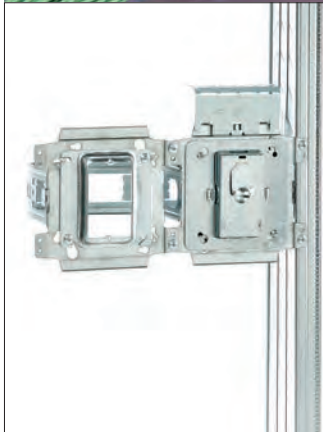


Fasteners

BLF-14

# Spring steel fasteners



**B-Line**  
by **EATON**



# Energizing a world that demands more.

Discover today's Eaton.

## Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.



**EATON**

*Powering Business Worldwide*



## We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of \$22 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.



## Eaton's electrical business

### Eaton is a global leader with expertise in:

- Power distribution and circuit protection
- Backup power protection
- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
- Control and automation
- Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

[Eaton.com](http://Eaton.com)

# Introduction

---

## The support you rely on.

Improving efficiency during installation with maximum return on investment.

An application is only as strong as its support systems. It's not only important to have reliable power, but determining how that power is distributed – whether in commercial, industrial or data center applications – is critical for efficiency. B-Line continues to be the brand for systems that effectively protect, connect and enclose engineered facility subsystems, keeping your processes running and costs down. From cable tray systems and strut systems to spring steel fastener solutions, the B-Line business is focused on innovative solutions.

Within this Spring Steel Fastener catalog, you will find several innovative, time-saving solutions that help drive your bottom line. Below are just a few of our most recent innovative additions.

- J-Hook color ID system that help verify cables are running in their correct, designated pathways. For more information, visit [www.cooperbline.com/color-id](http://www.cooperbline.com/color-id).
- BB8 Series box mounting bracket with integrated cable containment for lower installed costs. For more information, visit [www.cooperbline.com/BB816](http://www.cooperbline.com/BB816).
- Ruff-IN™ pre-fab systems that can save up to 75% during installation. For more information, visit [www.cooperbline.com/ruff-in](http://www.cooperbline.com/ruff-in).
- Rapid Ring™ self-adjusting pre-fab ring that installs in as little as 15 seconds. For more information, visit [www.cooperbline.com/rapidring](http://www.cooperbline.com/rapidring).
- KwikWire™ hanging system and accessories that help save time during installation. For more information, visit [www.cooperbline.com/kwikwire](http://www.cooperbline.com/kwikwire).
- To view more, visit [www.cooperbline.com/laborsavings](http://www.cooperbline.com/laborsavings).
















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Phone: (800) 569-3660  
[www.cooperbline.com/contactca](http://www.cooperbline.com/contactca)



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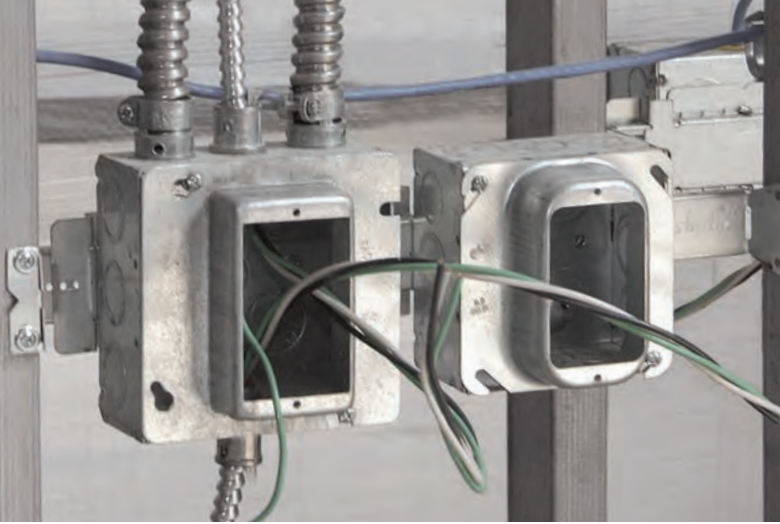
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Website: [www.bline.com](http://www.bline.com)

# Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



**B-Line's Ruff-IN product offering continues to expand with product and assembly options.  
For the latest additions, visit [www.cooperblineline.com/ruff-in](http://www.cooperblineline.com/ruff-in).**



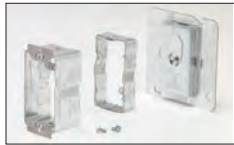
## Complete Pre-Fab Offering

Choose the pre-fab offering below that best fits your needs:

### Basic Ruff-IN

Offering Contents: Bracket, Box, Mud Ring, Ground Wire

- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See pages 5 & 6)



### Ruff-IN with Wiring Devices and/or MC Cable Whips

Offering Contents: Basic Ruff-IN with Wiring Device, Protective Cover Plates, and MC Cable whip with connector(s)

- Assemblies are pre-wired for quick plug and-play installation using Wago™<sup>†</sup> or wire nut connectors.
- Wiring Device's ArrowLink™ connector offers additional labor savings with its plug in feature. (See page 4 for more details)
- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



### Total Ruff-IN™

Perfect for a contractor that desires take-off services and B-Line engineering support

- Perfect for a contractor interested in trying pre-fab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.



<sup>†</sup> Wago™ is a trademark used by WAGO® Kontakttechnik GmbH & Co. KG

# Ruff-IN™ Pre-Fab

## Distributor Quick Ship Program

Next Day Shipping Available on

12 Ruff-In Assemblies & 4 Rapid Ring™ Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- Ask your B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.

### Ruff-IN Quick Ship Pre-Fab Assemblies

Part #	UPC #	Max. Order Qty.
<b>BBF Series Floor-mount</b>		
BBF18-1104DA	78205154072	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BBF18-1104D	78205154065	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BBF18-1124DA	78205155199	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BBF18-1124D	78205154176	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
<b>Double-Sided Box Support</b>		
BB76-1104DA	78205155200	100
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB76-1104D	78205138768	25
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB76-1124DA	78205154049	50
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB76-1124D	78205138771	25
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
<b>Telescoping Slider Bracket</b>		
BB216TS-1104DA	78205139289	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB216TS-1104D	78205138619	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB216TS-1124DA	78205139292	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB216TS-1124D	78205138621	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		



BBF18-1104DA



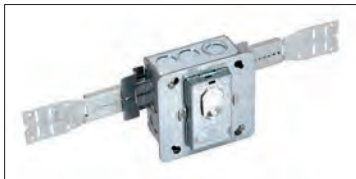
BB216TS-1104D



BB76-1104D

## Rapid Ring™ Quick Ship Pre-Fab Assemblies

Part #	UPC #	Max. Order Qty.
BB216TS-1RR4DA 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, stranded ground wire	78205176294	50
BB216TS-1RR4D 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, solid ground wire	78205176295	50
BB216TS-2RR4DA 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, stranded ground wire	78205176296	50
BB216TS-2RR4D 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, solid ground wire	78205176297	50



**Telescoping  
Slider Bracket  
with Rapid Ring**



# Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



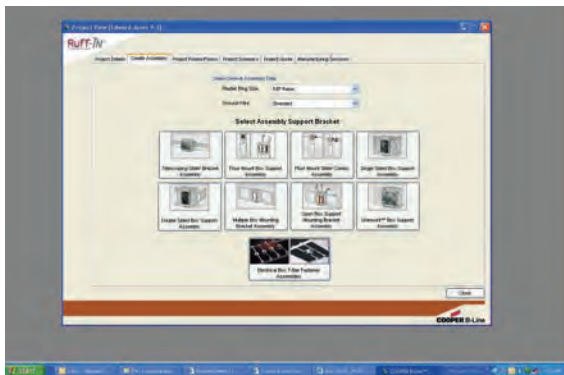
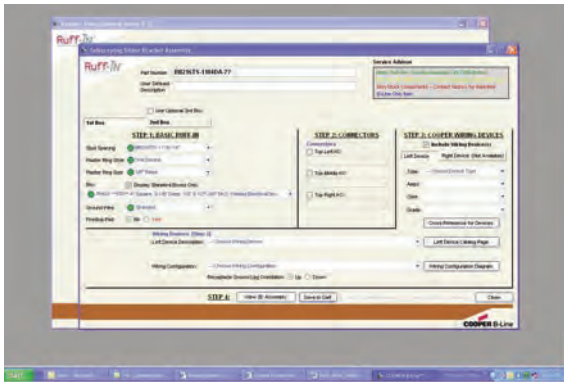
**B-Line's Ruff-IN Configurator** program helps simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

## Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using B-Line's Ruff-IN pre-fabricated wiring assemblies today!

For more information, visit [www.cooperbline.com/ruff-in](http://www.cooperbline.com/ruff-in).

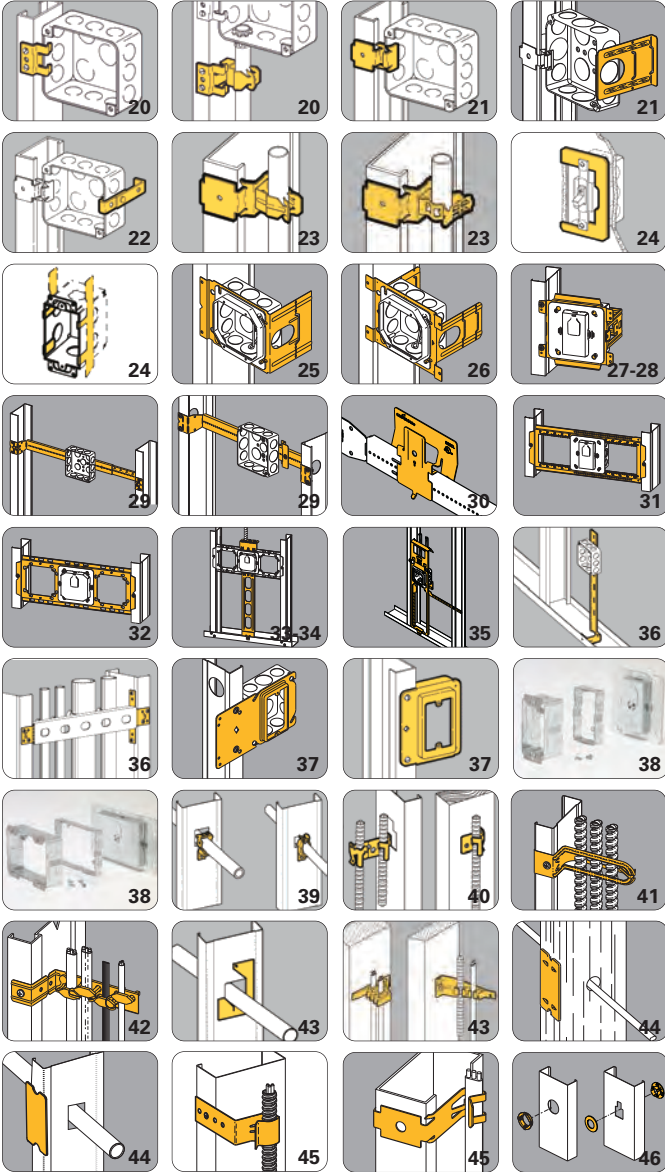


See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

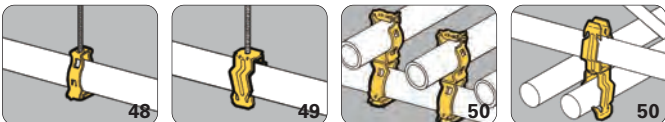
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## Wall Studs

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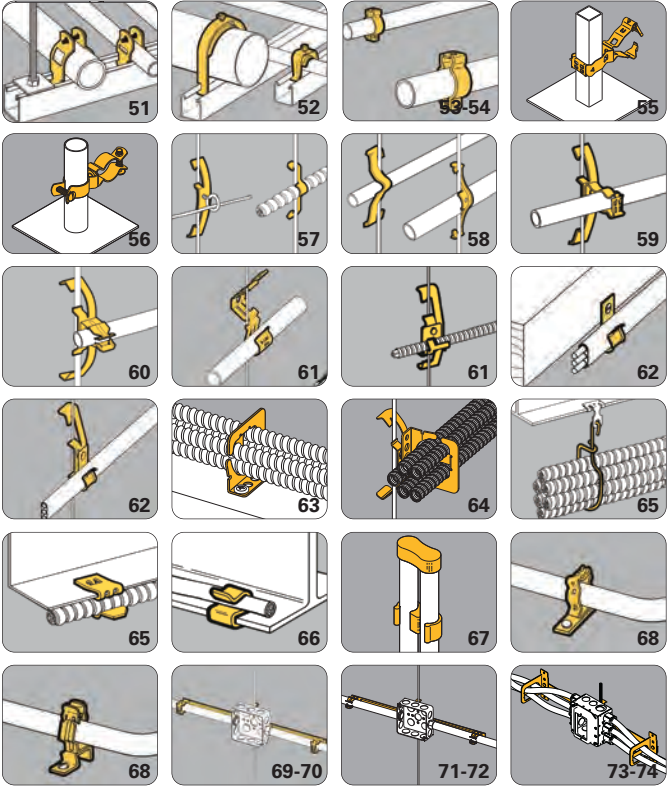


## Conduit & Cable



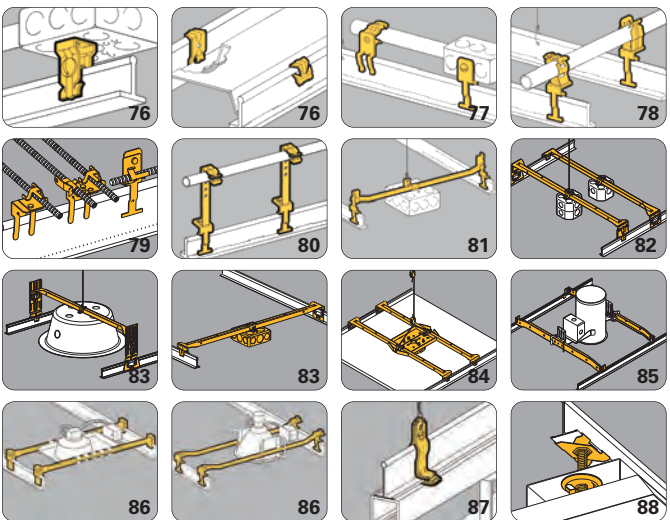
# Pictorial Index

## Conduit & Cable



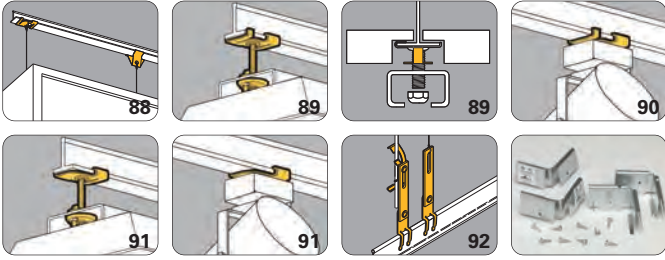
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## Acoustical Tee

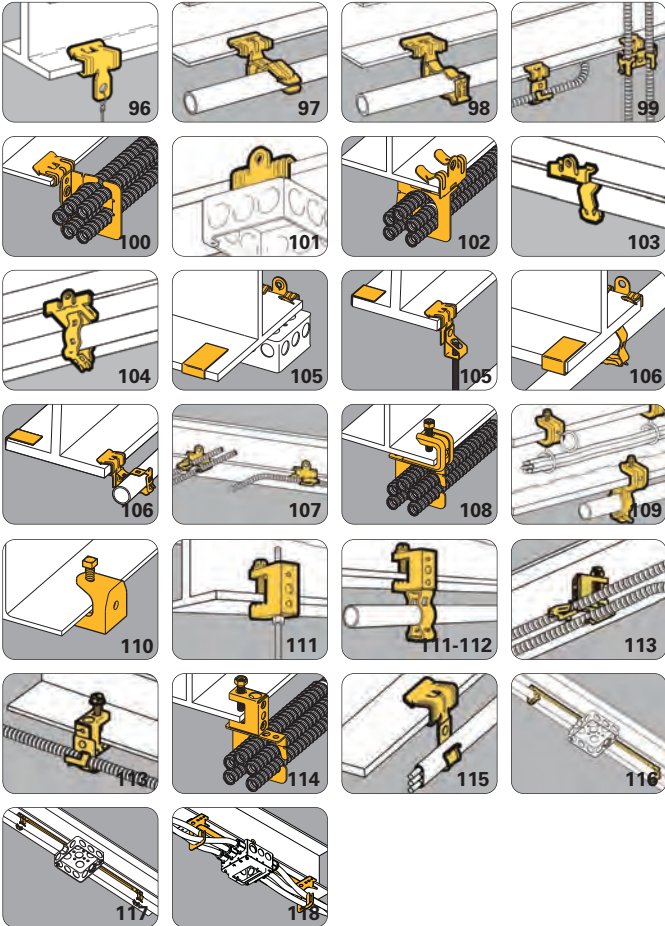


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## Acoustical Tee



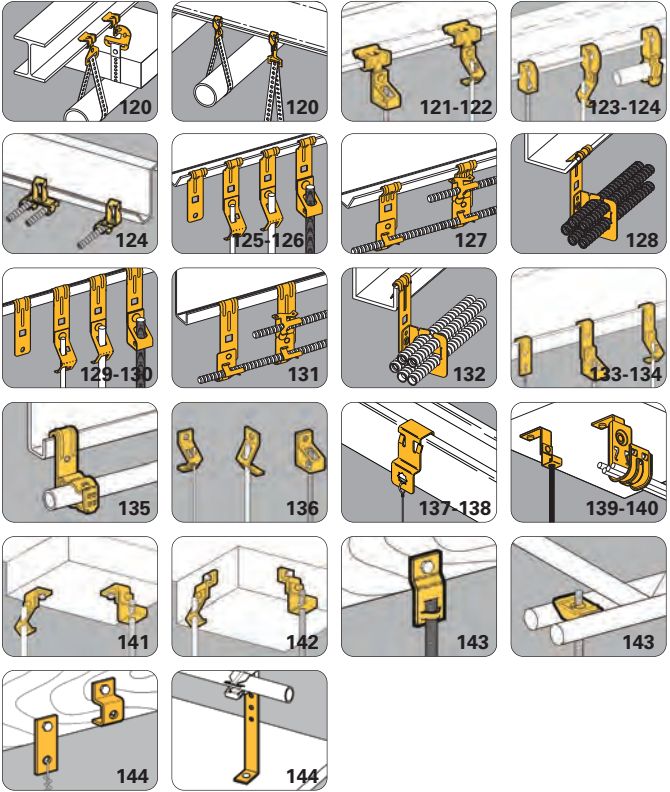
## Beams





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## Hangers



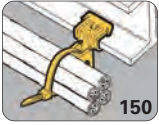
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## Lathers Channel

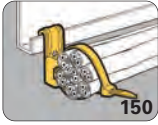


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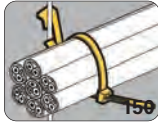
## Communication & Low Voltage



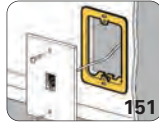
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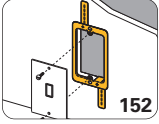
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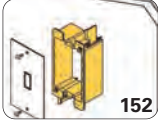
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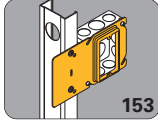
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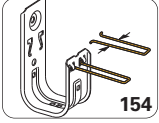
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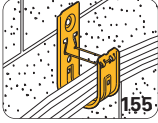
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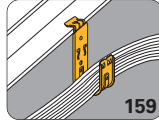
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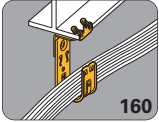
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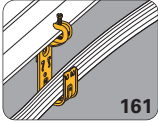
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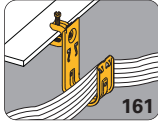
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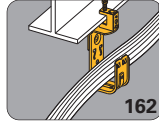
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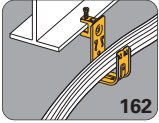
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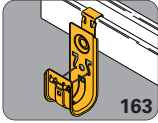
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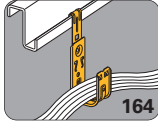
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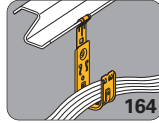
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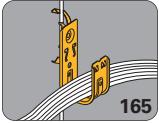
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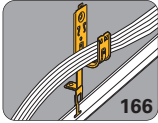
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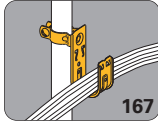
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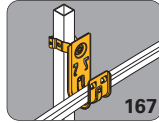
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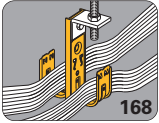
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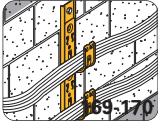
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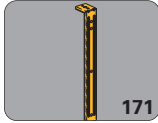
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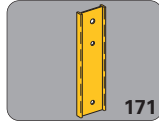
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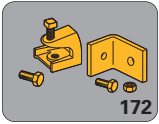
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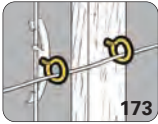
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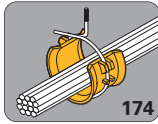
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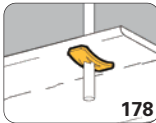


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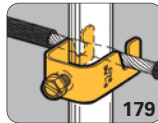
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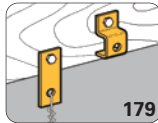
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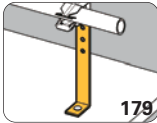
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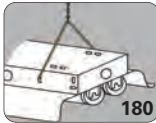
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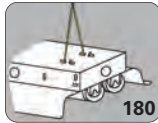
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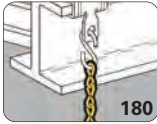
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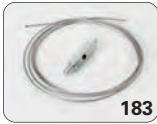
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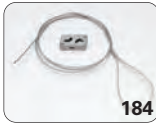
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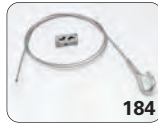
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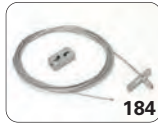
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# Pictorial Index

## Anchors

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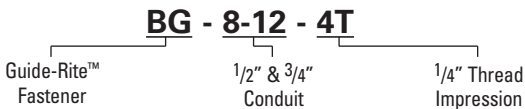
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# Part Numbering Guide

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

<b>BG - 8-12 - 4T</b>		
<b>Family</b>	<b>Size</b>	<b>Suffix</b>
A Series - Anchors	Based on 16th	AS - Anchor Strap
* B Series - Pipe Strap	of an inch	BL - Equipment Blue
BA - Acoustical Tee Component	1 - 1/16"	BN - Brass Nut
BB - Box Attachment	2 - 1/8"	BR - Brown
BC - Beam Clamp	4 - 1/4"	BW - Bright White
* BCH - Cable Hook	5 - 5/16"	CW - Computer White
* BCS/BES - Conduit Spacer	6 - 3/8"	D - Deep Box
BD - Deck Attachment	8 - 1/2"	FB - Flat Black
* BE - Edge Attachment	9 - 9/16"	GR - Green
BF - Flange Attachment	12 - 3/4"	H - Hanger
* BG - Guide-Rite™ Fastener	16 - 1"	LH - Less Hardware
BH - Hanger Attachment	20 - 1 1/4"	LN - Less Nut
BK - KwikWire	24 - 1 1/2"	LS - Less Stud
BL - Conduit Hangers (mini's)	32 - 2"	OR - Orange
BM - Miscellaneous	64 - 4"	R - Right Angle
BN - Push Nuts		RR - Regal Red
* BP - Push Type Fasteners		S - Stud
* BPC - Break Apart Straps		T - Threaded
* BR - Bridle Rings		TG - Telco Gray
BRC - Cable Fastener		W - White
* BRS - Bridle Ring Saddle		WBN - White /Brass Nut
BT - Installation Tools		WN - Wing Nut
* BU - Universal Beam Attachment		YL - Safety Yellow
BW - Bat Wing Fastener		4T - 1/4" Thread Imp.
BX - FMC Support		

\* The data in the size column only applies to these product families.





# Materials

Steel	Specification
High Carbon Cold Rolled	ASTM A684, AISI 1055
Electrolytic Zinc Coated	ASTM A591
Pre-Galvanized	ASTM A653

## Steel

B-Line spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into B-Line products.

## Heat Treatment

B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

## Load Data

The design load ratings for B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

## Quality Assurance

B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.

# Part Numbering Guide

Finish	Specification
Zinc-Phosphate	MIL-P-16232 Type Z
Electro-galvanized Zinc	ASTM B633
Pre-Galvanized Zinc	ASTM A653, G90
Gloss White Paint	Acrylic Enamel

## Zinc Phosphate

B-Line spring steel fasteners receive a coating\* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for B-Line's spring steel fasteners is Zinc Phosphate.

\*At least 1000 milligrams of zinc phosphate per square foot.

## Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

## Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

## Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into B-Line products.

The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

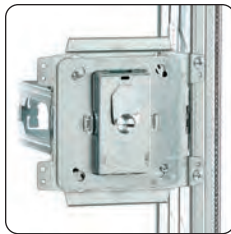
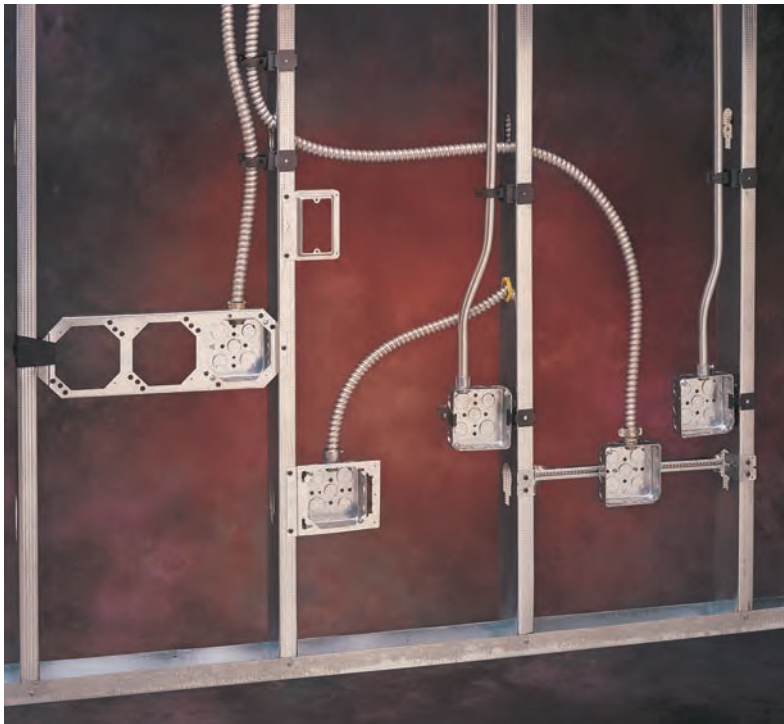
During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

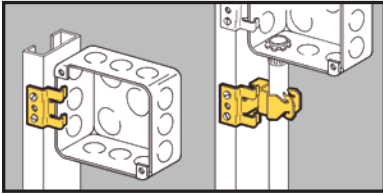
Pre-galvanized steel is recommended for indoor use in dry areas.

**CAUTION: Do not use B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.**

# Wall Studs

Wall Studs





- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite design.
- BP series features push-type design.

## Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118145	<b>BB1</b>	Electrical Box Support Clip	100

## Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118420	<b>BG-6-B1 *</b>	3/8"	100
781011 18475	<b>BG-8-12-B1</b>	1/2", 3/4"	100
781011 18555	<b>BG-16-B1</b>	1"	100

Patent #4958792

- \* BG-6 will accept the following range  $\varnothing$ .420 -  $\varnothing$ .675:  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

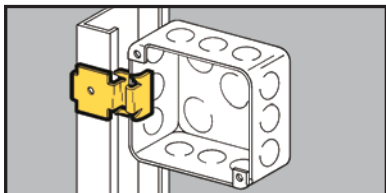
## Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19245	<b>BP-8-B1</b>	1/2" EMT	100
781011 19345	<b>BP-12-B1</b>	3/4" EMT, 1/2" IMC, Rigid	100
781011 19440	<b>BP-16-B1</b>	1" EMT, 3/4" IMC, Rigid	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

## Wall Studs

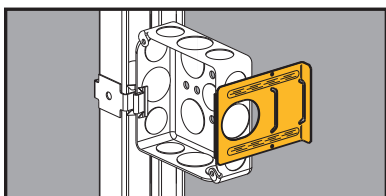


- Attaches electrical boxes (requiring plaster rings) to most metal studs.
- Box mounts flush to back of drywall.
- Simply installed with a hammer.

### Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118270	<b>BB9</b>	Electrical Box Support	100



- Provides far-side support for electrical boxes in 2<sup>1</sup>/<sub>2</sub>" thru 6" studs.
- Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.

### Adjustable Box Stabilizers



BB12



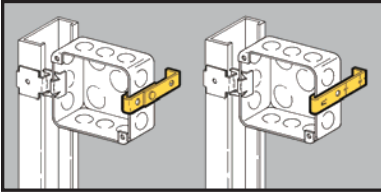
BB12-6



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101192876	<b>BB12</b>	2 <sup>1</sup> / <sub>2</sub> " thru 4"	100
78101192879	<b>BB12-6</b>	6"	100

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- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.

## Box Stabilizer



BF1-96



BF1-64



BF1-56



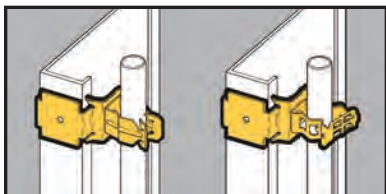
BF1-40



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118320	<b>BF1-40</b>	2 <sup>1</sup> / <sub>2</sub> "	100
78101118325	<b>BF1-56</b>	3 <sup>1</sup> / <sub>2</sub> "	100
78101118330	<b>BF1-64</b>	4"	100
78101118335	<b>BF1-96</b>	6"	100

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These products are designed for positioning only. No load rating.*

# Wall Studs



- Attaches conduit to most metal studs.
- BG Series features Guide-Rite design.
- BP Series feature push-type design.

## Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118425	<b>BG-6-B5 *</b>	3/8" or BX	100
78101118480	<b>BG-8-12-B5</b>	1/2", 3/4"	100
78101118560	<b>BG-16-B5</b>	1"	100
78101118645	<b>BG-20-B5</b>	1 1/4"	50

Patent #4958792

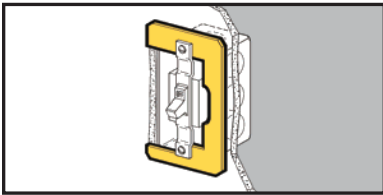
- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

## Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119250	<b>BP-8-B5</b>	1/2" EMT	100
78101119350	<b>BP-12-B5</b>	3/4" EMT, 1/2" IMC, Rigid	100
78101119445	<b>BP-16-B5</b>	1" EMT, 3/4" IMC, Rigid	100

Read safety/installation instruction sheets in packages before use.  
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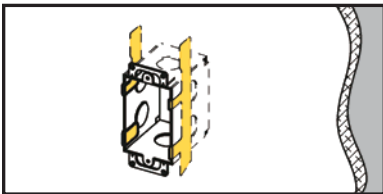


## Retainer Leveler

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized

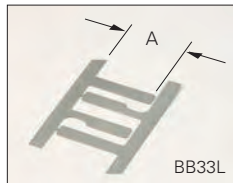
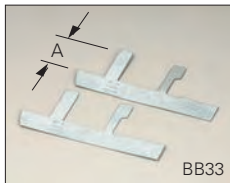


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118215	<b>BB32</b>	Adds Rigidity to Oversize Wall Openings	100



## Box Support

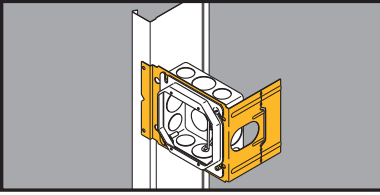
- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- Finish: Pre-Galvanized



UPC/Part Number	Catalog Number	Description	Length A	Box Qty.
78101101138	<b>BB33</b>	Box Support	1 1/2"	100 pr.
78101104936	<b>BB33L</b>	Long Leg Box Support	2 1/2"	100

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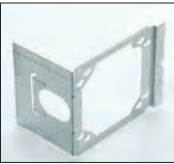
# Wall Studs



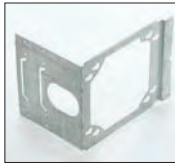
## Box Support Brackets



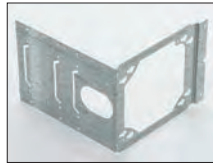
- Improved far-side support stands up during drywall installation and out performs competitor brackets.
- Supports 4" or 4<sup>11</sup>/<sub>16</sub>", square boxes.
- Brackets may be piggy-backed in series.
- Finish: Pre Galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.



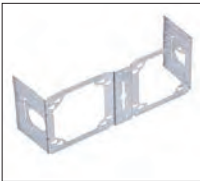
BB4-23



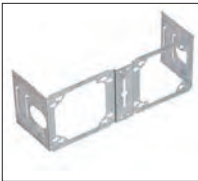
BB4-4



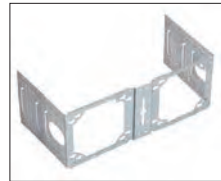
BB4-6



BB4-23D



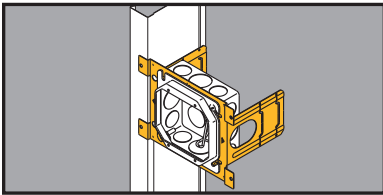
BB4-4D



BB4-6D

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118190	<b>BB4-23</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
78101118200	<b>BB4-4</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
78101118202	<b>BB4-6</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
79903848375	<b>BB4-23D</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
79903848376	<b>BB4-4D</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
79903848377	<b>BB4-6D</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50

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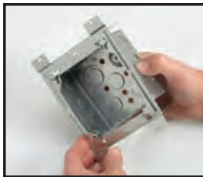
## Double-Sided Box Support Bracket w/ Marty-Mouse™ Ears



1. Bracket is shipped with ear tabs in the open position



2. Insert box screws into open slots



3. When plaster ring is installed, the ear tabs are bent down into the closed position



4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



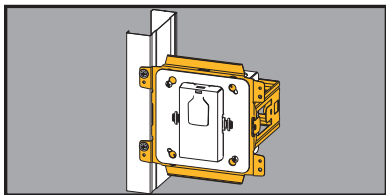
- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty Mouse™ ears feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out out performs competitor brackets.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-Galvanized

UPC/Part Number	Catalog Number	Stud Size	Box Qty.
78205138645	<b>BB73</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
78205138717	<b>BB74</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
78205138759	<b>BB76</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	25

Patent # 5595362

Read safety/installation instruction sheets in packages before use.  
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# Wall Studs

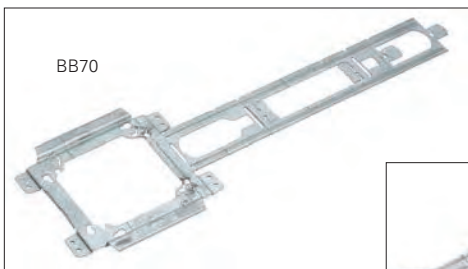


- Interlocking wrap-around design provides extra rigidity.
- Supports most standard 1-gang and 2-gang US and Canadian boxes and/or plaster rings 4" SQ., 4<sup>11/16</sup>" SQ., and 5" SQ. on either side of the stud.

## Box Support Brackets

Available August 2014

- Adjustable for varying stud depths (2<sup>1/2</sup>" to 6").
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Integral mounting tabs for attaching plaster rings.
- Multiple brackets may be ganged together.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box, mud ring, and pre-wired devices.
- Finish: Pre Galvanized.
- Patent Pending



BB70

BB70E\*  
(Sold separately,  
must be used  
with BB70)



See following page for various product information.

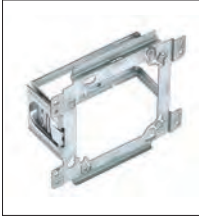
UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
79903856399	<b>BB70</b>	2 <sup>1/2</sup> " - 4"	50
79903856400	<b>BB70E*</b>	5 <sup>1/2</sup> " - 6"	50



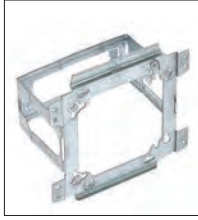
Can be used with BBCC (containment clip) and BBFS-18 (floor stand) See pages 33 & 34.

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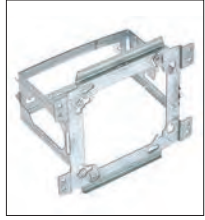
## Bent For Various Depths



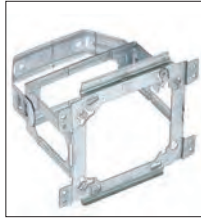
2 1/2"



3 5/8"



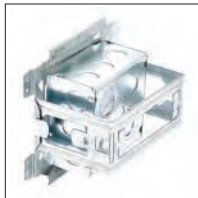
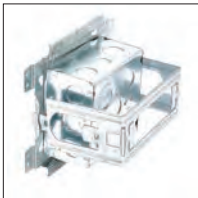
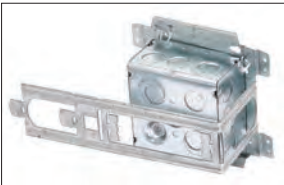
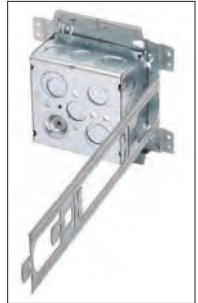
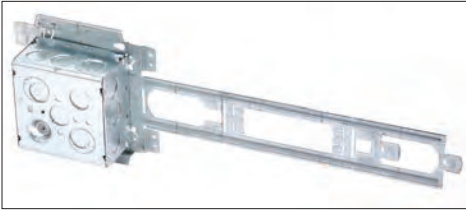
4"



6"

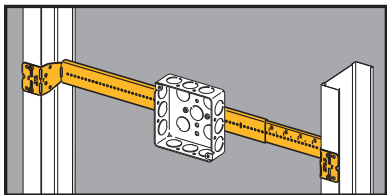
For 5 1/2" depth, snap the BB70E into the next notch on the bracket side

## Bending Bracket For 3 5/8" Depth



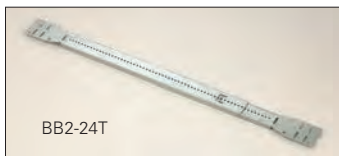
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# Wall Studs



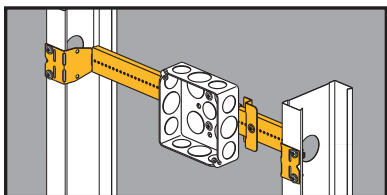
- Completely adjustable - fits a range of stud spacings and 1 1/2" or 2 1/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized

## Telescoping Box Mounting Bracket



UPC/Part Number	Catalog Number	Metal Stud Spacing	Box Qty.
78101104256	<b>BB2-16T</b>	11" to 18"	50
78101101664	<b>BB2-24T</b>	15" to 26"	50

Licensed under Patent #5386959 • Patent #5209444



- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

## Telescoping Slider Bracket



BB2TS

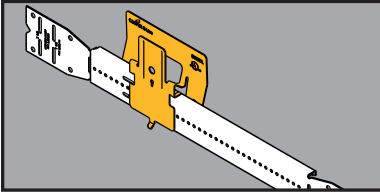


UPC/Part Number	Catalog Number	Stud Spacing	Box Qty.
78205138614	<b>BB216TS</b>	11" to 18"	20
78205138628	<b>BB224TS</b>	15" to 26"	20
78205138613	<b>BB2TS</b>	Slider Bracket Only	50

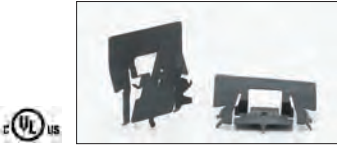
Patent # 7,472,875

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.





## CROC-LOK™ Box Mounting Bracket



- Designed for pre-fab.
- Outlet boxes mount to the CROC-LOK with single screw.
- CROC-LOK box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables CROC-LOK assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN™ brochure for pre-fab box assemblies.

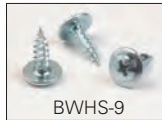
UPC/Part Number	Catalog Number	Description	Stud Spacing	Box Qty.
78205151291	<b>BB2CL</b>	CROC-LOK only	N/A	50
78205151292	<b>BB216TCL</b>	BB216T with CROC-LOK	11" - 16"	20
78205151293	<b>BB224TCL</b>	BB224T with CROC-LOK	15" - 24"	20

Note:

U.S. Patent # 8,403,277

Secures to B-Line BB2-16T and BB2-24T telescoping brackets only. For a standard 2<sup>1</sup>/<sub>8</sub>" deep box, the stud depth must be 3<sup>1</sup>/<sub>2</sub>" or greater. For a shallow 1<sup>1</sup>/<sub>2</sub>" deep box, the stud depth must be 2<sup>1</sup>/<sub>2</sub>" or greater.

## Mounting Screws

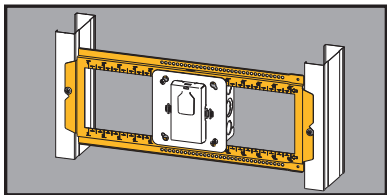


UPC/Part Number	Catalog Number	Description	Box Qty.
78101101675	<b>BWHS-9</b>	#8 x 9/16" Sheet Metal Screw	1000
78101104925	<b>BWHS-9D</b>	#8 x 9/16" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



## Open Box Mounting Bracket

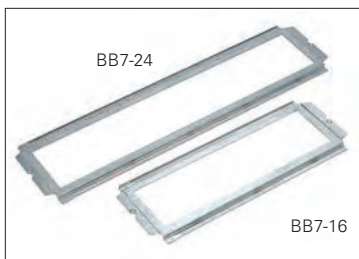
Available August 2014



- Open box support allows for adjustability of box position between studs.
- Supports most US and Canadian boxes and/or plaster rings 4" SQ., 4<sup>11</sup>/<sub>16</sub>" SQ., 5" SQ., and multi-gang boxes.

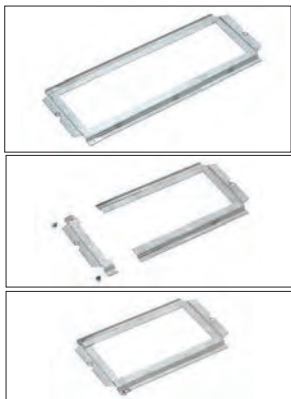
- Fits up to 1<sup>1</sup>/<sub>2</sub>" wide studs 16" to 24" on center.
- Compatible with Rapid Ring™ & adjustable plaster rings.
- Field cut to adjust to non-standard stud spacings.
- Stamped markings at 1/4", 1/2", and 1" increments to allow the installer to easily locate the desired box position.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs



UPC/Part Number	Catalog Number	Description	Box Qty.
78205145325	<b>BB7-16</b>	16" Stud Spacing	25
78205145328	<b>BB7-24</b>	24" Stud Spacing	25

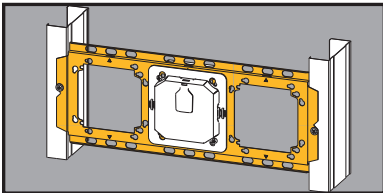
Can be cut on a mark to make shorter length brackets.



Can be used with BBFS-18 (floor stand)  
See pages 33 & 34.



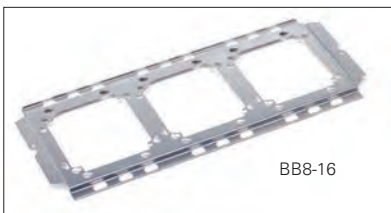
Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



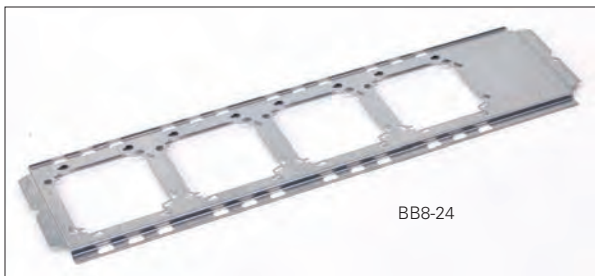
## Box Mounting Bracket



- Increased strength and rigidity help withstand the stress of drywall installation.
- Supports most US & Canadian boxes and plaster rings 4" SQ. and 4<sup>11</sup>/<sub>16</sub>" SQ.
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending



BB8-16

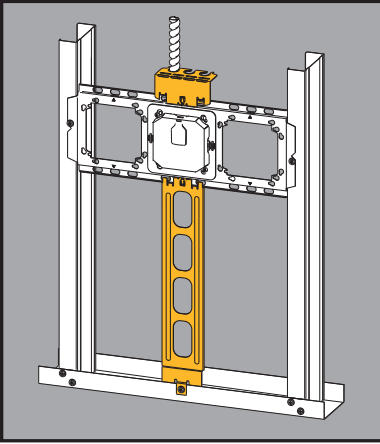


BB8-24

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102898	<b>BB8-16</b>	16" Stud Spacing	25
78101102900	<b>BB8-24</b>	24" Stud Spacing	25

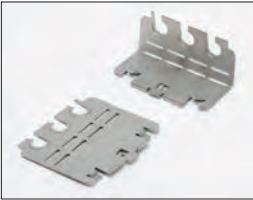
*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs

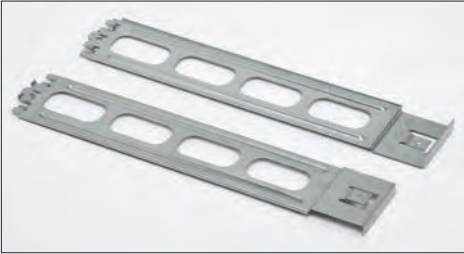


- Bracket accessories require no tools to install.
- BBCC cable containment clip provides first means of support for MC cable.
- BBFS-18 floor stand ensures consistent box height and eliminates need to measure for proper install height.
- Can be used with BB7 and BB8 brackets. See pages 27, 31, and 32.
- Pre-galvanized finish.

## Box Mounting Bracket Accessories



BBCC



BBFS-18

UPC/Part Number	Catalog Number	Description	Box Qty.
79903851597	<b>BBFS-18</b>	Floor Stand	25
79903851598	<b>BBCC</b>	.439" - .750" OD MC Cable	50

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

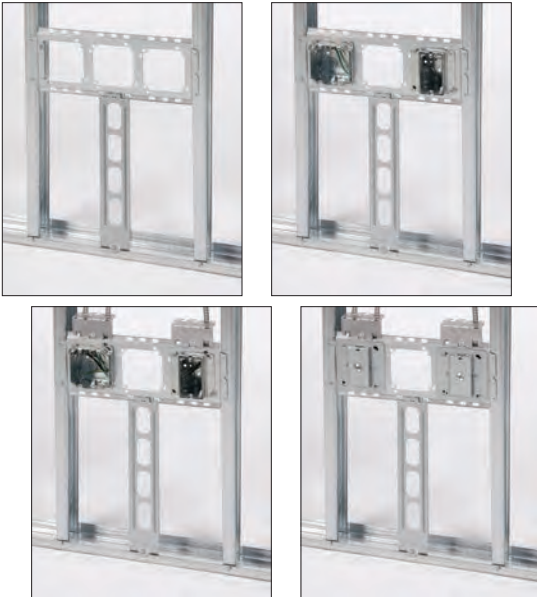
## Box Mounting Bracket Accessories con't.



BB8-16 Installed

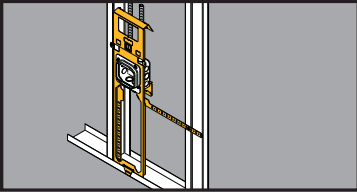


BBFS-18 & BBCC Installed (Can be used with BB7 or BB8 brackets)



*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



## Floor-Mount Box Support



BBF15



BBFC



BBF18



BBF24



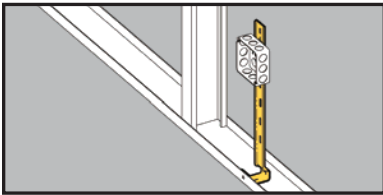
BBFxxC

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accommodates 6", 5 1/2", 3 5/8", and 2 1/2" stud depths.
- Fold-out tab built-in to attach floor stand to stud if desired.
- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- Patented Marty Mouse™ ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Box Center Height	Box Qty.
78205152944	<b>BBF15</b>	15" Floorstand	25
78205152945	<b>BBF18</b>	18" Floorstand	25
78205152946	<b>BBF24</b>	24" Floorstand	25
78205152947	<b>BBFC</b>	18" Floorstand	25
78205152948	<b>BBF15C</b>	15" Floorstand with Cable Clip	25
78205152949	<b>BBF18C</b>	18" Floorstand with Cable Clip	25
78205152950	<b>BBF24C</b>	24" Floorstand with Cable Clip	25

Patent #5595362  
Patent #7956285 B2

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

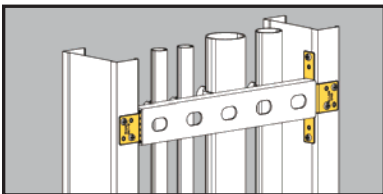


## Floor Mounted Box Support

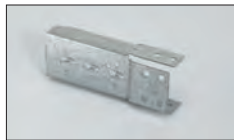


- See BBF Series for a better solution.
- Provides support for electrical box from floor track or concrete forms.
- 18" length with break-away feature for 12" or 16" box mounting.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101103623	<b>BB-18</b>	Floor Mounted Box Support	50



## Strut Mounting Brackets

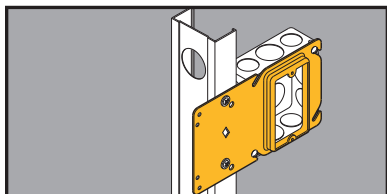


- Attaches 13/16" strut, 1 1/2" lathers channel, 1/2" EMT or 3/4" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101658	<b>BMB1</b>	Strut Mounting Bracket	25 pr.

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Wall Studs



- Uni-Mount provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

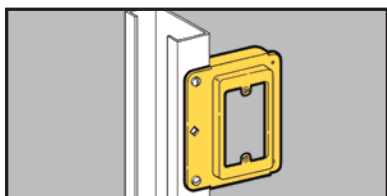
## Uni-Mount™ Box Support/Cover Plate Mounting Bracket

Single Gang  
BB40 Series



Double Gang  
BB45 Series

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	<b>BB40-08</b>	1/2" Raise	50
78205122771	<b>BB40-10</b>	5/8" Raise	50
78205122772	<b>BB40-12</b>	3/4" Raise	50
78205122773	<b>BB45-08</b>	1/2" Raise	50
78205122774	<b>BB45-10</b>	5/8" Raise	50
78205122775	<b>BB45-12</b>	3/4" Raise	50



## Cover Plate Mounting Bracket



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Can be piggy-backed.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	<b>BB15</b>	Single Gang Stud Bracket	50

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



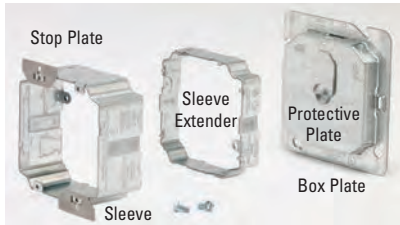
## Rapid Ring™ Self Adjusting Pre-Fab Ring

The Rapid Ring self-adjusting pre-fab plaster ring can help you win tight bids and beat the profit squeeze with its innovative 4-step installation. This revolutionary new pre-fab system installs in as little as 15 seconds per unit, compressing your project schedule, cutting operational costs and reducing onsite waste.

Because the Rapid Ring is a self-adjusting pre-fab ring, you'll never need to adjust a mud ring again. With a simple push of the Rapid Ring you're flush every time.



1. Remove protective plate.
2. Connect the wiring device.
3. Position the device assembly.
4. Push in the device assembly—and you're done!



For Use With Wiring Device Qty.	Electrical Box <sup>5</sup>	Box Plate <sup>1</sup> Cat. No.	Sleeve <sup>2,3</sup> Cat. No.	Sleeve Extender <sup>4</sup> Cat. No.
1	4" sq.	<b>B1RRP4C</b>	<b>B1RRR</b>	<b>B1RRE</b>
1	4 <sup>11</sup> / <sub>16</sub> " sq.	<b>B1RRP5C</b>	<b>B1RRR</b>	<b>B1RRE</b>
2	4" sq.	<b>B2RRP4C</b>	<b>B2RRR</b>	<b>B2RRE</b>
2	4 <sup>11</sup> / <sub>16</sub> " sq.	<b>B2RRP5C</b>	<b>B2RRR</b>	<b>B2RRE</b>
3	3-gang <sup>6</sup>	<b>B3RRPC</b>	<b>B3RRR</b>	<b>B3RRE</b>
4	4-gang <sup>7</sup>	<b>B4RRPC</b>	<b>B4RRR</b>	<b>B4RRE</b>

1. Protective plate included with box plate.
2. Wall thickness range: 1/2" min. to 1 1/4" max.
3. Stop plates included with sleeve.
4. Sleeve extender is an optional accessory to extend max. wall thickness range to 2" (order separately, mounting hardware included)
5. Minimum electrical box depth is 2 1/8"
6. Keyhole knockouts allow use on 2-gang electrical box.
7. Keyhole knockouts allow use on 3-gang electrical box.

Go to [www.cooperbline.com/rapidring](http://www.cooperbline.com/rapidring)

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



- Supports horizontal runs of conduit, flexible conduit, MC or AC cable through metal studs.
- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.

## Conduit/Cable Supports

Wall Studs



BG-x-H7



BP-x-H7  
(Not UL)



BX4-H7



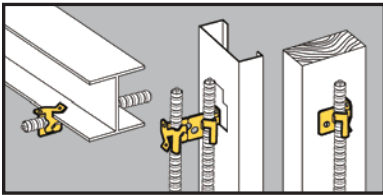
BX4M-H7  
(Not UL)



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101228	<b>BG-6-H7 *</b>	3/8", MC, AC, or FMC	100
78101110238	<b>BG-8-12-H7</b>	1/2" or 3/4"	100
Patent #4958792			
78101101227	<b>BP-8-H7</b>	1/2" EMT	100
78101101226	<b>BP-12-H7</b>	3/4" EMT 1/2" IMC, Rigid	100
78101101200	<b>BX4-H7</b>	MC, AC, or FMC	100
78101101205	<b>BX4M-H7</b>	MC, AC, or FMC	100

\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and  $5/16$  or  $3/8$  flexible conduit

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to studs or flanges up to 3/16" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

## Flexible Conduit/ Cable Fasteners



BX4M



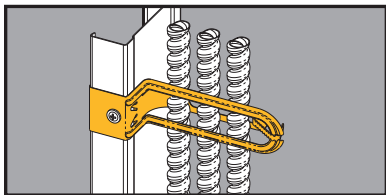
BX4MD



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101079	<b>BX4</b>	Single Runs	100
78101101080	<b>BX4M</b>	Double Runs	100
78101101224	<b>BX4MD</b>	Up to 4 Runs	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



## Cable Support



- Metal cable support can be used in plenum-rated areas.
- Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1<sup>1</sup>/<sub>4</sub>" from face of stud as required by NEC Article 300.4(D).

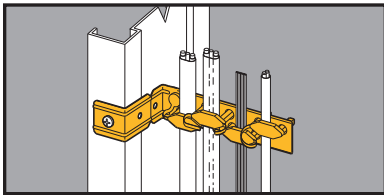
UPC/Part Number	Catalog Number	Description	Box Qty.
79903843761	<b>BRC6M</b>	Up to 3/4" FMC	100

Note: Canadian applications are limited to wood studs only.

Cable Size	Cable Type					
	Non-Metallic (NM)		Metal Clad (MC)		Armored Cable (AC)	
	Qty.	Dia.	Qty.	Dia.	Qty.	Dia.
14-2 w/ Grnd	8	.360	5	.439	5	.464
14-3 w/ Grnd	8	.307	5	.464	5	.483
14-4 w/ Grnd	8	.336	4	.494	4	.517
12-2 w/ Grnd	7	.410	5	.475	4	.498
12-3 w/ Grnd	8	.347	4	.505	4	.521
12-4 w/ Grnd	7	.381	4	.539	4	.557
10-2 w/ Grnd	6	.494	4	.542	4	.560
10-3 w/ Grnd	7	.422	4	.580	4	.588
10-4 w/ Grnd	NA	NA	3	.623	3	.632
8-2 w/ Grnd	4	.612	NA	NA	NA	NA
8-3 w/ Grnd	4	.565	NA	NA	NA	NA
6-2 w/ Grnd	4	.650	NA	NA	NA	NA
5/16 FMC			5 (.470 to .510 Dia.)			
3/8 FMC			4 (.560 to .610 Dia.)			
1/2 FMC			1 (.860 to .920 Dia.)			
3/4 FMC			1 (1.045 to 1.105 Dia.)			

The quantity of cables shown in the chart is the maximum. Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly). Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*



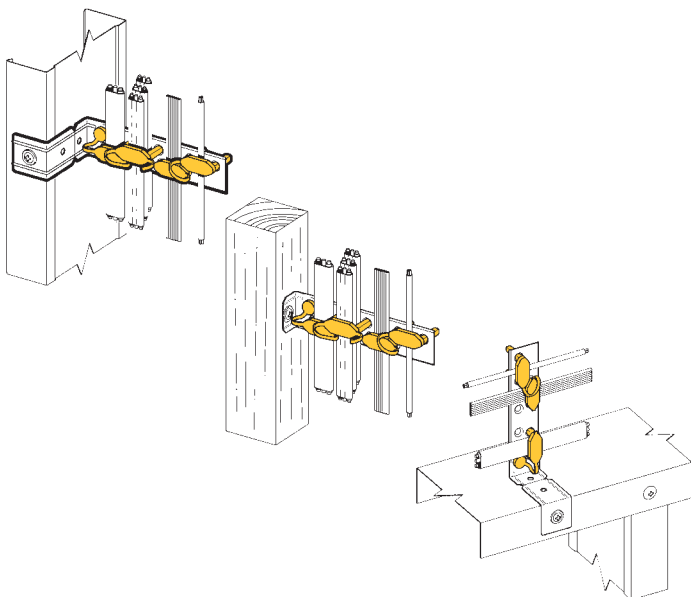
## Staple-Lok™ Multi-Purpose Cable Support



- Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

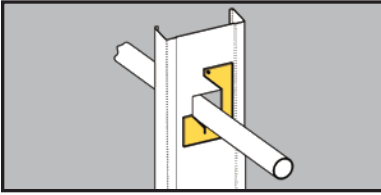
UPC/Part Number	Catalog Number	Cable Size	Box Qty.
78101103587	BRC4	Up to .500" O.D.	100

Patent #5587555



*Read safety/installation instruction sheets in packages before use.  
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# Wall Studs

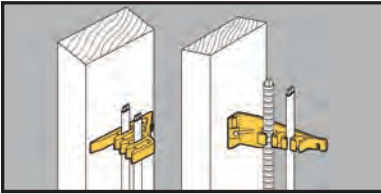


- Allows conduit, MC, AC, or FMC to be pulled through metal studs.
- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents rattling of conduit/cable.
- Finish: Pre-galvanized

## Conduit/Cable Supports



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101657	<b>BX82</b>	Up to 1"	100



- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

## Cable Fasteners



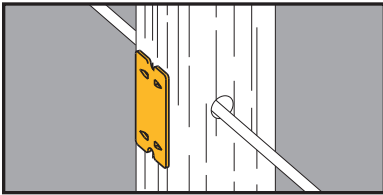
BRC1



BRC2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102941	<b>BRC1</b>	Wood Stud Cable Fastener	50
78101102941	<b>BRC2</b>	Furring Strip Cable Fastener	50

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

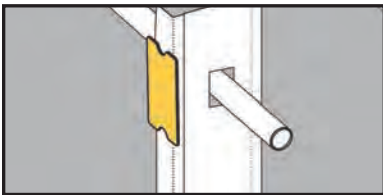


- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

## Nail Plates For Wood Studs



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104927	<b>BM3</b>	Nail Plate	100



- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.

## Nail Plates For Metal Studs

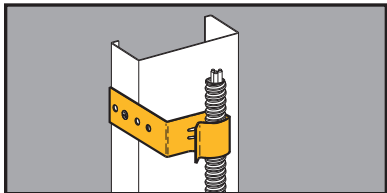


Just Peel Tape and Stick To Stud

UPC/Part Number	Catalog Number	Description	Box Qty.
78101126251	<b>BM3M</b>	Nail Plate	100

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Wall Studs



## Conduit Support



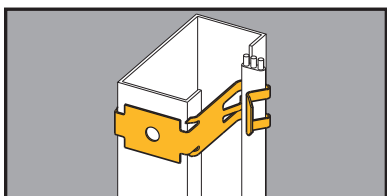
BB38



BB38D

- Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs.
- BB38 attaches MC/AC cable, 1/2" & 3/4" EMT to metal or wood studs.
- Eliminates the need for offset bending of conduit.
- Aligns conduit with standard box knockouts.

UPC/Part Number	Catalog Number	Box Depth	Box Qty.
78101104265	<b>BB38</b>	1 1/2"	100
78101195244	<b>BB38D</b>	2 1/8"	100



## Flexible Conduit/Cable Fasteners



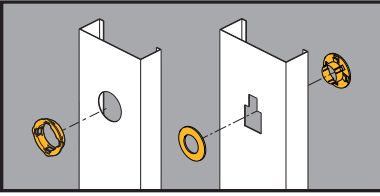
- Secures Romex<sup>®†</sup> sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119755	<b>BX5</b>	Secures Flexible Conduit or Cable to Metal or Wood Studs	100

†Romex<sup>®</sup> is a registered trademark used by Southwire<sup>®</sup> Company, Carrollton, Georgia.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.





## Metal Stud Grommet



- BM1 snaps into standard 1<sup>11</sup>/<sub>32</sub>" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



BM1



BM2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119100	<b>BM1</b>	Plastic Grommet	100
78101119102	<b>BM1M</b>	Plastic Grommet (Bulk Quantity)	100
78101104926	<b>BM2</b>	Universal Plastic Grommet	100

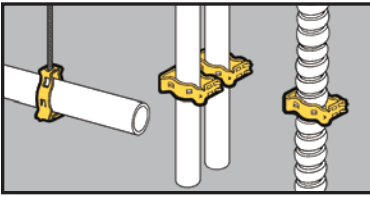
*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Conduit & Cable



Conduit & Cable

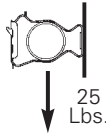




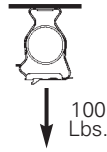
## Guide-Rite™ Conduit Fasteners



Clearance Hole  
For 1/4" Bolt



**Static  
Load  
Capacity**



- Supports 3/8" to 2" conduit.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Static Load Capacity:  
100 Lbs. - Vertical  
25 Lbs. - Horizontal

UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118350	<b>BG-6*</b>	3/8"	100
78101118355	<b>BG-8-12</b>	1/2", 3/4"	100
78101118360	<b>BG-16</b>	1"	100
78101118365	<b>BG-20</b>	1 1/4"	100
78101118360	<b>BG-24</b>	1 1/2"	100
78101118375	<b>BG-32</b>	2"	100



1/4"-20  
Thread Impression



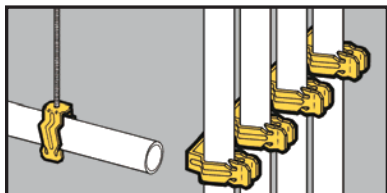
UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118380	<b>BG-6-4T*</b>	3/8"	100
78101118385	<b>BG-8-12-4T</b>	1/2", 3/4"	100
78101118390	<b>BG-16-4T</b>	1"	100
78101118395	<b>BG-20-4T</b>	1 1/4"	100
78101118400	<b>BG-24-4T</b>	1 1/2"	100
78101118405	<b>BG-32-4T</b>	2"	100

Patent #4958792

- \* BG-6 and BG-6-4T will accept the following range  $\varnothing.420 - \varnothing.675$ :  
1/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

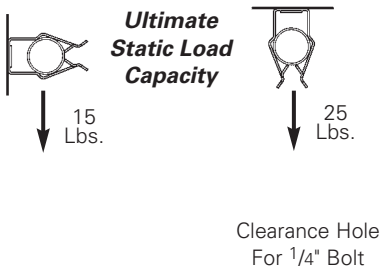
Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for 1/4" bolt or 1/4"-20 thread impression.
- **Ultimate Static Load Capacity:**  
25 Lbs. Vertical  
15 Lbs. Horizontal

## Push-Type Conduit Fasteners

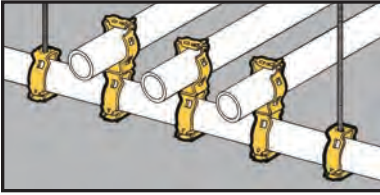


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119200	<b>BP-8</b>	1/2" EMT	100
78101119205	<b>BP-12</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119210	<b>BP-16</b>	1" EMT 3/4" IMC, Rigid	100

1/4"-20  
Thread Impression



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119215	<b>BP-8-4T</b>	1/2" EMT	100
78101119220	<b>BP-12-4T</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119225	<b>BP-16-4T</b>	1" EMT 3/4" IMC, Rigid	100



## Guide-Rite™ Conduit Trapeze Fasteners



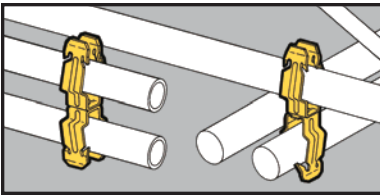
- For use with  $\frac{3}{8}$ " to 2" conduit.
- Guide-Rite Fastener provides for fast and easy installation with pliers.



- Note: Total load of trapeze must not exceed 100 Lbs.

UPC/Part Number	Catalog Number	Conduit To 1" Trapeze	Box Qty.
78101118615	<b>BG-16-G-6*</b>	$\frac{3}{8}$ "	100
78101118620	<b>BG-16-G-8-12</b>	$\frac{1}{2}$ ", $\frac{3}{4}$ "	100
78101118595	<b>BG-16-G-16</b>	1"	100
78101118600	<b>BG-16-G-20</b>	$1\frac{1}{4}$ "	50
78101118605	<b>BG-16-G-24</b>	$1\frac{1}{2}$ "	50
78101118610	<b>BG-16-G-32</b>	2"	50

\* BG-16-G-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and  $\frac{5}{16}$  or  $\frac{3}{8}$  flexible conduit



## Push-Type Conduit To Conduit Fasteners

- An ideal spacer between conduits.
- No installation tools required.



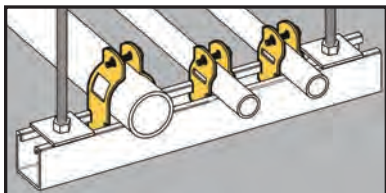
- **Ultimate Static Load Capacity:** 25 Lbs.

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118615	<b>BP-8-P-8</b>	$\frac{1}{2}$ " to $\frac{1}{2}$ "	100
78101118620	<b>BP-8-P-12</b>	$\frac{1}{2}$ " to $\frac{3}{4}$ "	100
78101118595	<b>BP-8-P-16</b>	$\frac{1}{2}$ " to 1"	100
78101118600	<b>BP-12-P-12</b>	$\frac{3}{4}$ " to $\frac{3}{4}$ "	100
78101118605	<b>BP-12-P-16</b>	$\frac{3}{4}$ " to 1"	100
78101118610	<b>BP-16-P-16</b>	1" to 1"	100

Note: For rigid conduit with BP series, use next size larger fastener ( $\frac{1}{2}$ " Rigid use BP-12).

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable

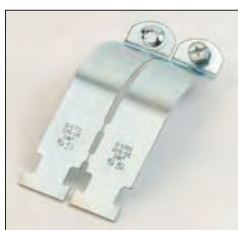


## Break-Apart Conduit Clamps

- Patented Multi-Grip design fits Rigid, IMC or EMT conduit.
- Convenient break-apart clamp features retained bolt and  $\frac{5}{16}$ " thread impression to eliminate handling of nuts and bolts.
- Finish: Pre-galvanized.
- Static Load Capacity: 200 lbs.



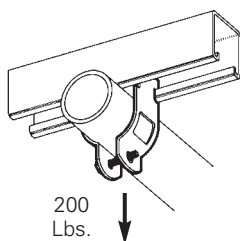
BPC-8 thru BPC-32



BPC-40 thru BPC-64



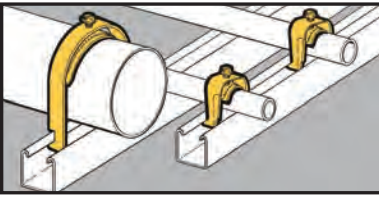
### Static Load Capacity



200  
Lbs.

UPC/Part Number	Catalog Number	Rigid or EMT Conduit Size	Box Qty.
78101101676	<b>BPC-8</b>	$\frac{1}{2}$ "	100
78101101677	<b>BPC-12</b>	$\frac{3}{4}$ "	100
78101101680	<b>BPC-16</b>	1"	100
78101101679	<b>BPC-20</b>	$1\frac{1}{4}$ "	50
78101101678	<b>BPC-24</b>	$1\frac{1}{2}$ "	50
78101101681	<b>BPC-32</b>	2"	50
78101103977	<b>BPC-40</b>	$2\frac{1}{2}$ "	50
78101103978	<b>BPC-48</b>	3"	50
78101103979	<b>BPC-56</b>	$3\frac{1}{2}$ "	25
78101103981	<b>BPC-64</b>	4"	25

Patent #4044428



## Conduit Strut Clamps



B1532S thru B1564S

B1506S  
thru  
B1524S



B1508  
thru  
B1520



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Conduit Size		OD Range Inches		Static Load Cap. Lbs.	Box Qty.
		EMT	Rigid	Min	Max		
78101163150	<b>B1508</b>	1/2"	--	--	--	200	100
78101163154	<b>B1512</b>	3/4"	1/2"	--	--	200	100
78101163157	<b>B1516</b>	1"	3/4"	--	--	300	100
78101163160	<b>B1520</b>	1 1/4"	1"	--	--	300	100
Note: Clamps without saddle are not recommended for flexible conduit or cable							
78205144495	<b>B1506S*</b>	3/8"*	--	.400	.630	200	100
78101163164	<b>B1508S</b>	1/2"	--	.250	.680	200	100
78101163168	<b>B1512S</b>	3/4"	1/2"	.500	.840	200	100
78101163171	<b>B1516S</b>	1"	3/4"	.750	1.050	300	100
78101163177	<b>B1520S</b>	1 1/4"	1"	1.125	1.315	300	100
78101163182	<b>B1524S</b>	1 1/2"	1 1/4"	1.375	1.660	400	50
78101163188	<b>B1532S</b>	2"	1 1/2"	1.875	2.200	400	50
78101163193	<b>B1534S</b>	--	2"	2.125	2.375	400	25
78101163199	<b>B1540S</b>	2 1/2"	2 1/2"	2.625	2.875	400	25
78101163205	<b>B1548S</b>	3"	3"	3.250	3.500	400	25
78101163211	<b>B1556S</b>	3 1/2"	3 1/2"	3.750	4.000	400	10
78101163215	<b>B1564S</b>	4"	4"	4.250	4.500	400	10

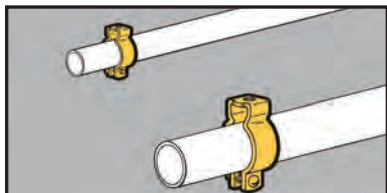
Patent #5022614

- \* B1506S will accept the following  
 AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4  
 MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4

Read safety/installation instruction sheets in packages before use.



# Conduit & Cable



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Finish: Zinc-Plated

## Conduit Hangers



With Retained Bolt  
And  
Thread Impression



UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119800	<b>BL1400*</b>	0	1/2"	1/2"	100
78101119801	<b>BL1410*</b>	1	3/4"	3/4"	100
78101119802	<b>BL1420*</b>	2	1"	1"	100



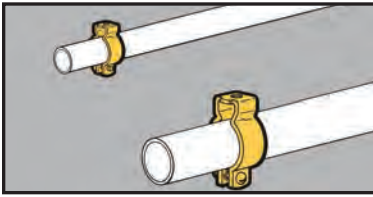
With Bolt And Nut



UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119803	<b>BL1425*</b>	2.5	1 1/4"	--	100
78101119804	<b>BL1430*</b>	3	1 1/2"	1 1/4"	100
78101119805	<b>BL1440†</b>	4	--	1 1/2"	50
78101119806	<b>BL1450†</b>	5	2"	2"	50
78101119807	<b>BL1460†</b>	6	2 1/2"	2 1/2"	25
78101119808	<b>BL1470†</b>	7	3"	3"	25
78101119809	<b>BL1480†</b>	8	3 1/2"	3 1/2"	10
78101119810	<b>BL1490†</b>	9	4"	4"	10

\* 9/32" mounting hole. † 11/32" mounting hole.

Read safety/installation instruction sheets in packages before use.



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel

## Stainless Steel Conduit Hangers



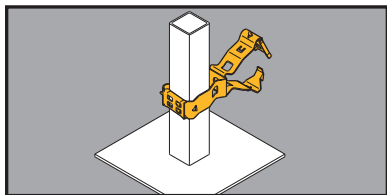
With Bolt And Nut

UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119800	<b>BL1400-SS4*</b>	0	1/2"	1/2"	100
78101119801	<b>BL1410-SS4*</b>	1	3/4"	3/4"	100
78101119802	<b>BL1420-SS4*</b>	2	1"	1"	100
78101119803	<b>BL1425-SS4*</b>	2.5	1 1/4"	–	100
78101119804	<b>BL1430-SS4*</b>	3	1 1/2"	1 1/4"	100
78101119805	<b>BL1440-SS4†</b>	4	–	1 1/2"	50
78101119806	<b>BL1450-SS4†</b>	5	2"	2"	50
78101119807	<b>BL1460-SS4†</b>	6	2 1/2"	2 1/2"	25
78101119808	<b>BL1470-SS4†</b>	7	3"	3"	25
78101119809	<b>BL1480-SS4†</b>	8	3 1/2"	3 1/2"	10
78101119810	<b>BL1490-SS4†</b>	9	4"	4"	10

\* 9/32" mounting hole. † 1 1/32" mounting hole.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



## Guide-Rite™ Conduit To Pedestal Support

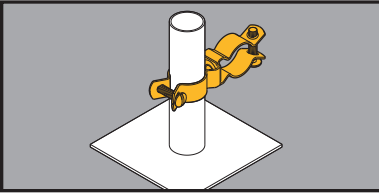
- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.



UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78205125589	<b>BG-8-12-G6*</b>	3/8"	100
78101188538	<b>BG-8-12-G812</b>	1/2" or 3/4"	100
78101118620	<b>BG-16-G-8-12</b>	1"	100
78205125594	<b>BG-8-12-G20</b>	1 1/4"	50
78205125595	<b>BG-8-12-G24</b>	1 1/2"	50
78205125597	<b>BG-8-12-G32</b>	2"	50

Patent #4958792

- \* BG-8-12-G6 will accept the following range  $\varnothing$ .420 -  $\varnothing$ .675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



## Conduit To Pedestal Support

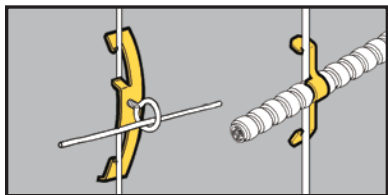
- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- Finish: Zinc-Plated



UPC/Part Number	Catalog Number	Trade Size	Conduit Rigid	Conduit Size EMT	Box Qty.
78205125599	<b>BL1410-L1400</b>	0	1/2"	1/2"	50
78205125601	<b>BL1410-L1410</b>	1	3/4"	3/4"	50
78205125602	<b>BL1410-L1420</b>	2	1"	1"	50
78205125603	<b>BL1410-L1425</b>	2.5	–	1 1/4"	50
78205125607	<b>BL1410-L1430</b>	3	1 1/4"	1 1/2"	50
78205125612	<b>BL1410-L1440</b>	4	1 1/2"	–	25
78205125614	<b>BL1410-L1450</b>	5	2"	2"	25
78205125617	<b>BL1410-L1460</b>	6	2 1/2"	2 1/2"	10
78205125618	<b>BL1410-L1470</b>	7	3"	3"	10
78205125619	<b>BL1410-L1480</b>	8	3 1/2"	3 1/2"	5

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



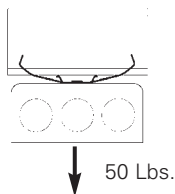
- BW2 and BW6 support #10-24 or 1/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.

## Rod & Wire Fasteners



UPC/Part Number	Catalog Number	Drop Rod/ Wire Size	Flange Thickness	Box Qty.
78101119700	<b>BW2</b>	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78205140156	<b>BW2S</b>	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78101195516	<b>BW6</b>	3/8" plain or threaded rod	3/8" - 7/16"	100
78205140157	<b>BW6S</b>	3/8" plain or threaded rod	3/8" - 7/16"	100

Conduit & Cable



**Static Load  
Capacity**



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119705	<b>BW4</b>	Multi-size Wire Fastener	100

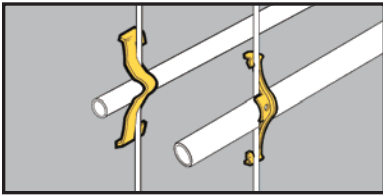


MC/AC Cable Size	#12 Wire	#10 Wire	#8 & #9 Wire
14/2 Cable	BW4	BW4	BW4
14/3 Cable	BW4	BW4	BW4
12/2 Cable	BW4	BW4	BW4
12/3 Cable	BW4	BW-8	BW-8

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

# Conduit & Cable



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.

## Rod & Wire Fasteners



BW-8



BW-16

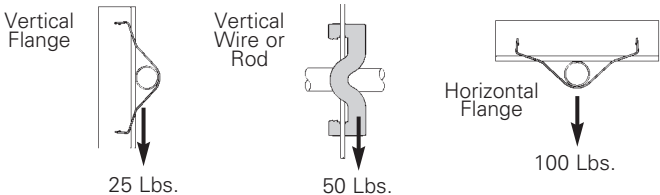


UPC/Part Number	Catalog Number	Box Qty.
78101119710	<b>BW-8</b>	100
78101119715	<b>BW-12</b>	100
78101119720	<b>BW-16</b>	100
78101119725	<b>BW-20</b>	100

Conduit Size	#10 & #12 Wire	#8 & #9 Wire	3/16" & 1/4" Rod	1/8" to 1/4" Flange	5/16" to 3/8" Flange	7/16" to 1/2" Flange
1/2" EMT	BW-8	BW-8	BW-8	BW-8	BW-12	BW-12
1/2" Rigid	BW-8	BW-12	BW-12	BW-12	BW-12	BW-16
3/4" EMT	BW-12	BW-12	BW-12	BW-12	BW-16	BW-16
3/4" Rigid	BW-12	BW-12	BW-16	BW-16	BW-20*	BW-20*
1" EMT	—	BW-16	BW-16	BW-16	BW-20*	BW-20*
1" Rigid	—	—	—	BW-20*	BW-20*	BW-20*
1 1/4" EMT	—	BW-20	BW-20	BW-20	—	—

\*Note: For horizontal applications only.

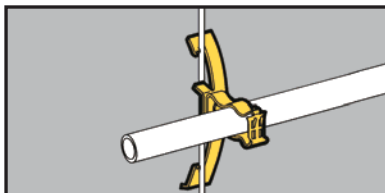
### Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



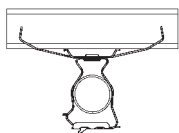
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

## Guide-Rite™ Conduit To Rod Fasteners



UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118540	<b>BG-8-12-W2</b>	1/2", 3/4"	100
78101118640	<b>BG-16-W2</b>	1"	100
78101195519	<b>BG-8-12-W6</b>	1/2", 3/4"	100
78101195520	<b>BG-16-W6</b>	1"	100

Patent #4958792



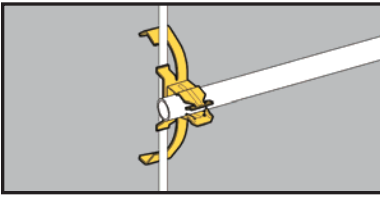
50 Lbs.

**Static Load  
Capacity**



25 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

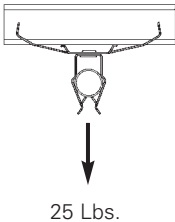


## Push-Type Conduit To Rod Fasteners

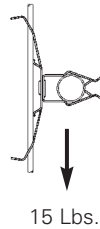
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119325	<b>BP-8-W2</b>	1/2" EMT	100
78101119420	<b>BP-12-W2</b>	3/4" EMT or 1/2" IMC. Rigid	100
78101119505	<b>BP-16-W2</b>	1" EMT or 3/4" IMC, Rigid	100
78101195521	<b>BP-8-W6</b>	1/2" EMT	100
78101195522	<b>BP-12-W6</b>	3/4" EMT or 1/2" IMC. Rigid	100
78101195523	<b>BP-16-W6</b>	1" EMT or 3/4" IMC, Rigid	100



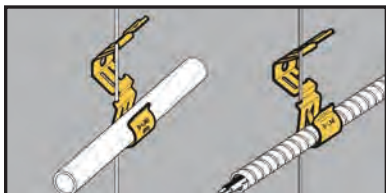
**Ultimate Static Load Capacity**



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.



# Conduit & Cable

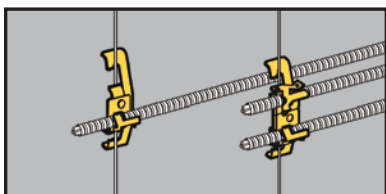


## Flex-Rite™ Cable/Conduit To Wire Fasteners



- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 - #8 wire and 1/4" plain rod.
- Accommodates MC, AC, 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity:  
BX-8 - 20 Lbs.  
BX-18 - 30 Lbs.

UPC/Part Number	Catalog Number	Cable/Conduit Size	Box Qty.
78101101402	<b>BX-8</b>	.375" to 706" O.D.	100
78101102943	<b>BX-18</b>	.706" to 1.380" O.D.	100
78101101685	<b>BX-8B</b>	Bulk Packed In Fiber Barrels	4000



## Cable To Rod Fasteners



BX4-W2

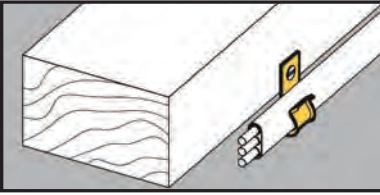


- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

BX4M-W2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101219	<b>BX4-W2</b>	Single Runs	100
78101101189	<b>BX4M-W2</b>	Double Runs	100
78101195517	<b>BX4-W6</b>	Single Runs	100
78101195518	<b>BX4M-W6</b>	Double Runs	100

Read safety/installation instruction sheets in packages before use.

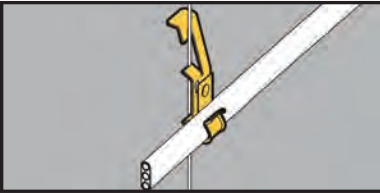


- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.

## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103553	<b>BRC3</b>	Type NM Cable Fastener	100



- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru 1/4" plain or threaded rod.
- W6 series supports cable from 3/8" plain or threaded rod.

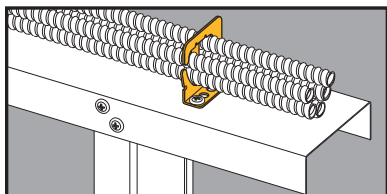
## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103547	<b>BRC3-W2</b>	Type NM Cable To Wire Fastener	100
78101195524	<b>BRC3-W6</b>	Type NM Cable To Wire Fastener	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Conduit & Cable



## Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC5-1



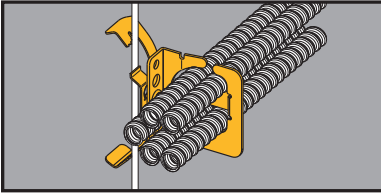
BRC5-2



BRC5-3



UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205143593	<b>BRC5-1</b>	.430" to .560" Up To 4 Runs	50
78205143594	<b>BRC5-2</b>	.430" to .560" Up To 9 Runs	50
78205143595	<b>BRC5-3</b>	.560" to .690" Up To 7 Runs	50



## Multi-Run Cable Carrier for MC/AC Cable



- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to 1/8" thru 3/8" flanges or #12 thru 1/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated

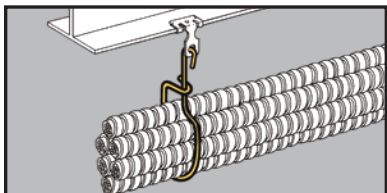


UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205144075	<b>BRC51-W2</b>	.430" to .560" Up To 4 Runs	25
78205144076	<b>BRC52-W2</b>	.430" to .560" Up To 9 Runs	25
78205144077	<b>BRC53-W2</b>	.560" to .690" Up To 7 Runs	25
78205144078	<b>BRC51-W6</b>	.430" to .560" Up To 4 Runs	25
78205144079	<b>BRC52-W6</b>	.430" to .560" Up To 9 Runs	25
78205144080	<b>BRC53-W6</b>	.560" to .690" Up To 7 Runs	25

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

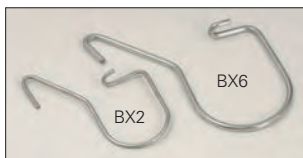
Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Conduit & Cable



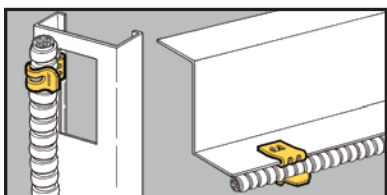
- Designed to support multiple runs of MC, AC, FMC or communication cable.
- Static Load Capacity:  
BX2 - 50 lbs.  
BX6 & BX24 - 75 Lbs.
- Finish: Zinc Plated

## Flexible Cable Support



UPC/Part Number	Catalog Number	Description	Box Qty.
78205104934	<b>BX2</b>	Usable Area = 2 sq. in.	100
78205119765	<b>BX6</b>	Usable Area = 4 sq. in.	100
78205119766	<b>BX24</b>	Usable Area = 13 sq. in.	100

Conduit & Cable

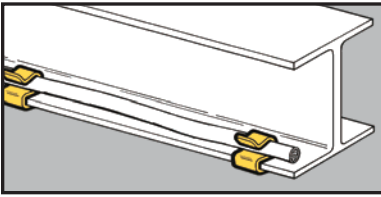


- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness  $5/32"$ .

## Flexible Conduit/Cable Fasteners

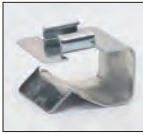


UPC/Part Number	Catalog Number	Description	Box Qty.
78101119770	<b>BX9</b>	Flexible Conduit Fastener	100



- Secures cable along flanges 1/16" to 3/4" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX\_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX\_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX\_-1214 accepts 10/3, romex with ground.
- Finish: Zinc Plated

## Flexible Conduit/ Cable Fasteners



BFA Series  
(For Use with  
BXS Series  
Only)



BXS  
Series

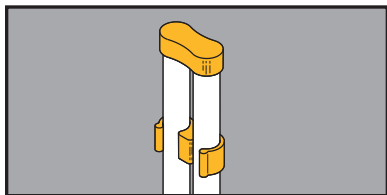


BXL  
Series

UPC/Part Number	Catalog Number	Flange Thickness	Cable Diameter	Box Qty.
78101119973	<b>BXS-67</b>	1/16" - 5/32"	.218 to .281	100
78101119974	<b>BXS-89</b>	1/16" - 5/32"	.290 to .375	100
78101119975	<b>BXS-1011</b>	1/16" - 5/32"	.375 to .437	100
78101119976	<b>BXS-1214</b>	1/16" - 5/32"	.444 to .560	100
78101119977	<b>BXS-1519</b>	1/16" - 5/32"	.500 to .718	100
78101119978	<b>BXS-2024</b>	1/16" - 5/32"	.748 to .945	100
78101119979	<b>BXS-2530</b>	1/16" - 5/32"	.968 to 1.250	100
78101119980	<b>BXM-67</b>	5/32" - 9/32"	.218 to .281	100
78101119981	<b>BXM-89</b>	5/32" - 9/32"	.290 to .375	100
78101119982	<b>BXM-1011</b>	5/32" - 9/32"	.375 to .437	100
78101119983	<b>BXM-1214</b>	5/32" - 9/32"	.444 to .560	100
78101119984	<b>BXM-1519</b>	5/32" - 9/32"	.500 to .718	100
78101119985	<b>BXM-2024</b>	5/32" - 9/32"	.748 to .945	100
78101119986	<b>BXM-2530</b>	5/32" - 9/32"	.968 to 1.250	100
78101119987	<b>BXL-67</b>	5/16" - 1/2"	.218 to .281	100
78101119988	<b>BXL-89</b>	5/16" - 1/2"	.290 to .375	100
78101119989	<b>BXL-1011</b>	5/16" - 1/2"	.375 to .437	100
78101119990	<b>BXL-1214</b>	5/16" - 1/2"	.444 to .560	100
78101119991	<b>BXL-1519</b>	5/16" - 1/2"	.500 to .718	100
78101119992	<b>BXL-2024</b>	5/16" - 1/2"	.748 to .945	100
78101119993	<b>BXL-2530</b>	5/16" - 1/2"	.968 to 1.250	100
78101119955	<b>BFA-1215</b>	1/2" - 5/8"	-	100
78101119956	<b>BFA-1520</b>	5/8" - 3/4"	-	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Conduit & Cable



## Conduit Quick Caps & Spacers



BCS & BES  
8 & 8C thru 16 & 16C



BCS 18, 18C, 20, & 20C



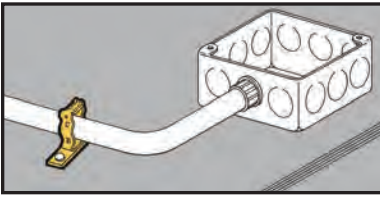
BCS 12AS & 16AS

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- Available in EMT & Rigid conduit sizes.

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>Conduit Spacer</b>			
78205122356	<b>BCS-8</b>	1/2" Rigid Conduit	50
78205140057	<b>BES-8</b>	1/2" EMT Conduit	50
78205122357	<b>BCS-12</b>	3/4" Rigid Conduit	50
78205140058	<b>BES-12</b>	3/4" EMT Conduit	50
78205122358	<b>BCS-16</b>	1" Rigid Conduit	50
78205140059	<b>BES-16</b>	1" EMT Conduit	50
79903855806	<b>BCS-18</b>	1 1/2" Rigid Conduit	25
79903855807	<b>BCS-20</b>	2" Rigid Conduit	25
<b>Conduit Cap</b>			
78205122359	<b>BCS-8C</b>	1/2" Rigid Conduit	50
78205140060	<b>BES-8C</b>	1/2" EMT Conduit	50
78205122361	<b>BCS-12C</b>	3/4" Rigid Conduit	50
78205140061	<b>BES-12C</b>	3/4" EMT Conduit	50
78205122362	<b>BCS-16C</b>	1" Rigid Conduit	50
78205140062	<b>BES-16C</b>	1" EMT Conduit	50
79903855803	<b>BCS-18C</b>	1 1/2" Rigid Conduit	25
79903855805	<b>BCS-20C</b>	2" Rigid Conduit	25
<b>Conduit Spacer</b>			
79903855808	<b>BCS-12AS</b>	3/4" Rigid Conduit	50
79903855809	<b>BCS-16AS</b>	1" Rigid Conduit	25

Patent #5896892

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



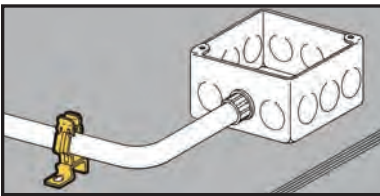
- Eliminates the need for offset bends when used with 1 1/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.

## Conduit Spacer Brackets



BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118495 Patent # 4958792	<b>BG-8-12-D3</b>	1/2" or 3/4"	100
78101119265	<b>BP-8-D3</b>	1/2" EMT	100
78101118365	<b>BP-12-D3</b>	3/4" EMT or 1/2" IMC, Rigid	100



- Eliminates the need for offset bends when used with 2 1/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.

## Conduit Spacer Brackets



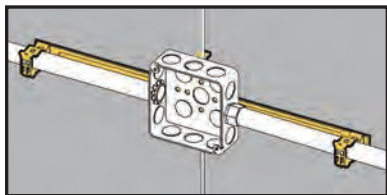
BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118500 Patent # 4958792	<b>BG-8-12-D4</b>	1/2" or 3/4"	100
78101119270	<b>BP-8-D4</b>	1/2" EMT	100
78101119370	<b>BP-12-D4</b>	3/4" EMT or 1/2" IMC, Rigid	100
78101119460	<b>BP-16-D4</b>	1" EMT or 3/4" IMC, Rigid	100

Read safety/installation instruction sheets in packages before use.



# Conduit & Cable

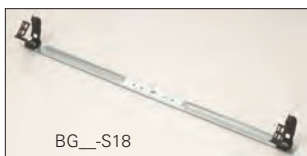


## Guide-Rite™ Conduit & Box Support Fasteners



- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.

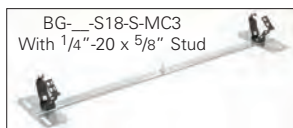
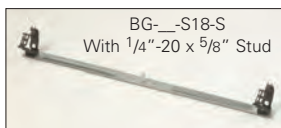


UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101103575	<b>BG6-S18 *</b>	3/8"	25
78101103573	<b>BG812-S18</b>	1/2" or 3/4"	25
78101103574	<b>BG16-S18</b>	1"	25

### With Multiple Conduit Plate

78205152812	<b>BG6-S18-MC3 *</b>	3/8"	25
78205152900	<b>BG812-S18-MC3</b>	1/2" or 3/4"	25
78205152901	<b>BG16-S18-MC3</b>	1"	25

Patent # 4958792



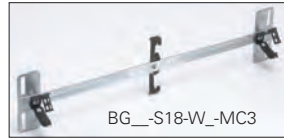
### With Stud

78205152902	<b>BG6-S18S *</b>	3/8"	25
78110104979	<b>BG812-S18S</b>	1/2" or 3/4"	25
78205152903	<b>BG16-S18S</b>	1"	25

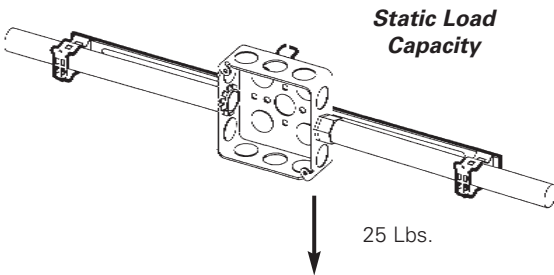
### With Stud & Multiple Conduit Plate

78205152904	<b>BG6-S18S-MC3 *</b>	3/8"	25
78205152905	<b>BG812-S18S-MC3</b>	1/2" or 3/4"	25
78205152906	<b>BG16-S18S-MC3</b>	1"	25

# Conduit & Cable



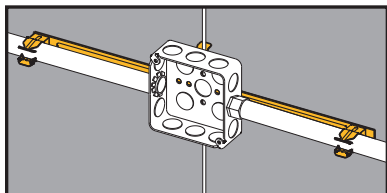
UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78101103578	<b>BG6-S18-W2 *</b>	3/8"	25
78101103577	<b>BG812-S18-W2</b>	1/2" or 3/4"	25
78101103577	<b>BG16-S18-W2</b>	1"	25
<b>W2 Series for #12 thru 1/4" Rod &amp; Multiple Conduit Plate **</b>			
78205152855	<b>BG6-S18-W2-MC3 *</b>	3/8"	25
78205152739	<b>BG812-S18-W2-MC3</b>	1/2" or 3/4"	25
78205152862	<b>BG16-S18-W2-MC3</b>	1"	25
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78110199581	<b>BG6-S18-W6 *</b>	3/8"	25
78110199582	<b>BG812-S18-W6</b>	1/2" or 3/4"	25
78110199580	<b>BG16-S18-W6</b>	1"	25
<b>W6 Series for 3/8" Plain or Threaded Rod &amp; Multiple Conduit Plate **</b>			
78205152856	<b>BG6-S18-W6-MC3 *</b>	3/8"	25
78205152860	<b>BG812-S18-W6-MC3</b>	1/2" or 3/4"	25
78205152864	<b>BG16-S18-W6-MC3</b>	1"	25



- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit
- \*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



## Push-Type Conduit & Box Support Fasteners

- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.



BP\_\_S18

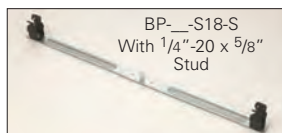


BP\_\_S18-MC3

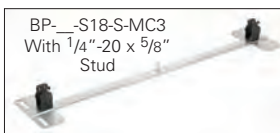
UPC/Part Number	Catalog Number	Conduit Size (EMT) R(Rigid)	Box Qty.
78205123604	<b>BP8-S18</b>	1/2" E	25
78205123605	<b>BP12-S18</b>	3/4" E or 1/2" R	25
78205123606	<b>BP16-S18</b>	1"E, 3/4" R	25

### With Multiple Conduit Plate

78205152907	<b>BP8-S18-MC3</b>	1/2" E	25
78205152908	<b>BP12-S18-MC3</b>	3/4" E or 1/2" R	25
78205152909	<b>BP16-S18-MC3</b>	1"E, 3/4" R	25



BP\_\_S18-S  
With 1/4"-20 x 5/8"  
Stud



BP\_\_S18-S-MC3  
With 1/4"-20 x 5/8"  
Stud

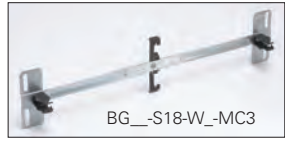
### With Stud

78205123631	<b>BP8-S18S</b>	1/2" E	25
78205123633	<b>BP12-S18S</b>	3/4" E or 1/2" R	25
78205123634	<b>BP16-S18S</b>	1"E, 3/4" R	25

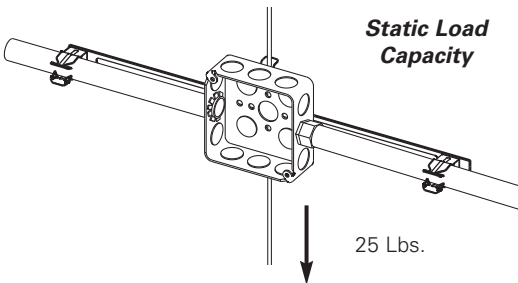
### With Stud & Multiple Conduit Plate

78205152913	<b>BP8-S18S-MC3</b>	1/2" E	25
78205152914	<b>BP12-S18S-MC3</b>	3/4" E or 1/2" R	25
78205152915	<b>BP16-S18S-MC3</b>	1"E, 3/4" R	25

# Conduit & Cable

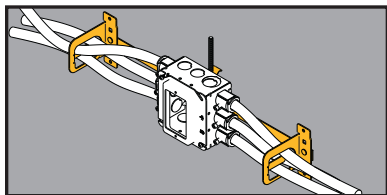


UPC/Part Number	Catalog Number	Conduit Size E(EMT) R(Rigid)	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78205123615	<b>BP8-S18-W2</b>	1/2" EMT	25
78205123619	<b>BP12-S18-W2</b>	3/4" E or 1/2" R	25
78205123627	<b>BP16-S18-W2</b>	1"E, 3/4" R	25
<b>W2 Series for #12 thru 1/4" Rod &amp; Multiple Conduit Plate **</b>			
78205152847	<b>BP8-S18-W2-MC3</b>	1/2" EMT	25
78205152848	<b>BP12-S18-W2-MC3</b>	3/4" E or 1/2" R	25
78205152849	<b>BP16-S18-W2-MC3</b>	1"E, 3/4" R	25
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78205123628	<b>BP8-S18-W6</b>	1/2" EMT	25
78205123629	<b>BP12-S18-W6</b>	3/4" E or 1/2" R	25
78205123630	<b>BP16-S18-W6</b>	1"E, 3/4" R	25
<b>W6 Series for 3/8" Plain or Threaded Rod &amp; Multiple Conduit Plate **</b>			
78205152850	<b>BP8-S18-W6-MC3</b>	1/2" EMT	25
78205152851	<b>BP12-S18-W6-MC3</b>	3/4" E or 1/2" R	25
78205152854	<b>BP16-S18-W6-MC3</b>	1"E, 3/4" R	25



\*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

# Conduit & Cable



## Multi-Run Cable Carrier & Box Support Fasteners

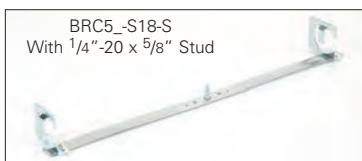


- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retention tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



Conduit & Cable

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78205152916	<b>BRC51-S18</b>	Up to 4 runs .430" - .560"	25
78205152918	<b>BRC53-S18</b>	Up to 7 runs .560" - .690"	25



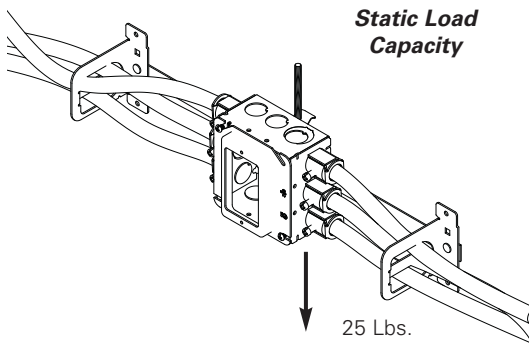
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>With Stud</b>			
78205152919	<b>BRC51-S18S</b>	Up to 4 runs .430" - .560"	25
78205152921	<b>BRC53-S18S</b>	Up to 7 runs .560" - .690"	25

# Conduit & Cable



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78205152865	<b>BRC51-S18-W2</b>	Up to 4 runs .430" - .560"	25
78205152869	<b>BRC53-S18-W2</b>	Up to 7 runs .560" - .690"	25

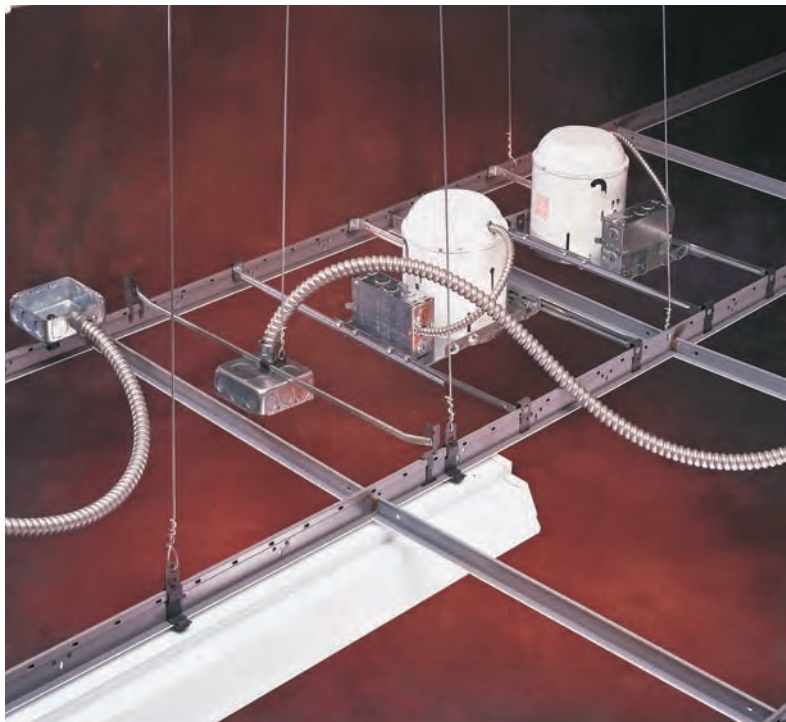
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78205152866	<b>BRC51-S18-W6</b>	Up to 4 runs .430" - .560"	25
78205152870	<b>BRC53-S18-W6</b>	Up to 7 runs .560" - .690"	25



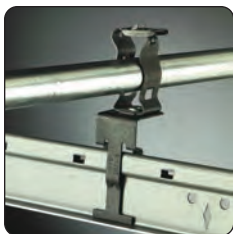
\*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

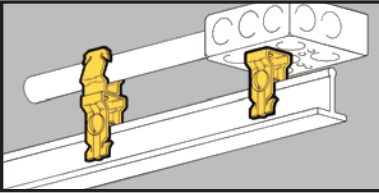
Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



Acoustical Tee



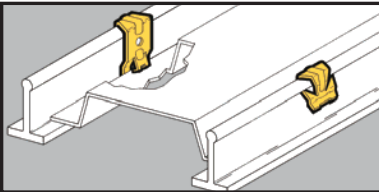


## T-Bar Support Fasteners



- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has 1/4"-20 thread impression for attachment to box or conduit fastener.
- **Warning:** Do not use for hanging acoustical tee.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118090	BA14	T-Bar Support Clip	100



## Troffer Fasteners



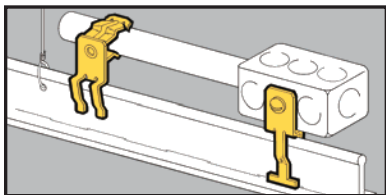
- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	BA15	For Straight Lip or Uprturned Lip Fixtures	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



# Acoustical Tee



- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

## Side Mount T-Bar Fasteners

BA5-4T



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	<b>BA5-4T</b>	With 1/4"-20 Thread Impression	100

BG Series



BP Series

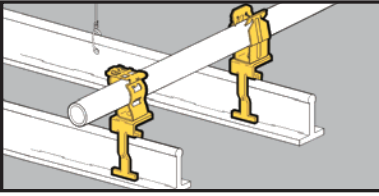


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118410	<b>BG-6-A5 *</b>	3/8"	100
78101118465	<b>BG-8-12-A5</b>	1/2", 3/4"	100
78101118545	<b>BG-16-A5</b>	1"	100
Patent #4958792			
78101119235	<b>BP-8-A5</b>	1/2" EMT	100
78101119335	<b>BP-12-A5</b>	3/4" EMT	100
		1/2" IMC, Rigid	
78101118545	<b>BP-16-A5</b>	1" EMT	100
		3/4" IMC, Rigid	

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

## Top Mount T-Bar Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118125	<b>BA6-4T</b>	With 1/4"-20 Thread Impression	100

BG Series



BP Series

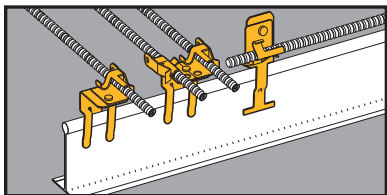


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101188540	<b>BG-6-A6 *</b>	3/8"	100
78101118470	<b>BG-8-12-A6</b>	1/2", 3/4"	100
78101118550	<b>BG-16-A6</b>	1"	100
Patent #4958792			
78101119240	<b>BP-8-A6</b>	1/2" EMT	100
78101119340	<b>BP-12-A6</b>	3/4" EMT	100
		1/2" IMC, Rigid	
78101119435	<b>BP-16-A6</b>	1" EMT	100
		3/4" IMC, Rigid	

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.  
 These products are designed for positioning only. No load rating.

# Acoustical Tee



- A positive method for supporting cable or flexible conduit above T-Bar.
- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.

## Top Mount T-Bar Fasteners

BX4-A6



BX4M-A6



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101220	<b>BX4-A6</b>	Single Runs	100
78101101216	<b>BX4M-A6</b>	Double Runs	100

Note: Fasteners will rotate 360°.

BX4-A5



BX4M-A5

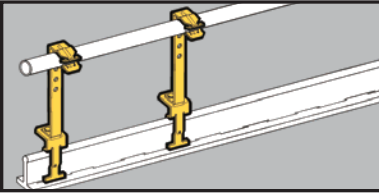


UPC/Part Number	Catalog Number	Description	Box Qty.
78101101187	<b>BX4-A5</b>	Single Runs	100
78101101211	<b>BX4M-A5</b>	Double Runs	100

Note: Fasteners will rotate 360°.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4<sup>1</sup>/<sub>4</sub>" to 7<sup>1</sup>/<sub>4</sub>".
- Conduit fasteners can be attached at <sup>3</sup>/<sub>4</sub>" increments.
- BX4M-A28 supports cable or FMC above T-Bar.

## Support Fasteners

BA28



BX4M-A28



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118115	<b>BA28</b>	1/2" Holes Allow for Adjustment Between 4 <sup>1</sup> / <sub>4</sub> " and 7 <sup>1</sup> / <sub>4</sub> " at <sup>3</sup> / <sub>4</sub> " Increments	50
78101101211	<b>BX4M-A28</b>	Double Runs MC, AC, or FMC	25

BP-12-A28

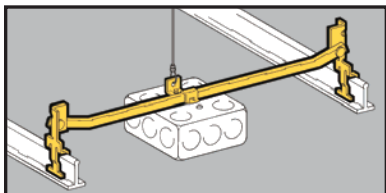


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119230	<b>BP-8-A28</b>	1/2" EMT	100
78101119330	<b>BP-12-A28</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119425	<b>BP-16-A28</b>	1" EMT 3/4" IMC, Rigid	100

Note: Adjustable BP Conduit Fastener is attached with screw in 7<sup>1</sup>/<sub>4</sub>" top hole position.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



## Electrical Box T-Bar Fasteners



- See BA50 for a stronger, more cost effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or  $\frac{3}{4}$ " offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- **Warning:** Do not use for hanging acoustical tee.

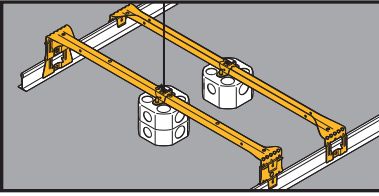
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118080	<b>BA12</b>	Box Hanger 24" Span	50
78101118082	<b>BA12-12</b>	Box Hanger 12" Span	50
78101118085	<b>BA120</b>	Box Hanger 20" Span	50
78101118087	<b>BA130</b>	Box Hanger 30" Span	50



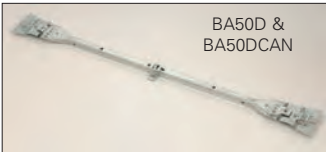
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118170	<b>BB27</b>	Box Mounting Clip (with Screw)	100
78101101673	<b>SRHMS<math>\frac{1}{4}</math>x<math>\frac{3}{8}</math></b>	$\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Slotted Round Head Machine Screw	50

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



## Heavy Duty Electrical Box Hanger



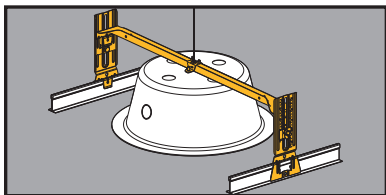
- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1 1/2" or 2 1/8" deep boxes without tools.
- Self-centering feature positions box on center.
- Includes BA50C4T Box Mounting Clip.
- Ultimate Static Load Capacity: 50 Lbs. (without dedicated dropwire)
- Static Load Capacity: 70 Lbs. (with dedicated dropwire) 35 Lbs. Canada
- Finish: Pre-galvanized
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101196490	<b>BA50</b>	Box Hanger	25
78205135905	<b>BA50CAN</b> *	Box Hanger	25
78101196491	<b>BA50D</b>	Box Hanger for Box with 1 1/2" Extension	25
78205135906	<b>BA50DCAN</b> *	Box Hanger Box with 1 1/2" Extension	25
78205136570	<b>BA50C4T</b>	Box Mounting Clip with Hardware	25
78205136571	<b>BA50C3T</b> *	Box Mounting Clip with Hardware	25
78101196489	<b>BA50E</b>	Extender Brackets with Hardware	10 pair

\* Canada Only

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



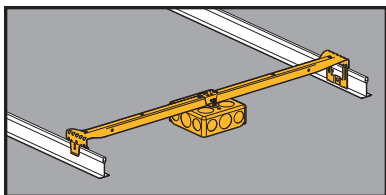
- Adjustable box support for suspended ceilings.
- Accommodates heights up to 8<sup>3</sup>/<sub>4</sub>".
- Integral ruler enables height adjustments without measuring.

## Adjustable Box Support



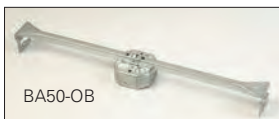
- Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.
- Static Load Capacity:  
25 Lbs. without dedicated dropwire  
70 Lbs. with dedicated dropwire  
35 Lbs. (Canada) with dedicated dropwire
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205118460	<b>BA50A</b>	Adjustable Box Hanger T-Bar	10



- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support.  
35 Lbs. in Canada
- 24" span

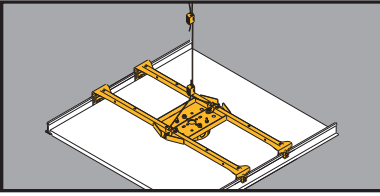
## Electrical Box T-Bar Fasteners



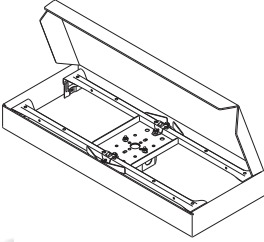
UPC/Part Number	Catalog Number	Description	Box Qty.
78205124855	<b>BA50-OB-24</b>	1 <sup>1</sup> / <sub>2</sub> " Deep Box to T-Bar Fastener	10
78205124856	<b>BA50-OB-34</b>	2 <sup>1</sup> / <sub>8</sub> " Deep Box to T-Bar Fastener	10
78205124857	<b>BA50-SB-24</b>	1 <sup>1</sup> / <sub>2</sub> " Deep Box to T-Bar Fastener	10
78205150954	<b>BA50-SB-34</b>	2 <sup>1</sup> / <sub>8</sub> " Deep Box to T-Bar Fastener	10

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee

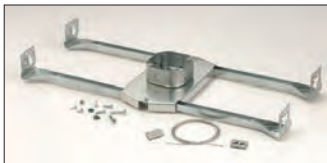
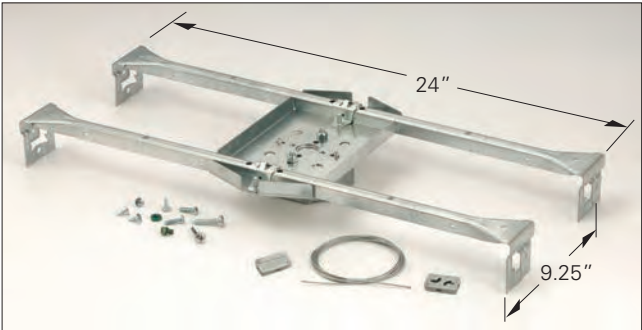


## RediMount™ Fan Hanger



- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire™ cable and clamps which attach to mounting clips for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs. 35 Lbs. Canada
- Finish: Pre-galvanized

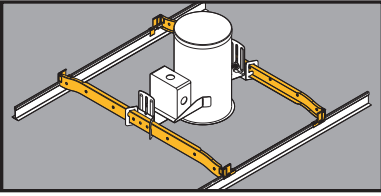
UPC/Part Number	Catalog Number	Description	Box Qty.
78101196492	BA50F	Fan/Fixture Hanger Includes 4" x 11/2" Deep Octagon Box	1



Read safety/installation instruction sheets in packages before use.



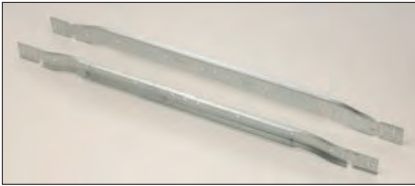
# Acoustical Tee



## QuikFix™ Fastening System



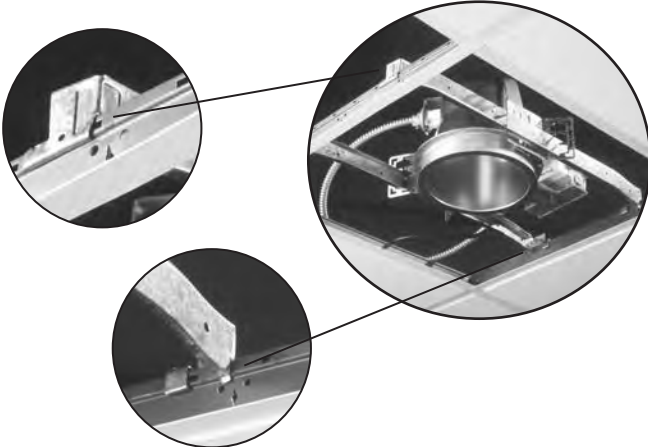
- New QuikFix™ Fastening System mounts spec grade downlights 50% faster than “wire bound” installation methods.
- QuikFix™ System is pre-sized for 24" spacing.
- No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.



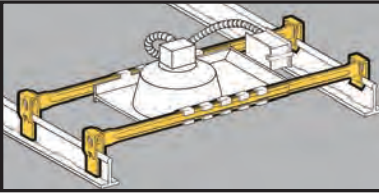
UPC/Part Number	Catalog Number	Description	Box Qty.
78205199873	<b>BA40</b>	Fixture Bar	20 pair

Patent # 6286265

- Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding.

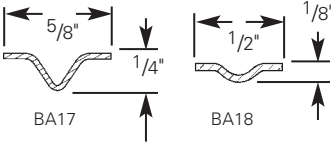


# Acoustical Tee

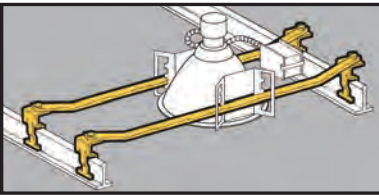


- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).

## Light Fixture T-Bar Fasteners



UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118100	<b>BA17</b> (Wide Bar)	CAPRI <sup>1</sup> R-9X, R-10X CAPRI <sup>1</sup> R-10X CAPRI <sup>1</sup> PR-751CX HALO <sup>2</sup> H7, HALO <sup>2</sup> H17 JUNO <sup>3</sup> AP, APT JUNO <sup>3</sup> IC, ICT, J, SC, TC THOMAS <sup>4</sup> RI-C	10 sets
78101118105	<b>BA18</b> (Narrow Bar)	CAPRI <sup>1</sup> HSG LIGHTOLIER <sup>5</sup> 711	10 sets



- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).

## Light Fixture T-Bar Fasteners



UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118110	<b>BA20</b> (Wide Bar)	Fits LIGHTOLIER <sup>5</sup> CALCULITE <sup>5</sup> Fixtures	10 sets

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.  
 2. HALO<sup>®</sup> is the registered trademark of Cooper Industries, Elk Grove, IL.  
 3. JUNO<sup>®</sup> is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.  
 4. THOMAS<sup>®</sup> is the registered trademark of Thomas Industries, Inc., Louisville, KY.  
 5. LIGHTOLIER<sup>®</sup> and CALCULITE<sup>®</sup> are the registered trademarks of Lightolier, Inc., Secaucus, NJ.

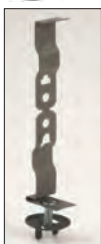
Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



- Allows for independent suspension of fixtures.
- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all 1/4"-20 suspension hangers.
- Static Load Capacity: 65 Lbs.

## Suspension Fasteners



BA1



BA1-T



BA1-T-BN

UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78101118065	<b>BA1</b>	15/16"	1/4"-20 x 5/8"	100
78101118070	<b>BA1-24</b>	15/16"	1/4"-20 x 1 1/2"	100
78101118075	<b>BA1-32</b>	15/16"	1/4"-20 x 2"	100
78101102891	<b>BA1-T</b>	15/16"	#8-32 x 5/8" with Pal Nut	100
78101102897	<b>BA1-T-BN</b>	15/16"	#8-32 x 5/8" with Brass Nut	100

Acoustical Tee

BA1-9

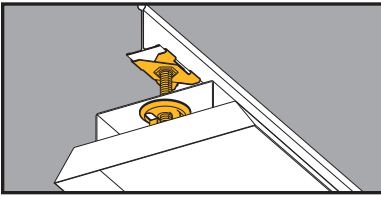


BA1-95



UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78205125585	<b>BA1-9</b>	9/16"	1/4"-20 x 5/8"	100
78205125587	<b>BA1-95</b>	9/16" & 15/16"	1/4"-20 x 5/8"	100

# Acoustical Tee

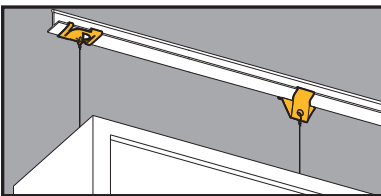


## T-Bar Scissor Fasteners

- Supports electrical fixtures from standard  $1\frac{5}{16}$ " T-Bars.
- BA-4-WN wing nut included.
- $\frac{1}{4}$ "-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.



UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101104258	<b>BAX-4-16</b>	$\frac{5}{8}$ "	100
78101104262	<b>BAX-4-16-24</b>	$1\frac{1}{2}$ "	100
78101104263	<b>BAX-4-16-32</b>	2"	100
78101104264	<b>BAX-4-16-48</b>	3"	100



## Sign Hangers

- BA-4-16-H supports signs from  $1\frac{5}{16}$ " T-Bar.
- BA-4-16-H1 supports signs from  $\frac{9}{16}$ " or  $1\frac{5}{16}$ " T-Bar.
- Static Load Capacity: 40 Lbs.



BA-4-16-H

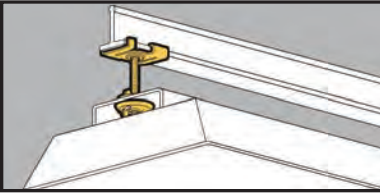


BA-4-16-H1

UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101118040	<b>BA-4-16-H</b>	Sign Hanger with White Finish	100
78101104449	<b>BA-4-16-H1</b>	Sign Hanger with Zinc Plated Finish	100

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



- Supports electrical fixtures from 15/16" T-Bar.
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity:  
BA4-16 Series = 50 lbs.  
BA4-WN Series = 100 lbs.

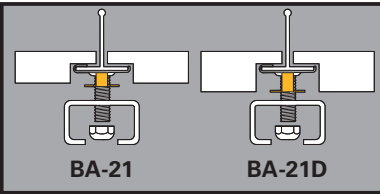
## 15/16" Twist Fasteners



BA-4-WN

UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118020	<b>BA-4-16</b>	Black	5/8"	100
78101118055	<b>BA-4-16-W</b>	White	5/8"	100
78101118025	<b>BA-4-16-24</b>	White	1 1/2"	100
78101118030	<b>BA-4-16-32</b>	White	2"	100
78101118035	<b>BA-4-16-48</b>	White	3"	100
78101118060	<b>BA-4-WN</b>	Black		100

Acoustical Tee



- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- Finish: Zinc Plated

## T-Bar Spacers

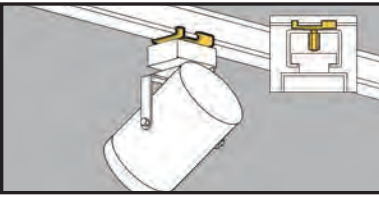


BA-21

BA-21D

UPC/Part Number	Catalog Number	Description	Box Qty.
78101195575	<b>BA-21</b>	1/4" Spacer	100
78101199567	<b>BA-21D</b>	3/8" Spacer	100

# Acoustical Tee



- Supports electrical fixtures from 15/16" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.

## 15/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118000	<b>BA-2-16</b>	Black	5/8" with Pal Nut	100
78101104259	<b>BA-2-16-7</b>	Black	7/16" with Pal Nut	100
78101118010	<b>BA-2-16-W</b>	White	5/8" with Pal Nut	100
78101104261	<b>BA-2-16-7-W</b>	White	7/16" with Pal Nut	100

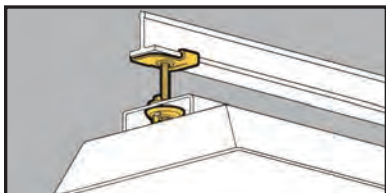


UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118015	<b>BA-2-16-BN</b>	Black	5/8" with Brass Nut	100
78101104260	<b>BA-2-16-7-BN</b>	Black	7/16" with Brass Nut	100
78101118015	<b>BA-2-16-WBN</b>	White	5/8" with Brass Nut	100
78101199566	<b>BA-2-16-7-WBN</b>	White	7/16" with Brass Nut	100

Acoustical Tee

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



- Supports electrical fixtures from 9/16" T-Bar.
- Stud size: 1/4"-20 x 5/8".
- Static Load Capacity: 40 Lbs.

## 9/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103458	<b>BA-4-9</b>	Black	5/8"	100
78101103461	<b>BA-4-9-W</b>	White	5/8"	100



- Supports electrical fixtures and track lighting from 9/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

## 9/16" Twist Fasteners

BA-2-9 Series with Pal Nut



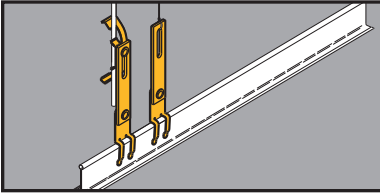
BA-2-9-BN Series with Brass Nut



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103467	<b>BA-2-9</b>	Black	5/8"	100
78101103466	<b>BA-2-9-7</b>	Black	7/16"	100
78101103459	<b>BA-2-9-W</b>	White	5/8"	100
78101103465	<b>BA-2-9-BN</b>	Black	5/8"	100
78101103464	<b>BA-2-9-7-BN</b>	Black	7/16"	100
78101103460	<b>BA-2-9-WBN</b>	White	5/8"	100

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



## Drop Wire/Rod Securing Clip

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



BA-311



BA-311-W2 Shown

UPC/Part Number	Catalog Number	Description	Box Qty.
78101199569	<b>BA311</b>	#12 thru #8 Wire	100
78101199570	<b>BA311-W2</b>	#12 thru 1/4" Plain or	100
78101199571	<b>BA311-W6</b>	3/8" Plain or Threaded Rod	100

Read safety/installation instruction sheets in packages before use.



# Acoustical Tee



## Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205145911	<b>BA-SFC</b>	Seismic Fixture Clamp attaches one standard 2' x 4' light fixture to T-Bar ceiling	25 sets (4 clamps per set)
78205145912	<b>BA-SFC-E*</b>	For attachment of two standard 2' x 4' light fixtures end-to-end onto T-Bar ceiling	25 sets (4 clamps per set)
78205145913	<b>BA-SFC-S*</b>	For attachment of two standard 2' x 4' light fixtures side-by-side onto T-Bar ceiling	25 sets (4 clamps per set)
78205145914	<b>BA-SFC-CF*</b>	For attachment of standard 2' x 2' light fixtures onto T-Bar	50 sets (2 clamps per set)
78205145915	<b>BA-SFC-CFS</b>	Seismic Fixture Clamp for reinforcement of main runner connection points	50 sets (2 clamps per set)

\* BASFC is required to complete installation.

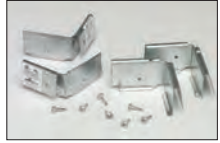
## Seismic Fixture Clamps cont.



**BA-SFC**



**BA-SFC-E**



**BA-SFC-S**

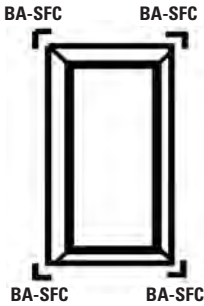


**BA-SFC-CF**



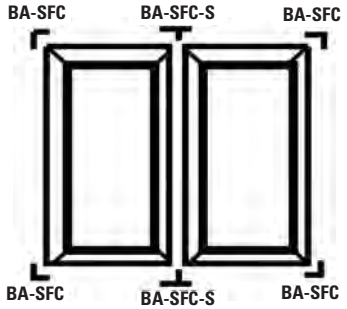
**BA-SFC-CFS**

Single Fixture  
Installation



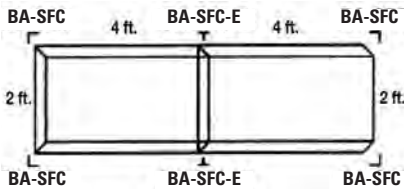
Parts Required:  
1 pc. BA-SFC Installation Kit

Two Fixtures (Side by Side)



Parts Required:  
1 pc. BA-SFC Installation Kit  
1 pc. BA-SFC-S Installation Kit

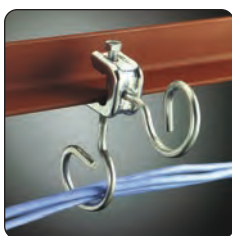
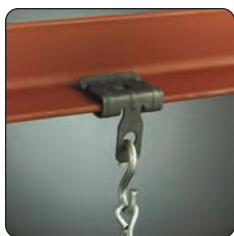
Two Fixtures (End to End)



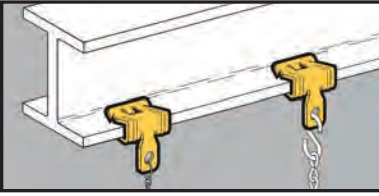
Parts Required:  
1 pc. BA-SFC Installation Kit  
1 pc. BA-SFC-E Installation Kit



# Beams



Beams



- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for 1/4" bolt in tab.
- Simply installed with a hammer.

## Flange Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118290	<b>BE-1-2</b>	3/32" - 9/64"	160 lbs.	100



BE-2-4

UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118295	<b>BE-2-4</b>	1/8" - 1/4"	200 lbs.	100
78101118300	<b>BE-5-8</b>	5/16" - 1/2"	200 lbs.	100
78101118305	<b>BE-9-12</b>	9/16" - 3/4"	200 lbs.	100

Read safety/installation instruction sheets in packages before use.

# Beams



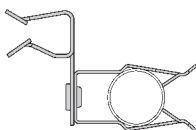
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

## Push-Type Conduit To Beam Fasteners



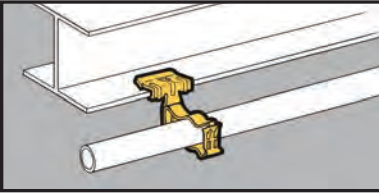
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119275	<b>BP-8-E-2-4</b>	1/2" EMT	1/8" - 1/4"	100
78101119280	<b>BP-8-E-5-8</b>	1/2" EMT	5/16" - 1/2"	100
78101119285	<b>BP-8-E-9-12</b>	1/2" EMT	9/16" - 3/4"	100
78101119375	<b>BP-12-E-2-4</b>	1/2" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119380	<b>BP-12-E-5-8</b>	1/2" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119385	<b>BP-12-E-9-12</b>	1/2" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119465	<b>BP-16-E-2-4</b>	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119470	<b>BP-16-E-5-8</b>	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119475	<b>BP-16-E-9-12</b>	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

**Ultimate  
Static Load  
Capacity**



15 Lbs.





- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

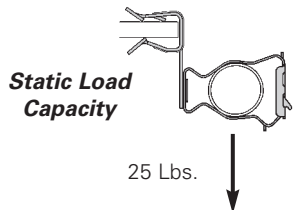
## Guide-Rite™ Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118430	<b>BG-6-E-2-4</b>	3/8"	1/8" - 1/4"	100
78101118435	<b>BG-6-E-5-8</b>	3/8"	5/16" - 1/2"	100
78101118440	<b>BG-6-E-9-12</b>	3/8"	9/16" - 3/4"	100
78101118505	<b>BG-8-12-E-2-4</b>	1/2", 3/4"	1/8" - 1/4"	100
78101118510	<b>BG-8-12-E-5-8</b>	1/2", 3/4"	5/16" - 1/2"	100
78101118515	<b>BG-8-12-E-9-12</b>	1/2", 3/4"	9/16" - 3/4"	100
78101118575	<b>BG-16-E-2-4</b>	1"	1/8" - 1/4"	100
78101118580	<b>BG-16-E-5-8</b>	1"	5/16" - 1/2"	100
78101118585	<b>BG-16-E-9-12</b>	1"	9/16" - 3/4"	100
78101118660	<b>BG-20-E-2-4</b>	1 1/4"	1/8" - 1/4"	100
78101118665	<b>BG-20-E-5-8</b>	1 1/4"	5/16" - 1/2"	100
78101118670	<b>BG-20-E-9-12</b>	1 1/4"	9/16" - 3/4"	100
78101118705	<b>BG-24-E-2-4</b>	1 1/2"	1/8" - 1/4"	50
78101118710	<b>BG-24-E-5-8</b>	1 1/2"	5/16" - 1/2"	50
78101118715	<b>BG-24-E-9-12</b>	1 1/2"	9/16" - 3/4"	50
78101118745	<b>BG-32-E-2-4</b>	2"	1/8" - 1/4"	50
78101118750	<b>BG-32-E-5-8</b>	2"	5/16" - 1/2"	50
78101118755	<b>BG-32-E-9-12</b>	2"	9/16" - 3/4"	50

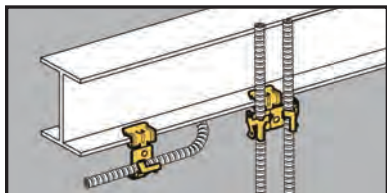
Patent #4958792

- \* BG-6 will accept the following range  $\varnothing.420$  -  $\varnothing.675$ :  
14/2 thru 10/4 MC/AC cable  
and 5/16 or 3/8 flexible conduit



Read safety/installation instruction sheets in packages before use.

# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

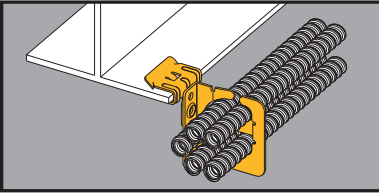
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101192	<b>BX4-E-2-4</b>	Single	1/8" - 1/4"	100
78101101193	<b>BX4-E-5-8</b>	Single	5/16" - 1/2"	100
78101101194	<b>BX4-E-9-12</b>	Single	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101213	<b>BX4M-E-2-4</b>	Double	1/8" - 1/4"	100
78101101214	<b>BX4M-E-5-8</b>	Double	5/16" - 1/2"	100
78101101215	<b>BX4M-E-9-12</b>	Double	5/16" - 3/4"	100



## MC/AC Cable Carrier to Beam Fastener

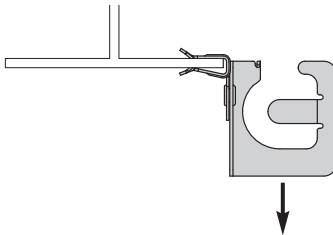


BRC5-2-E24



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144093	<b>BRC51-E12</b>	3/32" - 9/64"	25
78205144096	<b>BRC51-E24</b>	1/8" - 1/4"	25
78205144099	<b>BRC51-E58</b>	5/16" - 1/2"	25
78205144102	<b>BRC51-E912</b>	9/16" - 3/4"	25
78205144094	<b>BRC52-E12</b>	3/32" - 9/64"	25
78205144097	<b>BRC52-E24</b>	1/8" - 1/4"	25
78205144100	<b>BRC52-E58</b>	5/16" - 1/2"	25
78205144103	<b>BRC52-E912</b>	9/16" - 3/4"	25
78205144095	<b>BRC53-E12</b>	3/32" - 9/64"	25
78205144098	<b>BRC53-E24</b>	1/8" - 1/4"	25
78205144101	<b>BRC53-E58</b>	5/16" - 1/2"	25
78205144104	<b>BRC53-E912</b>	9/16" - 3/4"	25



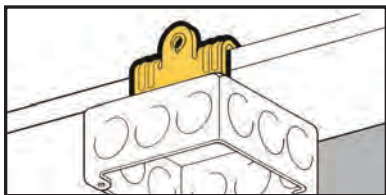
**Static Load Capacity**

50 Lbs.

Read safety/installation instruction sheets in packages before use.



# Beams



- Suspend boxes or fixtures from beam flanges 1/8" to 3/4" thick.
- Provided with 1/4"-20 thread impression for quick and secure attachment.
- Simply installed with a hammer.

## Universal Beam Fasteners



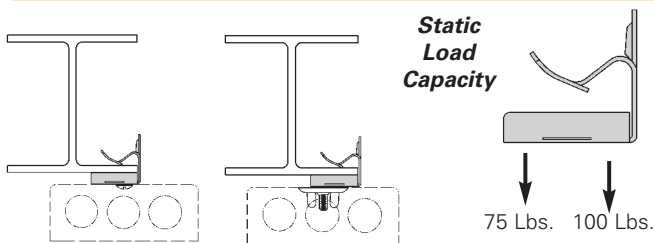
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119600	<b>BU-2-4</b>	1/8" - 1/4"	100
78101119605	<b>BU-5-8</b>	5/16" - 1/2"	100
78101119610	<b>BU-9-12</b>	9/16" - 3/4"	100



1/4\"-20 x 3/8\"  
Staked Stud

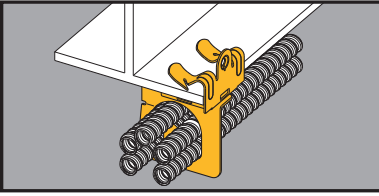
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119615	<b>BU-2-4-S</b>	1/8" - 1/4"	100
78101119620	<b>BU-5-8-S</b>	5/16" - 1/2"	100
78101119625	<b>BU-9-12-S</b>	9/16" - 3/4"	100

Beams



Note: Indicated loads are static load capacity and should not be combined.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

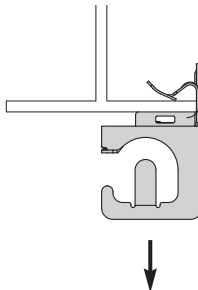


## MC/AC Cable Carrier to Beam Fastener



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144066	<b>BRC51-U24</b>	1/8" - 1/4"	25
78205144069	<b>BRC51-U58</b>	5/16" - 1/2"	25
78205144072	<b>BRC51-U912</b>	9/16" - 3/4"	25
78205144067	<b>BRC52-U24</b>	1/8" - 1/4"	25
78205144070	<b>BRC52-U58</b>	5/16" - 1/2"	25
78205144073	<b>BRC52-U912</b>	9/16" - 3/4"	25
78205144068	<b>BRC53-U24</b>	1/8" - 1/4"	25
78205144071	<b>BRC53-U58</b>	5/16" - 1/2"	25
78205144074	<b>BRC53-U912</b>	9/16" - 3/4"	25

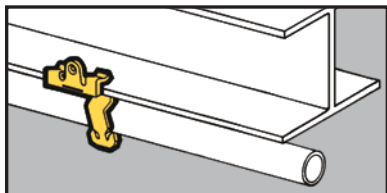


**Static Load Capacity**

75 Lbs.

Read safety/installation instruction sheets in packages before use.

# Beams



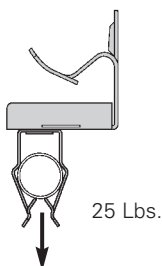
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

## Push-Type Conduit To Beam Fasteners

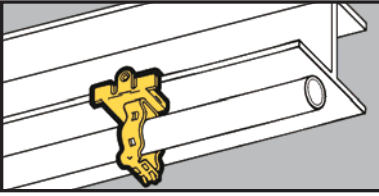


UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119310	<b>BP-8-U-2-4</b>	1/2" EMT	1/8" - 1/4"	100
78101119315	<b>BP-8-U-5-8</b>	1/2" EMT	5/16" - 1/2"	100
78101119320	<b>BP-8-U-9-12</b>	1/2" EMT	9/16" - 3/4"	100
78101119405	<b>BP-12-U-2-4</b>	3/4" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119410	<b>BP-12-U-5-8</b>	3/4" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119415	<b>BP-12-U-9-12</b>	3/4" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119490	<b>BP-12-U-2-4</b>	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119495	<b>BP-12-U-5-8</b>	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119500	<b>BP-12-U-9-12</b>	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

**Ultimate  
Static Load  
Capacity**



Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

## Guide-Rite™ Conduit To Beam Fasteners

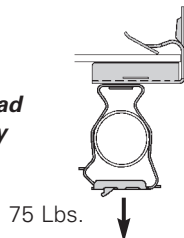


UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118450	<b>BG-6-U-2-4</b>	3/8"	1/8" - 1/4"	100
78101118455	<b>BG-6-U-5-8</b>	3/8"	5/16" - 1/2"	100
78101118460	<b>BG-6-U-9-12</b>	3/8"	9/16" - 3/4"	100
78101118525	<b>BG-8-12-U-2-4</b>	1/2", 3/4"	1/8" - 1/4"	100
78101118530	<b>BG-8-12-U-5-8</b>	1/2", 3/4"	5/16" - 1/2"	100
78101118535	<b>BG-8-12-U-9-12</b>	1/2", 3/4"	9/16" - 3/4"	100
78101118625	<b>BG-16-U-2-4</b>	1"	1/8" - 1/4"	100
78101118630	<b>BG-16-U-5-8</b>	1"	5/16" - 1/2"	100
78101118635	<b>BG-16-U-9-12</b>	1"	9/16" - 3/4"	100
78101118680	<b>BG-20-U-2-4</b>	1 1/4"	1/8" - 1/4"	100
78101118685	<b>BG-20-U-5-8</b>	1 1/4"	5/16" - 1/2"	100
78101118690	<b>BG-20-U-9-12</b>	1 1/4"	9/16" - 3/4"	100
78101118720	<b>BG-24-U-2-4</b>	1 1/2"	1/8" - 1/4"	50
78101118725	<b>BG-24-U-5-8</b>	1 1/2"	5/16" - 1/2"	50
78101118730	<b>BG-24-U-9-12</b>	1 1/2"	9/16" - 3/4"	50
78101118760	<b>BG-32-U-2-4</b>	2"	1/8" - 1/4"	50
78101118765	<b>BG-32-U-5-8</b>	2"	5/16" - 1/2"	50
78101118770	<b>BG-32-U-9-12</b>	2"	9/16" - 3/4"	50

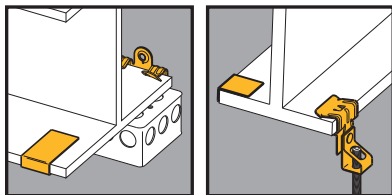
Patent #4958792

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable  
and 5/16 or 3/8 flexible conduit

**Static Load  
Capacity**



# Beams



- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

## Beam Fasteners With Anchor Straps



### Static Load Capacity

75 Lbs.



UPC/Part Number	Catalog Number	Stud Size	Flange Thickness	Box Qty.
78101104942	<b>BU-2-4-S-AS</b>	1/4"-20 x 3/8"	1/8" - 1/4"	50
78101104943	<b>BU-5-8-S-AS</b>	1/4"-20 x 3/8"	5/16" - 1/2"	50
78101104944	<b>BU-9-12-S-AS</b>	1/4"-20 x 3/8"	9/16" - 3/4"	50

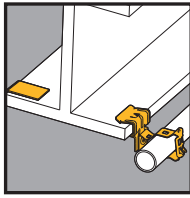
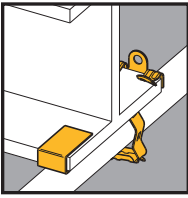


### Static Load Capacity

160 Lbs.

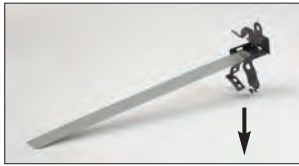


UPC/Part Number	Catalog Number	Threaded Rod Size	Flange Thickness	Box Qty.
78101104948	<b>BH4-E-2-4-AS</b>	1/4"-20	1/8" - 1/4"	50
78101104949	<b>BH4-E-5-8-AS</b>	1/4"-20	5/16" - 1/2"	50
78101104950	<b>BH4-E-9-12-AS</b>	1/4"-20	9/16" - 3/4"	50
78101104951	<b>BH6-E-2-4-AS</b>	3/8"-16	1/8" - 1/4"	50
78101104952	<b>BH6-E-5-8-AS</b>	3/8"-16	5/16" - 1/2"	50
78101104953	<b>BH6-E-9-12-AS</b>	3/8"-16	9/16" - 3/4"	50



- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite™ Fastener provides for fast and easy installation.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

## Conduit To Beam Fasteners With Anchor Straps



**Static Load Capacity**

75 Lbs.

UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104966	<b>BG-8-12-U-2-4-AS</b>	1/2", 3/4"	1/8" - 1/4"	50
78101104967	<b>BG-8-12-U-5-8-AS</b>	1/2", 3/4"	5/16" - 1/2"	50
78101104968	<b>BG-8-12-U-9-12-AS</b>	1/2", 3/4"	9/16" - 3/4"	50
78101104969	<b>BG-16-U-2-4-AS</b>	1"	1/8" - 1/4"	50
78101104970	<b>BG-16-U-5-8-AS</b>	1"	5/16" - 1/2"	50
78101104971	<b>BG-16-U-9-12-AS</b>	1"	9/16" - 3/4"	50



**Static Load Capacity**

25 Lbs.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104972	<b>BG-8-12-E-2-4-AS</b>	1/2", 3/4"	1/8" - 1/4"	50
78101104973	<b>BG-8-12-E-5-8-AS</b>	1/2", 3/4"	5/16" - 1/2"	50
78101104974	<b>BG-8-12-E-9-12-AS</b>	1/2", 3/4"	9/16" - 3/4"	50
78101104975	<b>BG-16-E-2-4-AS</b>	1"	1/8" - 1/4"	50
78101104976	<b>BG-16-E-5-8-AS</b>	1"	5/16" - 1/2"	50
78101104977	<b>BG-16-E-9-12-AS</b>	1"	9/16" - 3/4"	50

Read safety/installation instruction sheets in packages before use.

# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

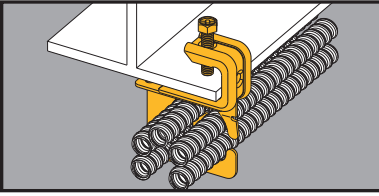
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101197	<b>BX4-U-2-4</b>	Single Runs	1/8" - 1/4"	100
78101101198	<b>BX4-U-5-8</b>	Single Runs	5/16" - 1/2"	100
78101101199	<b>BX4-U-9-12</b>	Single Runs	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101206	<b>BX4M-U-2-4</b>	Double Runs	1/8" - 1/4"	100
78101101207	<b>BX4M-U-5-8</b>	Double Runs	5/16" - 1/2"	100
78101101208	<b>BX4M-U-9-12</b>	Double Runs	9/16" - 3/4"	100



## MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from 1/8" thru 5/8" thick.
- Load Capacity: 50 lbs.



BRC5-1-C442

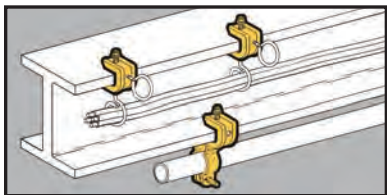


UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144087	<b>BRC51-C442</b>	.430" to .560" Up to 4 Runs	25
78205144088	<b>BRC52-C442</b>	.430" to .560" Up to 9 Runs	25
78205144089	<b>BRC53-C442</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.



# Beams



- BC442 fits beam flanges 1/8" to 5/8". BC442-6 fits beam flanges up to 3/4".
- Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.

## Beam Fasteners

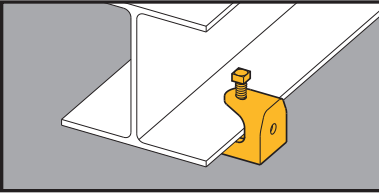


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118278	<b>BC442</b>	Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings	50
78101104283	<b>BC442-6</b>	Accepts 3/8"-16 Threaded Rod	25



UPC/Part Number	Catalog Number	Conduit Size		Box Qty.
		Rigid	EMT	
78101119850	<b>BL1400-C442</b>	1/2"	1/2"	50
78101119851	<b>BL1410-C442</b>	3/4"	3/4"	50
78101119852	<b>BL1420-C442</b>	1"	1"	50
78101119853	<b>BL1425-C442</b>	–	1 1/4"	50
78101119854	<b>BL1430-C442</b>	1 1/4"	1 1/2"	50
78101119855	<b>BL1440-C442</b>	1 1/2"	–	25
78101119856	<b>BL1450-C442</b>	2"	2"	25

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through 1/2" thick.
- Safety Factor of 5.
- Finish: Zinc-Plated

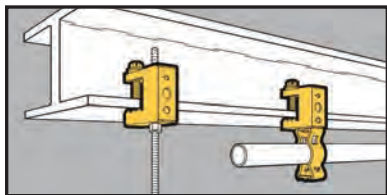
## Beam Fasteners



UPC/Part Number	Catalog Number	Rod Size	Static Load Cap.	Box Qty.
78101155333	<b>B444-1/4</b>	1/4"-20	150 lbs.	50
78101155333	<b>B444-5/16</b>	5/16"-18	150 lbs.	50
78101155333	<b>B444-3/8</b>	3/8"-16	150 lbs.	50

Read safety/installation instruction sheets in packages before use.

# Beams



- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.

## Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118275	<b>BC1</b>	Thru 1/42	100 lbs.	100

**Guide-Rite™**  
Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118490	<b>BG-8-12-C2</b>	1/2", 3/4"	100 lbs.	100
78101118570	<b>BG-16-C2</b>	1"	100 lbs.	100
78101118655	<b>BG-20-C2</b>	1 1/4"	100 lbs.	100
78101118700	<b>BG-24-C2</b>	1 1/2"	100 lbs.	100
78101118740	<b>BG-32-C2</b>	2"	100 lbs.	100

Read safety/installation instruction sheets in packages before use.

## Conduit To Beam Fasteners



Guide-Rite™  
Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118485	<b>BG-8-12-C1</b>	1/2", 3/4"	25 lbs.	100
78101118565	<b>BG-16-C1</b>	1"	25 lbs.	100
78101118650	<b>BG-20-C1</b>	1 1/4"	25 lbs.	100
78101118695	<b>BG-24-C1</b>	1 1/2"	25 lbs.	50
78101118735	<b>BG-32-C1</b>	2"	25 lbs.	50



Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119260	<b>BP-8-C2</b>	1/2" EMT	25 lbs.	100
78101119360	<b>BP-12-C2</b>	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119455	<b>BP-16-C2</b>	1" EMT 3/4" IMC, Rigid	25 lbs.	100

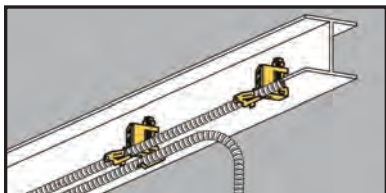


Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119255	<b>BP-8-C1</b>	1/2" EMT	25 lbs.	100
78101119355	<b>BP-12-C1</b>	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119450	<b>BP-16-C1</b>	1" EMT 3/4" IMC, Rigid	25 lbs.	100

Read safety/installation instruction sheets in packages before use.

# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

## Cable To Beam Fasteners



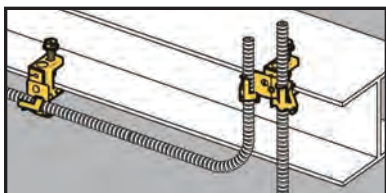
BX4-C2



BX4M-C2



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101190	<b>BX4-C2</b>	Single Runs	100
78101101210	<b>BX4M-C2</b>	Double Runs	100



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

## Cable To Beam Fasteners



BX4-C1

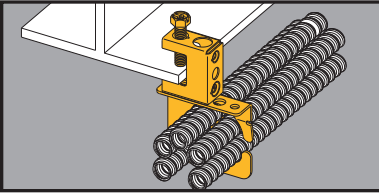


BX4M-C1



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101191	<b>BX4-C1</b>	Single Runs	100
78101101209	<b>BX4M-C1</b>	Double Runs	100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



## MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru 1/2" thick.
- Load Capacity: 50 lbs.



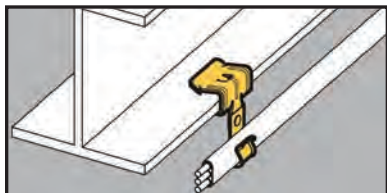
BRC5-x-C2



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144090	<b>BRC51-C2</b>	.430" to .560" Up to 4 Runs	25
78205144091	<b>BRC52-C2</b>	.430" to .560" Up to 9 Runs	25
78205144092	<b>BRC53-C2</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.

# Beams

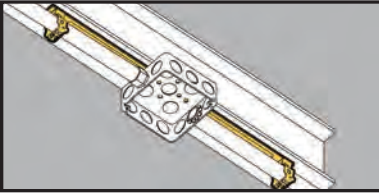


- Attaches Type NM cable to beam flanges 1/8" to 1/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101103550	<b>BRC3-E-2-4</b>	1/8" to 1/4"	100
78101103551	<b>BRC3-E-5-8</b>	5/16" to 1/2"	100
78101103552	<b>BRC3-E-9-12</b>	9/16" to 3/4"	100

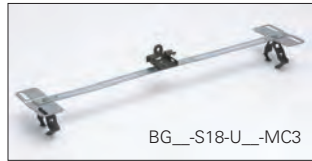


## Guide-Rite™ Conduit & Box Support Fasteners



- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101103583	<b>BG6-S18-U24 *</b>	3/8"	1/8" to 1/4"	25
78101103584	<b>BG6-S18-U58 *</b>	3/8"	5/16" to 1/2"	25
78101103579	<b>BG812-S18-U24</b>	1/2", 3/4"	1/8" to 1/4"	25
78101103580	<b>BG812-S18-U58</b>	1/2", 3/4"	5/16" to 1/2"	25
78101103581	<b>BG16-S18-U24</b>	1"	1/8" to 1/4"	25
78101103582	<b>BG16-S18-U58</b>	1"	5/16" to 1/2"	25

Patent #4958792

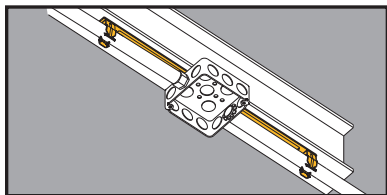
### With Multiple Conduit Plate

78205152813	<b>BG6-S18-U24-MC3 *</b>	3/8"	1/8" to 1/4"	25
78205152814	<b>BG6-S18-U58-MC3 *</b>	3/8"	5/16" to 1/2"	25
78205152815	<b>BG812-S18-U24-MC3</b>	1/2", 3/4"	1/8" to 1/4"	25
78205152816	<b>BG812-S18-U58-MC3</b>	1/2", 3/4"	5/16" to 1/2"	25
78205152817	<b>BG16-S18-U24-MC3</b>	1"	1/8" to 1/4"	25
78205152823	<b>BG16-S18-U58-MC3</b>	1"	5/16" to 1/2"	25

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



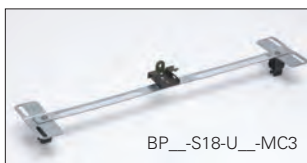
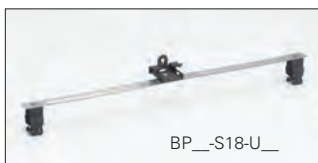
# Beams



## Push-Type Conduit & Box Support Fasteners

- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



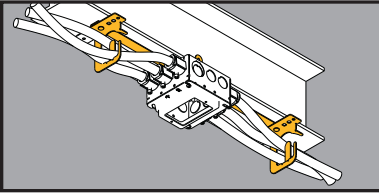
UPC/Part Number	Catalog Number	Conduit Size EMT, IMC, Rigid	Flange Thickness	Box Qty.
78205123635	<b>BP8-S18-U24</b>	3/8"	1/8" to 1/4"	25
78205123638	<b>BP8-S18-U58</b>	3/8"	5/16" to 1/2"	25
78205123636	<b>BP12-S18-U24</b>	1/2", 3/4"	1/8" to 1/4"	25
78205123639	<b>BP12-S18-U58</b>	1/2", 3/4"	5/16" to 1/2"	25
78205123637	<b>BP16-S18-U24</b>	1"	1/8" to 1/4"	25
78205123640	<b>BP16-S18-U58</b>	1"	5/16" to 1/2"	25

Patent #4958792

### With Multiple Conduit Plate

78205152824	<b>BP8-S18-U24-MC3</b>	3/8"	1/8" to 1/4"	25
78205152825	<b>BP8-S18-U58-MC3</b>	3/8"	5/16" to 1/2"	25
78205152827	<b>BP12-S18-U24-MC3</b>	1/2", 3/4"	1/8" to 1/4"	25
78205152828	<b>BP12-S18-U58-MC3</b>	1/2", 3/4"	5/16" to 1/2"	25
78205152825	<b>BP16-S18-U24-MC3</b>	1"	1/8" to 1/4"	25
78205152964	<b>BP16-S18-U58-MC3</b>	1"	5/16" to 1/2"	25

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



## Multi-Run Cable Carrier & Box Support Fastener

- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retention tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



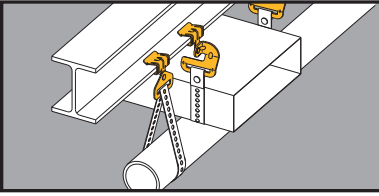
BRC5\_S18-U\_\_

UPC/Part Number	Catalog Number	Conduit Size Number of Runs	Flange Thickness	Box Qty.
78205152829	<b>BRC51-S18-U24</b>	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152830	<b>BRC51-S18-U58</b>	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25
78205152834	<b>BRC53-S18-U24</b>	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152835	<b>BRC53-S18-U58</b>	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25

# Hangers

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- Suspends straps thru 1 1/2" wide from beam flanges 1/8" to 3/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

## Strap Hangers

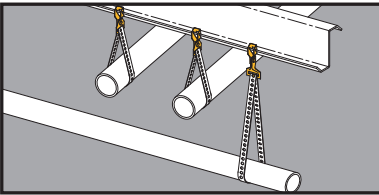


Parallel



Right Angle

UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101104930	<b>BHE-1-2</b>	Parallel	1/16" to 1/8"	100
78101118870	<b>BH-2-4</b>	Parallel	1/8" to 1/4"	100
78101118880	<b>BH-5-8</b>	Parallel	5/16" to 1/2"	100
78101118890	<b>BH-9-12</b>	Parallel	9/16" to 3/4"	100
78101104115	<b>BH-1-2-R</b>	Right Angle	1/16" to 1/8"	100
78101118875	<b>BH-2-4-R</b>	Right Angle	1/8" to 1/4"	100
78101118885	<b>BH-5-8-R</b>	Right Angle	5/16" to 1/2"	100
78101118895	<b>BH-9-12-R</b>	Right Angle	9/16" to 3/4"	100



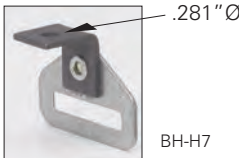
"Z" Purlin Hangers



BH-F12



BH-F12-R



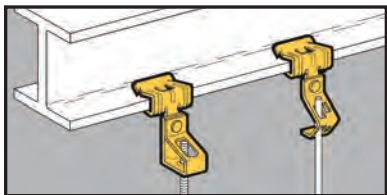
BH-H7



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103385	<b>BH-F12</b>	Right Angle	100
78101103384	<b>BH-F12-R</b>	Parallel	100
78101119922	<b>BH-H7</b>	Parallel	100

Read safety/installation instruction sheets in packages before use.

# Hangers



- Suspend wire or plain and threaded rod from beam flanges 1/8" to 3/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

## Rod To Beam Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118900	<b>BH1-E-2-4</b>	1/8" to 1/4"	#8 Wire or 1/4" Plain Rod	100
78101118905	<b>BH1-E-5-8</b>	5/16" - 1/2"	#8 Wire or 1/4" Plain Rod	100
78101118910	<b>BH1-E-9-12</b>	9/16" - 3/4"	#8 Wire or 1/4" Plain Rod	100

UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118940	<b>BH2-E-2-4</b>	1/8" to 1/4"	3/8"	100
78101118945	<b>BH2-E-5-8</b>	5/16" - 1/2"	3/8"	100
78101118950	<b>BH2-E-9-12</b>	9/16" - 3/4"	3/8"	100

## Rod To Beam Hangers



With Thread Impression



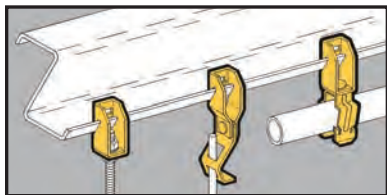
UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101118980	<b>BH4-E-2-4</b>	1/8" to 1/4"	1/4"	100
78101118985	<b>BH4-E-5-8</b>	5/16" - 1/2"	1/4"	100
78101118990	<b>BH4-E-9-12</b>	9/16" - 3/4"	1/4"	100
78101119060	<b>BH6-E-2-4</b>	1/8" to 1/4"	3/8"	100
78101119065	<b>BH6-E-5-8</b>	5/16" - 1/2"	3/8"	100
78101119070	<b>BH6-E-9-12</b>	9/16" - 3/4"	3/8"	100

Note: BH4 and BH6 have thread impressions.

UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101119020	<b>BH5-E-2-4 *</b>	1/8" to 1/4"	1/4" to 3/8"	100
78101119025	<b>BH5-E-5-8 *</b>	5/16" - 1/2"	1/4" to 3/8"	100
78101119030	<b>BH5-E-9-12 *</b>	9/16" - 3/4"	1/4" to 3/8"	100

\*Nuts Required.

# Hangers



## "Z" Purlin Hangers

- Compensates for angle of purlin lip.
- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of  $\frac{3}{32}$ ".

BF13



BF12



UPC/Part Number	Catalog Number	Description	Static Load Cap. Lbs.	Box Qty.
78101118345	<b>BF13</b>	With $\frac{1}{4}$ " Hole	100	100
78101118340	<b>BF12</b>	For "S" Hooks	100	100



**Guide-Rite™**  
Fastener  
BG Series



Push-Type  
BP Series

UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap. Lbs.	Box Qty.
78101118445	<b>BG-6-F13 *</b>	$\frac{3}{8}$ "	100	100
78101118520	<b>BG-8-12-F13</b>	$\frac{1}{2}$ ", $\frac{3}{4}$ "	100	100
78101118590	<b>BG-16-F13</b>	1"	100	100
78101118675	<b>BG-20-F13</b>	$1\frac{1}{4}$ "	100	100
78101119290	<b>BP-8-F13</b>	$\frac{1}{2}$ " EMT	25	100
78101119390	<b>BP-12-F13</b>	$\frac{3}{4}$ " EMT $\frac{1}{2}$ " IMC, Rigid	25	100
78101119480	<b>BP-16-F13</b>	1" EMT $\frac{3}{4}$ " IMC, Rigid	25	50

\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
 $1\frac{1}{2}$  thru  $10\frac{1}{4}$  MC/AC cable and  $\frac{5}{16}$  or  $\frac{3}{8}$  flexible conduit

Read safety/installation instruction sheets in packages before use.

## Universal Beam Fasteners



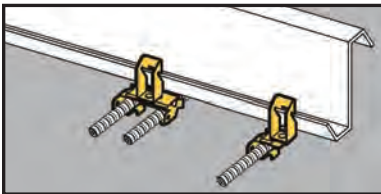
UPC/Part Number	Catalog Number	Description	Static Load Cap.	Box Qty.
78101118920	<b>BH1-F12</b>	#8 Wire or 1/4" Plain Rod	100 Lbs.	100
78101118960	<b>BH2-F12</b>	3/8" Plain Rod	100 Lbs.	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Static Load Cap.	Box Qty.
78101119000	<b>BH4-F12</b>	1/4"	100 Lbs.	100
78101119080	<b>BH6-F12</b>	3/8"	100 Lbs.	100
78101119040	<b>BH5-F12 *</b>	1/4" & 3/8"	100 Lbs.	100

\*Nuts Required.

Note: BH4 and BH6 have thread impressions.



## Cable To "Z" Purlin Flange Hangers

- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to "Z" Purlins up to 3/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



BX4-F13



BX4M-F13

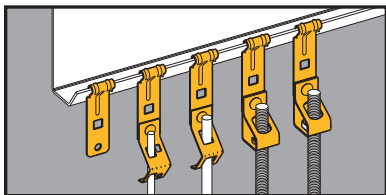


UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101188	<b>BX4-F13</b>	Single Runs	Thru 3/32"	100
78101101204	<b>BX4M-F13</b>	Double Runs	Thru 3/32"	100

Read safety/installation instruction sheets in packages before use.



# Hangers



## "Z" Purlin Flange Hangers

- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins 1/16" to 1/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104271	BF4	For "S" Hooks, Bolting Straps and Wrap Wire	100

## "Z" Purlin Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104274	<b>BH1-F4</b>	#8 Wire or 1/4" Plain Rod	100
78101104276	<b>BH2-F4</b>	3/8" Plain Rod	100

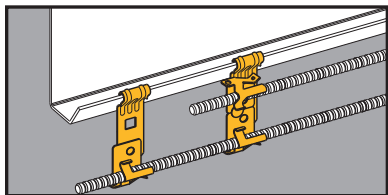


UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104286	<b>BH4-F4</b>	1/4"	100
78101104280	<b>BH6-F4</b>	3/8"	100
78101104278	<b>BH5-F4 *</b>	1/4" - 3/8"	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.

# Hangers



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

## Cable To "Z" Purlin Flange Hangers



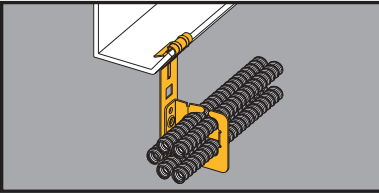
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104931	<b>BX4-F4</b>	Single Runs	100

These products are designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104932	<b>BX4M-F4</b>	Double Runs	100

These products are designed for positioning only. No load rating.



## MC/AC Cable Carrier to 'Z' Purlin Flange Hanger

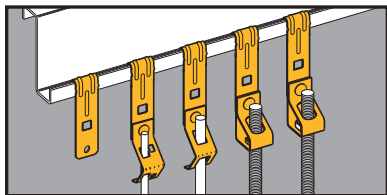
- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144084	<b>BRC51-F4</b>	.430" to .560" Up to 4 Runs	25
78205144085	<b>BRC52-F4</b>	.430" to .560" Up to 9 Runs	25
78205144086	<b>BRC53-F4</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.

# Hangers



- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104270	<b>BF3</b>	For "S" Hooks, Bolting Straps and Wrap Wire	100

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104273	<b>BH1-F3</b>	#8 Wire or 1/4" Plain Rod	100
78101104275	<b>BH2-F3</b>	3/8" Plain Rod	100



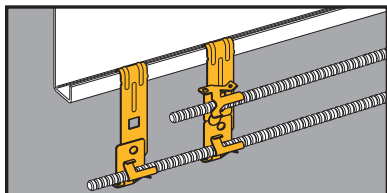
4 1/4"  
Overall Height

UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104285	<b>BH4-F3</b>	1/4"	100
78101104279	<b>BH6-F3</b>	3/8"	100
78101104933	<b>BH5-F3 *</b>	1/4", 3/8"	100

\* Nuts required.

Read safety/installation instruction sheets in packages before use.

# Hangers



## Cable To Vertical Flange Hangers

- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" flexible conduit FMC to vertical flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



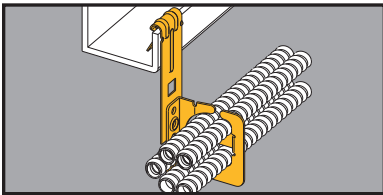
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104281	<b>BX4-F3</b>	Single Runs	100

This product is designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104282	<b>BX4M-F3</b>	Double Runs	100

This product is designed for positioning only. No load rating.



## MC/AC Cable Carrier To Vertical Flange Hanger

- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.

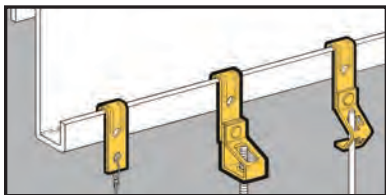


UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144081	<b>BRC51-F3</b>	.430" to .560" Up to 4 Runs	25
78205144084	<b>BRC52-F3</b>	.430" to .560" Up to 9 Runs	25
78205144083	<b>BRC53-F3</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.



# Hangers



- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118310	<b>BF1</b>	1/16" - 5/32"	For "S" Hooks, Bolting Straps and Wrap Wire	100
78101118315	<b>BF2</b>	5/32" - 1/4"	For "S" Hooks, Bolting Straps and Wrap Wire	100



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118915	<b>BH1-F1</b>	1/16" - 5/32"	#8 Wire or 1/4" Plain Rod	100
78101118925	<b>BH1-F2</b>	5/32" - 1/4"	#8 Wire or 1/4" Plain Rod	100

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118955	<b>BH2-F1</b>	1/16" - 5/32"	3/8"	100
78101118965	<b>BH2-F2</b>	5/32" - 1/4"	3/8"	100



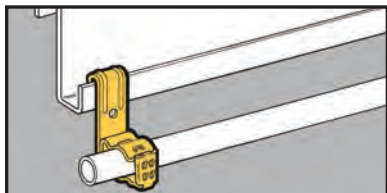
UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
<b>With Thread Impression</b>				
78101118995	<b>BH4-F1</b>	1/16" - 5/32"	1/4"	100
78101119075	<b>BH6-F1</b>	1/16" - 5/32"	3/8"	100
78101119005	<b>BH4-F2</b>	5/32" - 1/4"	1/4"	100
78101119085	<b>BH6-F2</b>	5/32" - 1/4"	3/8"	100

### With Clearance Hole

78101118995	<b>BH5-F1 *</b>	1/16" - 5/32"	1/4", 3/8"	100
78101119075	<b>BH5-F2 *</b>	5/32" - 1/4"	1/4", 3/8"	100

\* Nuts required.

# Hangers



- Supports 3/8" to 1" conduit from vertical flanges 1/16" to 1/4" thick.
- Patented Guide-Rite™ feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

## Conduit To Vertical Flange Hangers



**Guide-Rite™**  
Fastener



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119957	<b>BG-6-F1 *</b>	3/8"	1/16" - 5/32"	100
78101119960	<b>BG-6-F2 *</b>	3/8"	5/32" - 1/4"	100
78101119958	<b>BG-8-12-F1</b>	1/2" & 3/8"	1/16" - 5/32"	100
78101119961	<b>BG-8-12-F2</b>	1/2" & 3/8"	5/32" - 1/4"	100
78101119958	<b>BG-16-F1</b>	1"	1/16" - 5/32"	100
78101119961	<b>BG-16-F2</b>	1"	5/32" - 1/4"	100

Patent #4958792

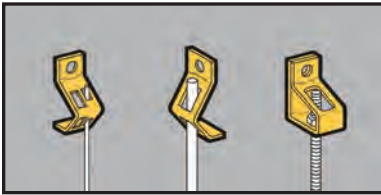
\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



UPC/Part Number	Catalog Number	Wire Size	Flange Thickness	Box Qty.
78101103556	<b>BRC3-F1</b>	14/2 & 12/2 With Ground	1/16" - 5/32"	100
78101103557	<b>BRC3-F2</b>	14/2 & 12/2 With Ground	5/32" - 1/4"	100

Note: These products are designed for positioning only. No load rating.

# Hangers

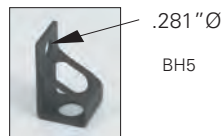


- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8" threaded rod.
- Static Load Capacity: 160 Lbs.

## Components



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118800	<b>BH1</b>	#8 Wire or 1/4" Plain Rod	100
78101118805	<b>BH2</b>	For 3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118815	<b>BH4</b>	For 1/4" Threaded Rod	100
78101118825	<b>BH6</b>	For 3/8" Threaded Rod	100
78101118820	<b>BH5 *</b>	For 1/4" & 3/8" Threaded Rod	100

\* Nuts required.

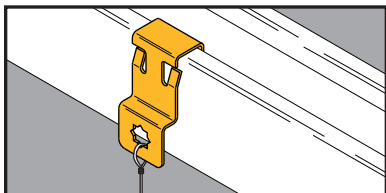
Note: BH4 & BH6 have thread impressions.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118830	<b>BH7</b>	Angle Bracket With .281"Ø Holes	100
78101118835	<b>BH7-6</b>	Angle Bracket With .281"Ø & .406"Ø Holes	100
78101118840	<b>BH8</b>	Offset Bracket With .281"Ø Holes	100
78101118845	<b>BH8-6</b>	Offset Bracket With .281"Ø & .406"Ø Holes	100

Read safety/installation instruction sheets in packages before use.

# Hangers



- The BSC4 Series provides a simple, snap-on attachment to strut, eliminating the need for tools and/or drilling during installation.

## Strut Fasteners



- Ideal for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.

UPC/Part Number	Catalog Number	Description	Load Capacity	Box Qty.
78205146573	<b>BSC4</b>	Strut Clip	60 lbs.	100



UPC/Part Number	Catalog Number	Rod Size	Load Capacity	Box Qty.
78205146581	<b>BH4-SC4</b>	1/4"-20	60 lbs.	100
78205146582	<b>BH6-SC4</b>	3/8"-16	60 lbs.	100

# Hangers



BG-SC4



BP-SC4



BL14-SC4

UPC/Part Number	Catalog Number	Conduit Size	Load Capacity	Box Qty.
78205146577	<b>BG6-SC4</b>	MC/AC & 3/8"	25 lbs.	100
78205146578	<b>BG812-SC4</b>	1/2" & 3/4"	25 lbs.	100
78205146579	<b>BP8-SC4</b>	1/2"	15 lbs.	100
78205146580	<b>BP12-SC4</b>	3/4"	15 lbs.	100
78205146588	<b>BL1400-SC4</b>	1/2"	60 lbs.	100
78205146589	<b>BL1410-SC4</b>	3/4"	60 lbs.	100
78205146590	<b>BL1420-SC4</b>	1"	60 lbs.	100



BX4M-SC4

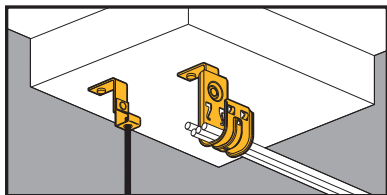


BRC5-SC4

UPC/Part Number	Catalog Number	Cable Size Runs	Load Capacity	Box Qty.
78205146584	<b>BX4M-SC4</b>	14/2 - 10/3 up to 2 runs	–	100
78205146585	<b>BRC51-SC4</b>	.430" to .560" up to 4 runs	50 lbs.	100
78205146586	<b>BRC52-SC4</b>	.430" to .560" up to 9 runs	50 lbs.	100
78205146587	<b>BRC53-SC4</b>	.560" to .690" up to 7 runs	50 lbs.	100

Read safety/installation instruction sheets in packages before use.

# Hangers



## Drive Pin Fasteners



BPNA



BCH21-PNA  
BCH32-PNA



BH-PNA



BH1-PNA  
BH2-PNA

- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1<sup>1</sup>/<sub>4</sub>" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205125583	<b>BPNA</b>	Angle Bracket	100
78205128090	<b>BCH12-PNA</b>	3/4" Cable Hook	100
78205125584	<b>BCH21-PNA</b>	1 <sup>5</sup> / <sub>16</sub> " Cable Hook	50
78205125586	<b>BCH32-PNA</b>	2" Cable Hook	50
78205125588	<b>BCH64-PNA</b>	4" Cable Hook	25
78205125611	<b>BH-PNA</b>	Strap Hanger	100
78205125593	<b>BH1-PNA</b>	#8 Wire or 1/4" Plain Rod	100
78205125596	<b>BH2-PNA</b>	3/8" Plain Rod	100

Read safety/installation instruction sheets in packages before use.

## Drive Pin Fasteners



BH\_PNA



BG\_PNA



BP\_PNA



BL14\_PNA



BX4\_PNA



BX4M\_PNA

UPC/Part Number	Catalog Number	Description	Box Qty.
78205125604	<b>BH4-PNA *</b>	1/4" Threaded Rod	100
78205125606	<b>BH6-PNA *</b>	3/8" Threaded Rod Cable Hook	100
78205125605	<b>BH5-PNA **</b>	1/4" or 3/8" Threaded Rod	100
78205125613	<b>BG6-PNA ***</b>	3/8" Conduit	100
78205125615	<b>BG8-12-PNA</b>	1/2" & 3/4" Conduit	100
78205125616	<b>BG16-PNA</b>	1" Conduit	100
78205125623	<b>BP8-PNA</b>	1/2" EMT	100
78205125624	<b>BP12-PNA</b>	3/4" EMT	100
78205125630	<b>BP16-PNA</b>	1" EMT	100
78205125620	<b>BL1400-PNA</b>	1/2" Conduit	100
78205125621	<b>BL1410-PNA</b>	3/4" Conduit	100
78205125622	<b>BL1420-PNA</b>	1" Conduit	100
78205125590	<b>BX4-PNA</b>	Single Run MC, AC or FMC	100
78205125591	<b>BX4M-PNA</b>	Double Run MC, AC or FMC	100

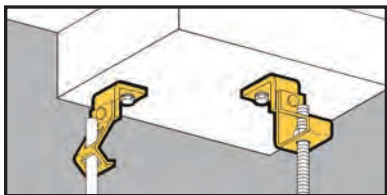
\* With threaded impressions. \*\* Nuts required.

\*\*\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :

14/2 thru 10/4 MC/AC cable and  $5/16$  or  $3/8$  flexible conduit



# Hangers



## Angle Bracket Fasteners

- Suspend plain or threaded rod and drop wire from ceilings, walls, concrete beams, joists and laminated wood beams.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.



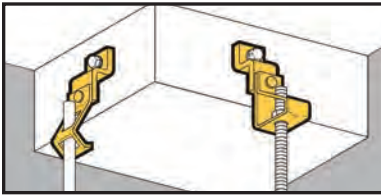
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118930	<b>BH1-H7</b>	#8 Wire or 1/4" Plain Rod	100
78101118975	<b>BH2-H7</b>	For 3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119010	<b>BH4-H7</b>	1/4"-20	100
78101119090	<b>BH6-H7</b>	3/8"-16	100
78101119050	<b>BH5-H7 *</b>	1/4"-20 or 3/8"-16	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

## Offset Bracket Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118935	<b>BH1-H8</b>	#8 Wire or 1/4" Plain Rod	100
78101118975	<b>BH2-H8</b>	3/8" Plain Rod	100

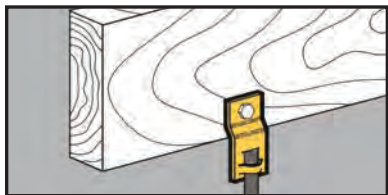


UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119015	<b>BH4-H8</b>	1/4"-20	100
78101119095	<b>BH6-H8</b>	3/8"-16	100
78101119055	<b>BH5-H8 *</b>	1/4"-20 or 3/8"-16	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.

# Hangers



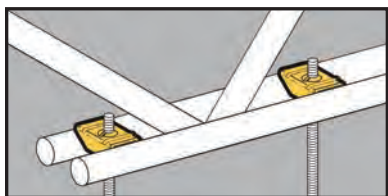
- Suspend 3/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

## Threaded Rod Hangers

.406" Ø



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101661	B3223-3/8	Offset Eye Socket	100



- Allows centering on all open web joists with round bottom chords.
- Static Load Capacity:  
BH11 = 200 Lbs.  
BH12 = 100 Lbs.

## Wedge Hangers



BH11

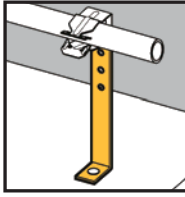
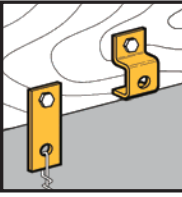


BH12



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118860	BH11	With 3/8" Clearance Hole	100
78101118865	BH12	With 1/4"-20 Thread Impression	100

# Hangers



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



BD4



BA28B

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	<b>BD2</b>	Flat Bracket	100
78101118280	<b>BD4</b>	Offset Bracket	100
78101101449	<b>BA28B</b>	Angle Bracket	100

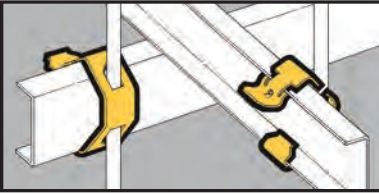
Read safety/installation instruction sheets in packages before use.

# Lathers Channel

Lathers Channel



# Lathers Channel



## Rod & Wire Fasteners

- For fastening standard lathers channels to wires and plain rods.
- Fits 1/2" through 5/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.



BL-24-2



Side Mounts

BL-24-4

UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119882	<b>BL-24-2</b>	1 1/2"	#8 Wire	100
78101119883	<b>BL-24-4</b>	1 1/2"	1/4"	100
78101119885	<b>BL-32-4</b>	2"	1/4"	100



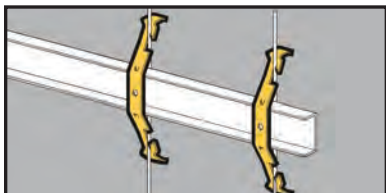
Center Mount



UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119884	<b>BL-24-4C</b>	1 1/2"	1/4" Rod	100

Read safety/installation instruction sheets in packages before use.

# Lathers Channel

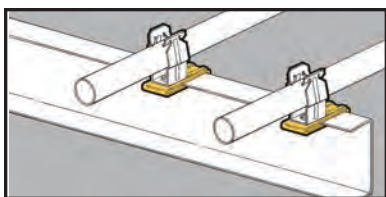


- For fastening standard 1 1/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits 9/16" thru 5/8" channel flange widths.
- Static Load Capacity: 100 Lbs.

## Rod & Wire Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119880	BL1	Channel to Rod & Wire	100



- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with 1/4"-20 screw (furnished).
- Fits channel flange widths up to 5/8".

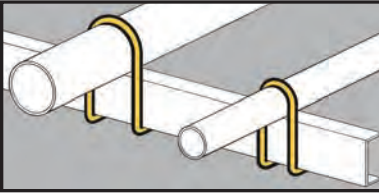
## Flange Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119881	BL2	Flange Fastener with Screw	100

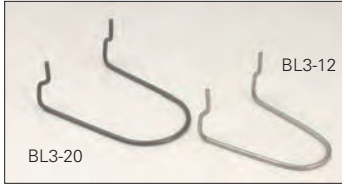
Note: This product is designed for positioning only. No load rating.

# Lathers Channel



- Fastens EMT to 1 1/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- Finish: Zinc Plated

## Conduit Fasteners



UPC/Part Number	Catalog Number	EMT Conduit Size	Box Qty.
78101119902	<b>BL3-8</b>	1/2"	100
78101119903	<b>BL3-12</b>	3/4"	100
78101119904	<b>BL3-16</b>	1"	100
78101119905	<b>BL3-20</b>	1 1/4"	100

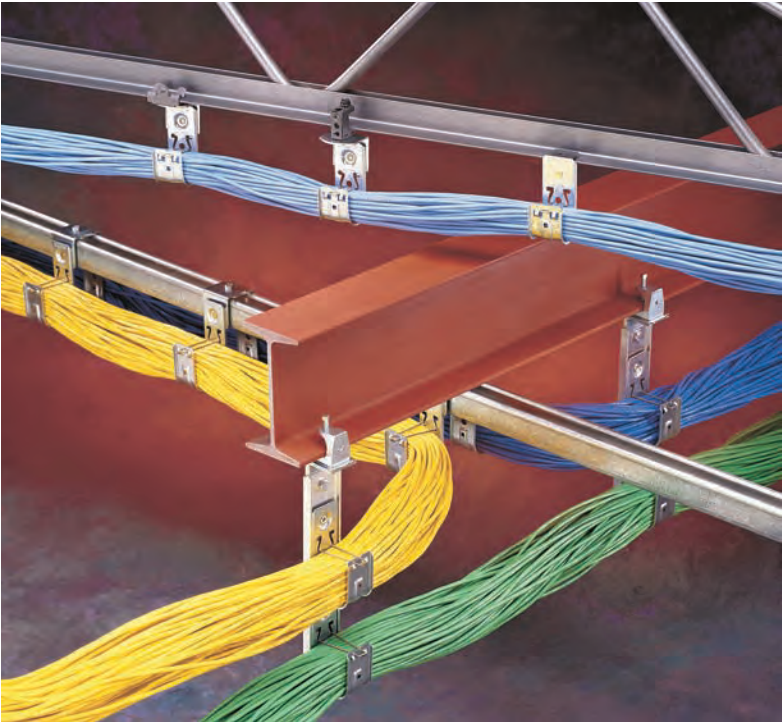
Lathers Channel

Read safety/installation instruction sheets in packages before use.

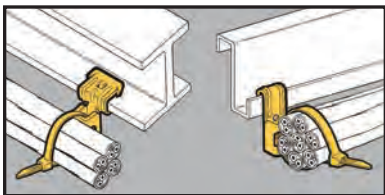


# Communication & Low Voltage

Communication & Low Voltage



# Communication & Low Voltage



- Supports cable ties up to  $\frac{9}{32}$ " wide from flanges  $\frac{1}{16}$ " to  $\frac{3}{4}$ " thick.
- 8" cable tie included.
- Simply installed with a hammer.

## Cable Fasteners

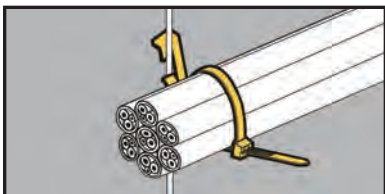


BE Series



BF Series

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119970	<b>BE-2-4-CT2</b>	$\frac{1}{8}$ " to $\frac{1}{4}$ "	100
78101119971	<b>BE-5-8-CT2</b>	$\frac{5}{16}$ " to $\frac{1}{2}$ "	100
78101119972	<b>BE-9-12-CT2</b>	$\frac{9}{16}$ " to $\frac{3}{4}$ "	100
78101119968	<b>BF1-CT2</b>	$\frac{1}{16}$ " to $\frac{5}{32}$ "	100
78101119969	<b>BF2-CT2</b>	$\frac{5}{32}$ " to $\frac{1}{4}$ "	100



- Supports cable ties up to  $\frac{9}{32}$ " wide from drop wires.
- 8" cable tie included.

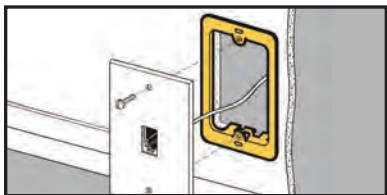
## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102866	<b>BW2-CT2</b>	#12 wire thru $\frac{1}{4}$ " plain or threaded rod	100
78101195603	<b>BW6-CT2</b>	$\frac{3}{8}$ " plain or threaded rod	100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora®\* style cover plates.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

## Cover Plate Mounting Brackets



BB10



BB10-2



BB10-3



BB10-4



BB20

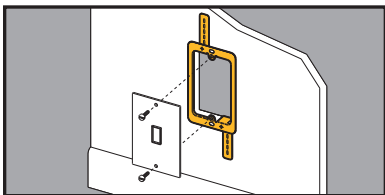
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118150	<b>BB10</b>	Single Gang Bracket	50
78101118152	<b>BB10-2</b>	Mounts Two (2) Single Plates	10
78101119878	<b>BB10-3</b>	Mounts Three (3) Single Plates	10
78101119879	<b>BB10-4</b>	Mounts Four (4) Single Plates	10
78101118130	<b>BB20</b>	Double Gang Bracket	10

Patent # Re.33305

\* Decora® is a registered trademark of Leviton Corporation.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

## Cover Plate Mounting Bracket

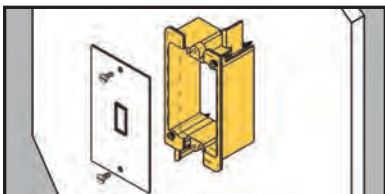


BB10L



BB20L

UPC/Part Number	Catalog Number	Description	Box Qty.
78101190895	BB10L	Single Gang Bracket	50
78101190896	BB20L	Double Gang Bracket	50



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- Maximum wall thickness: 3/4"

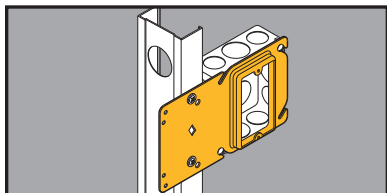
## Plastic Cover Plate Mounting Bracket



UPC/Part Number	Catalog Number	Description	Box Qty.
78205139235	BB10P	Single Gang Bracket	50

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Uni-Mount offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- Finish: Pre-galvanized

## Uni-Mount Box Support/Cover Plate Mounting Brackets



Single Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	<b>BB40-08</b>	1/2" Raise	50
78205122771	<b>BB40-10</b>	5/8" Raise	50
78205122772	<b>BB40-12</b>	3/4" Raise	50

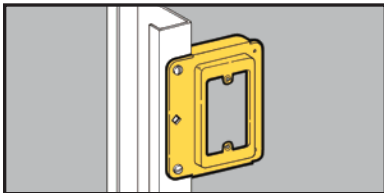


Double Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122773	<b>BB45-08</b>	1/2" Raise	50
78205122774	<b>BB45-10</b>	5/8" Raise	50
78205122775	<b>BB45-12</b>	3/4" Raise	50

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage

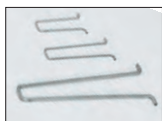
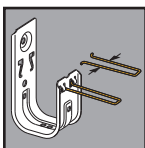


## Cover Plate Mounting Bracket



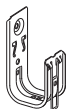
- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	<b>BB15</b>	Single Gang Stud Bracket	25

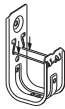


## Replacement Cable Retainer Clips

- Cable retainer clips are included with all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- Finish: Pre-galvanized



Retainer in open position



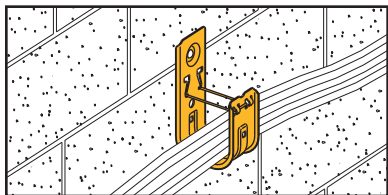
Push retainer down to lock

UPC/Part Number	Catalog Number	Cable Retainer For Hook Size	Box Qty.
78101104847	<b>BCHR21</b>	1/2" Raise	50
78101104848	<b>BCHR32</b>	5/8" Raise	50
78101104849	<b>BCHR64</b>	3/4" Raise	50

Patent #5961081

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Supports Cat. 5/5e/6/6A fiber optic, innerduct and low voltage cabling requirements.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-Galvanized

## Cable Hooks

Communication & Low Voltage

BCH12



Open



Closed



BCH21



BCH32



BCH64



UPC/Part Number	Catalog Number	Hook Size	Capacity Up To	Box Qty.
78205128060	<b>BCH12</b>	3/4"	16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6	50
78101104713	<b>BCH21</b>	1 <sup>5</sup> / <sub>16</sub> "	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78101104713	<b>BCH32</b>	2"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78101104713	<b>BCH64</b>	4"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

Patent #5961081

**For special finish colors see page 156**

(See pages 239-240 for technical data.)



## Painted Cable Hooks

- Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.
- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW  
Brown - BR  
Computer White - CW  
Equipment Blue - BL  
Flat Black - FB

Green - GR  
Orange - OR  
Regal Red - RR  
Safety Yellow - YL  
Telcom Gray - TG

Part # Example:

Painted Cable Hook Part Number - BCH32BW

Painted Cable Hook Assembly - BCH32BW-U24



## J-Hook Color ID Clip

- Color-coded clips allow for content designation without inventorying various colored hardware.
- Easy to designate pathways to prevent crossover.
- Order separately and field install.
- Can be snapped on J-Hook after it has been installed.
- Manufactured from Underwriters Laboratories (UL) Listed material for plenum spaces.
- Suitable for 3/4", 1<sup>5</sup>/<sub>16</sub>", 2", and 4" J-Hook sizes.
- Available in six (6) colors:  
Blue (BL), White (WH), Gray (GY), Orange (OR), Red (RD), and Yellow (YW).

Part # Example:

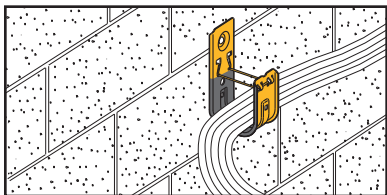
Blue Colored ID Clip Part Number

BCHID-BL12 - blue clip for BCH12 J-Hook

Read safety/installation instruction sheets in packages before use.



# Communication & Low Voltage



## X-Hook Low Friction Cable Hooks

- Xylan® coating provides smooth frictionless surface for cable pulling.
- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon®.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



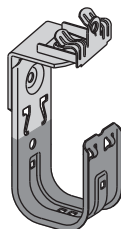
Cable rollers are too expensive and require installation and removal.

UPC/Part Number	Catalog Number	Hook Size	Capacity	Box Qty.
78205129940	<b>BCH21X</b>	1 <sup>5</sup> / <sub>16</sub> "	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78205129941	<b>BCH32X</b>	2"	80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78205129942	<b>BCH64X</b>	4"	300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

Note: For cable hook assemblies with X-Hooks add an X to the part number.

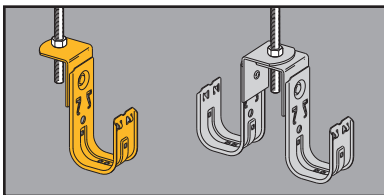
Example: BCH32X-U-2-4

(See pages 239-240 for technical data.)



Xylan® is a registered trademark used by Whitford Corporation  
Teflon® is a registered trademark used by DuPont®

# Communication & Low Voltage

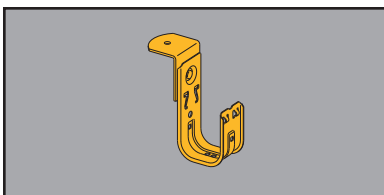


## Cable To ATR Fasteners



- .505" diameter hole designed to support cable from 3/8" or 1/2" threaded rod.
- Allows back-to-back and multi-tier installations.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78101104725	<b>BCH21-AB</b>	15/16"	.505" Diameter	50
78101104729	<b>BCH32-AB</b>	2"	.505" Diameter	50
78101104732	<b>BCH64-AB</b>	4"	.505" Diameter	25



## Angle Bracket Cable Fasteners



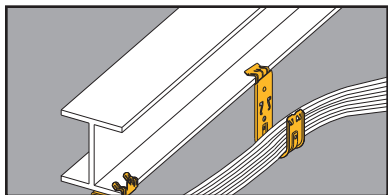
- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78205128089	<b>BCH12-RB</b>	3/4"	.265" Diameter	50
78101104735	<b>BCH21-RB</b>	15/16"	.265" Diameter	50
78101104738	<b>BCH32-RB</b>	2"	.265" Diameter	50
78101104742	<b>BCH64-RB</b>	4"	.265" Diameter	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

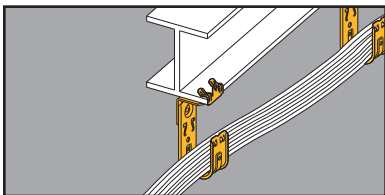
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128067	<b>BCH12-E-2-4</b>	3/4"	1/8" to 1/4"	50
78205128072	<b>BCH12-E-5-8</b>	3/4"	5/16" to 1/2"	50
78205128073	<b>BCH12-E-9-12</b>	3/4"	9/16" to 3/4"	50
78101104803	<b>BCH21-E-2-4</b>	1 5/16"	1/8" to 1/4"	50
78101104805	<b>BCH21-E-5-8</b>	1 5/16"	5/16" to 1/2"	50
78101104807	<b>BCH21-E-9-12</b>	1 5/16"	9/16" to 3/4"	50
78101104825	<b>BCH32-E-2-4</b>	2"	1/8" to 1/4"	50
78101104827	<b>BCH32-E-5-8</b>	2"	5/16" to 1/2"	50
78101104829	<b>BCH32-E-9-12</b>	2"	9/16" to 3/4"	50

(See pages 239-240 for technical data.)

# Communication & Low Voltage



## Cable To Beam Fasteners

- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



Allows  
360°  
Rotation



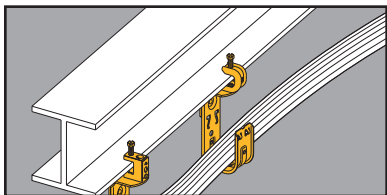
Communication & Low Voltage

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128062	<b>BCH12-U-2-4</b>	3/4"	1/8" to 1/4"	50
78205128064	<b>BCH12-U-5-8</b>	3/4"	5/16" to 1/2"	50
78205128066	<b>BCH12-U-9-12</b>	3/4"	9/16" to 3/4"	50
78101104809	<b>BCH21-U-2-4</b>	1 5/16"	1/8" to 1/4"	50
78101104811	<b>BCH21-U-5-8</b>	1 5/16"	5/16" to 1/2"	50
78101104813	<b>BCH21-U-9-12</b>	1 5/16"	9/16" to 3/4"	50
78101104831	<b>BCH32-U-2-4</b>	2"	1/8" to 1/4"	50
78101104833	<b>BCH32-U-5-8</b>	2"	5/16" to 1/2"	50
78101104835	<b>BCH32-U-9-12</b>	2"	9/16" to 3/4"	50
78101104864	<b>BCH64-U-2-4</b>	4"	1/8" to 1/4"	25
78101104865	<b>BCH64-U-5-8</b>	4"	5/16" to 1/2"	25
78101104866	<b>BCH64-U-9-12</b>	4"	9/16" to 3/4"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage

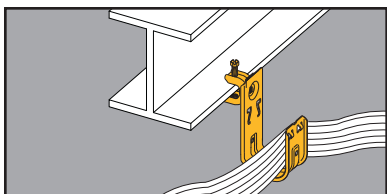


## Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128077	<b>BCH12-C442</b>	3/4"	1/8" to 5/8"	50
78101104823	<b>BCH21-C442</b>	1 5/16"	1/8" to 5/8"	50
78101104845	<b>BCH32-C442</b>	2"	1/8" to 5/8"	50
78101104868	<b>BCH64-C442</b>	4"	1/8" to 5/8"	25



## Cable To Beam Fasteners

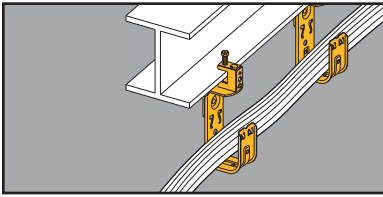


- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141850	<b>BCH12-C442A</b>	3/4"	1/8" to 5/8"	50
78205141851	<b>BCH21-C442A</b>	1 5/16"	1/8" to 5/8"	50
78205141852	<b>BCH32-C442A</b>	2"	1/8" to 5/8"	50
78205141853	<b>BCH64-C442A</b>	4"	1/8" to 5/8"	25

(See pages 239-240 for technical data.)

# Communication & Low Voltage

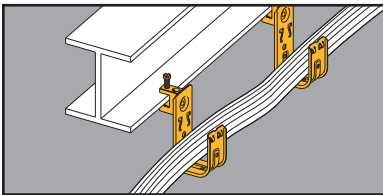


## Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128074	<b>BCH12-C2</b>	3/4"	thru 1/2"	50
78101104821	<b>BCH21-C2</b>	15/16"	thru 1/2"	50
78101104843	<b>BCH32-C2</b>	2"	thru 1/2"	50
78101104867	<b>BCH64-C2</b>	4"	thru 1/2"	25



## Cable To Beam Fasteners

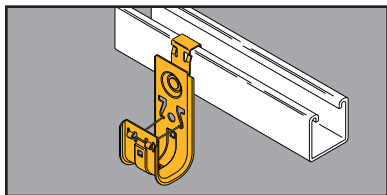


- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141303	<b>BCH12-C1</b>	3/4"	thru 1/2"	50
78101195578	<b>BCH21-C1</b>	15/16"	thru 1/2"	50
78101195560	<b>BCH32-C1</b>	2"	thru 1/2"	50
78205141304	<b>BCH64-C1</b>	4"	thru 1/2"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



## Cable Hook To Strut Attachment

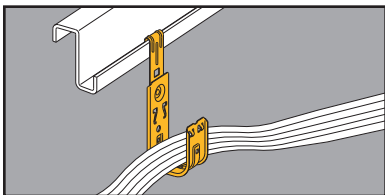
- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Cable retainer clips are included with hooks.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Cable Hook Size	Box Qty.
78205146574	<b>BCH12-SC4</b>	3/4"	50
78205146575	<b>BCH21-SC4</b>	15/16"	50
78205146576	<b>BCH32-SC4</b>	2"	50
78205146583	<b>BCH64-SC4</b>	4"	50

(See pages 239-240 for technical data.)

# Communication & Low Voltage

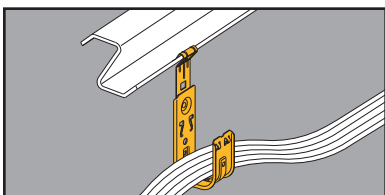


- Supports cable from vertical flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

## Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128078	<b>BCH12-F3</b>	3/4"	1/16" to 1/4"	50
78101104815	<b>BCH21-F3</b>	15/16"	1/16" to 1/4"	50
78101104837	<b>BCH32-F3</b>	2"	1/16" to 1/4"	50
78101104869	<b>BCH64-F3</b>	4"	1/16" to 1/4"	25



- Supports cable from angled flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

## Cable To Flange Fasteners



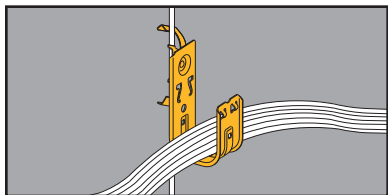
UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128079	<b>BCH12-F4</b>	3/4"	1/16" to 1/4"	50
78101104817	<b>BCH21-F4</b>	15/16"	1/16" to 1/4"	50
78101104839	<b>BCH32-F4</b>	2"	1/16" to 1/4"	50
78101104870	<b>BCH64-F4</b>	4"	1/16" to 1/4"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



# Communication & Low Voltage



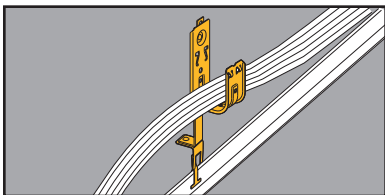
## Cable To Wire and Rod Fasteners



- Supports cable from #12 wire thru  $\frac{3}{8}$ " threaded rod.
- Cable retainer clips are included with hooks.
- W2 series attaches to #12 wire thru  $\frac{1}{4}$ " plain or threaded rod.
- W6 series attaches to  $\frac{3}{8}$ " plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78205146573	<b>BCH12-W2</b>	$\frac{3}{4}$ "	50
78101104819	<b>BCH21-W2</b>	$\frac{15}{16}$ "	50
78101104841	<b>BCH32-W2</b>	2"	50
78205128082	<b>BCH12-W6</b>	$\frac{3}{4}$ "	50
78101195567	<b>BCH21-W6</b>	$\frac{15}{16}$ "	50
78101195569	<b>BCH32-W6</b>	2"	50

(See pages 239-240 for technical data.)



## Cable To T-Bar Fasteners

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

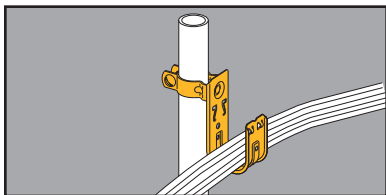


UPC/Part Number	Catalog Number	Description	Box Qty.
78205128083	BCH12-A28	3/4"	50
78101104857	BCH21-A28	15/16"	50
78101104858	BCH32-A28	2"	50

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage

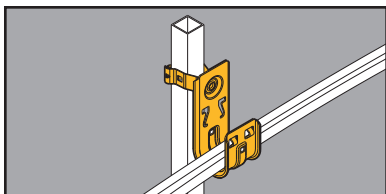


## Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128085	<b>BCH12-L1410</b>	3/4"	1" O.D.	50
78101104851	<b>BCH21-L1410</b>	15/16"	1" O.D.	50
78101104855	<b>BCH32-L1410</b>	2"	1" O.D.	50
78101104871	<b>BCH64-L1410</b>	4"	1" O.D.	25



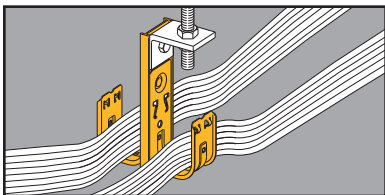
## Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128086	<b>BCH12-G-8-12</b>	3/4"	1" Square	50
78101172487	<b>BCH21-G-8-12</b>	15/16"	1" Square	50
78101172489	<b>BCH32-G-8-12</b>	2"	1" Square	50
78101172491	<b>BCH64-G-8-12</b>	4"	1" Square	25

(See pages 239-240 for technical data.)



## Double-Sided Multi-Tier Cable Fasteners



1D



2D

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- Shown with optional BCHK2 kit.
- Cable retainer clips are included with hooks.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized

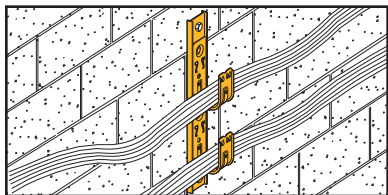
UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104758	<b>BCH21-1D</b>	1 <sup>5</sup> / <sub>16</sub> "	1 Tier, 2-Sided, 5 <sup>1</sup> / <sub>2</sub> " High	20
78101104762	<b>BCH32-1D</b>	2"	1 Tier, 2-Sided, 6 <sup>3</sup> / <sub>16</sub> " High	25
78101104874	<b>BCH64-1D</b>	4"	1 Tier, 2-Sided, 9" High	10
78101104766	<b>BCH21-2D</b>	1 <sup>5</sup> / <sub>16</sub> "	1 Tier, 2-Sided, 9 <sup>1</sup> / <sub>4</sub> " High	10
78101104770	<b>BCH32-2D</b>	2"	1 Tier, 2-Sided, 11" High	10
78101104875	<b>BCH64-2D</b>	4"	1 Tier, 2-Sided, 18 <sup>1</sup> / <sub>4</sub> " High	10

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



## Single-Sided Multi-Tier Cable Fasteners

- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Cable retainer clips are included with hooks.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)



2S



3S



UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104773	<b>BCH21-2S</b>	1 <sup>5</sup> / <sub>16</sub> "	2 Tier, 1-Sided, 11" Overall Height	20
78101104776	<b>BCH32-2S</b>	2"	2 Tier, 1-Sided, 12 <sup>3</sup> / <sub>4</sub> " Overall Height	25
78101195300	<b>BCH64-2S</b>	4"	2 Tier, 1-Sided, 19 <sup>5</sup> / <sub>16</sub> " Overall Height	10
78101104779	<b>BCH21-3S</b>	1 <sup>5</sup> / <sub>16</sub> "	3 Tier, 1-Sided, 14 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101104782	<b>BCH32-3S</b>	2"	3 Tier, 1-Sided, 17 <sup>1</sup> / <sub>2</sub> " Overall Height	10
78101195303	<b>BCH64-3S</b>	4"	3 Tier, 1-Sided, 28 <sup>1</sup> / <sub>16</sub> " Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)

# Communication & Low Voltage



4S



5S



6S



Communication & Low Voltage

UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104785	<b>BCH21-4S</b>	1 <sup>5</sup> / <sub>16</sub> "	4 Tier, 1-Sided, 18 <sup>1</sup> / <sub>2</sub> " Overall Height	10
78101104788	<b>BCH32-4S</b>	2"	4 Tier, 1-Sided, 21 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101197872	<b>BCH64-4S</b>	4"	4 Tier, 1-Sided, 36 <sup>13</sup> / <sub>16</sub> " Overall Height	10
78101104791	<b>BCH21-5S</b>	1 <sup>5</sup> / <sub>16</sub> "	5 Tier, 1-Sided, 21 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101104794	<b>BCH32-5S</b>	2"	5 Tier, 1-Sided, 27" Overall Height	10
78101104797	<b>BCH21-6S</b>	1 <sup>5</sup> / <sub>16</sub> "	6 Tier, 1-Sided, 26" Overall Height	10
78101104800	<b>BCH32-6S</b>	2"	6 Tier, 1-Sided, 31 <sup>3</sup> / <sub>4</sub> " Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



Shown with  
BRC5  
Brackets



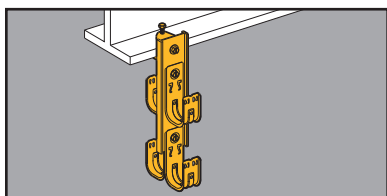
Shown with  
Cable  
Hooks

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from  $\frac{3}{16}$ " ,  $\frac{1}{4}$ " ,  $\frac{5}{16}$ " or  $\frac{3}{8}$ " rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- Load Capacity: 180 lbs.

## Multi-Tier Support Bar



UPC/Part Number	Catalog Number	Description	Box Qty.
78205143819	<b>BCH-HBA</b>	Multi-Tier Support Bar	40



- Support bars furnished in 6063-T6 aluminum.



## Multi-Tier Cable Hook Kits



UPC/Part Number	Catalog Number	Description	Box Qty.
78101199572	<b>BCH-HB21</b>	Support Bar for BCH21 and BCH32 $8\frac{1}{4}$ " long with .281Ø holes	20
78101199574	<b>BCH-HB64</b>	Support Bar for BCH64 $13\frac{5}{16}$ " long with .281Ø holes	20

(See pages 239-240 for technical data.)

## Multi-Tier Attachment Kits

- BCHK1 includes:  
Beam clamp (B444-1/4)  
and 1/4"-20 x 1/2"  
hex head cap screw



BCHK1

- BCHK2 includes:  
Angle bracket (.320"Ø  
and .390"Ø holes) and  
1/4"-20 x 1/2"  
hex head cap screw



BCHK2

- BCHK3 includes:  
1 each BCHK1 Kit and  
BCHK2 Kit



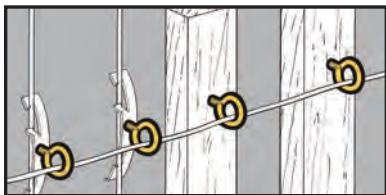
BCHK3

UPC/Part Number	Catalog Number	Kit Description	Flange Thickness	Box Qty.
78101104872	<b>BCHK1</b>	Beam Clamp	Thru 1/2"	10
78101104860	<b>BCHK2</b>	Angle Bracket	--	10
78101104873	<b>BCHK3</b>	Beam Clamp with Angle Bracket (swivels 360°)	Thru 1/2"	10

Read safety/installation instruction sheets in packages before use.



# Communication & Low Voltage



- Supports low voltage communication cables from beams or rods when used with other fasteners.
- *Ultimate Static Load Capacity:* 50 Lbs.
- Finish: Zinc Plated

## Threaded Bridle Rings



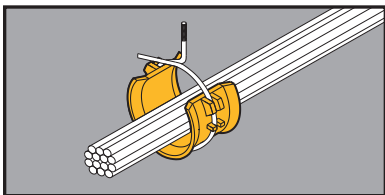
UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119550	<b>BR-8-T</b>	1/2"	#10-24 x 9/16"	100
78101119555	<b>BR-12-T</b>	3/4"	#10-24 x 9/16"	100
78101119560	<b>BR-20-T</b>	1 1/4"	#10-24 x 9/16"	100
78101119570	<b>BR-32-T</b>	2"	#10-24 x 9/16"	100
78101119565	<b>BR-20-4T</b>	1 1/4"	1/4"-20 x 9/16"	100
78101119575	<b>BR-32-4T</b>	2"	1/4"-20 x 9/16"	100
78101119889	<b>BR-64-4T</b>	4"	1/4"-20 x 9/16"	50



Lag Screw  
for Wood  
Beams

UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119875	<b>BR-16-3W</b>	1"	#10 x 9/16"	100
78101119886	<b>BR-24-4W</b>	1 1/2"	1/4" x 27/32"	100
78101119876	<b>BR-32-4W</b>	2"	1/4" x 7/8"	100

# Communication & Low Voltage



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2" saddle is available separately. Can be easily attached before or after cable installation.

## Bridle Ring Saddles



BRS-32A

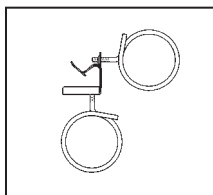


BRS-64A

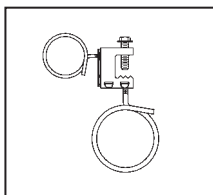
BRS-32

UPC/Part Number	Catalog Number	Thread Size x Thread Length/Description	Box Qty.
78205122761	<b>BRS-32A</b>	1/4"-20 x 7/8" 2" Ring Assembly	50
78205122762	<b>BRS-64A</b>	1/4"-20 x 1" 4" Ring Assembly	25
78205122759	<b>BRS-32</b>	2" Saddle Only	50

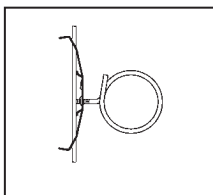
Also available for use with the following B-Line Fasteners.



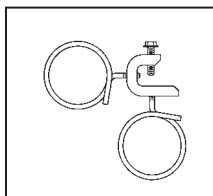
BU-9-12



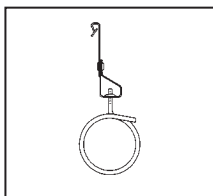
BC1



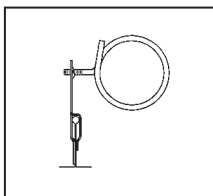
BW2



BC442



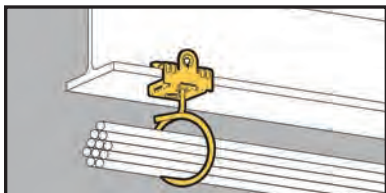
BH4-F3



BA5-4T

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage

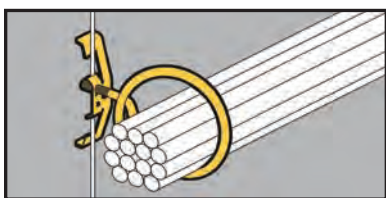


## Bridle Ring/Beam Fastener Assy.



- Supports low voltage communication cables from beam flanges 1/8" to 3/4" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102921	<b>BR-32-4T-U-2-4</b>	1/8" to 1/4"	50
78101102923	<b>BR-32-4T-U-5-8</b>	5/16" to 1/2"	50
78101102924	<b>BR-32-4T-U-9-12</b>	9/16" to 3/4"	50



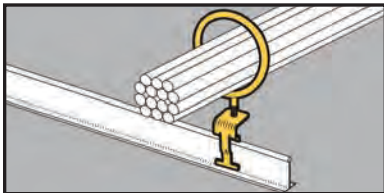
## Bridle Ring/Rod & Wire Fastener Assy.



- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102929	<b>BR-32-4T-W2</b>	#12 Wire Thru 1/4" Plain or Threaded Rod	50

# Communication & Low Voltage

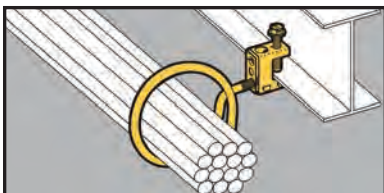


## Bridle Ring/T-Bar Fastener Assembly

- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- For positioning only - No Load Rating



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102934	BR-32-4T-A6	2" Ring Size	50



## Bridle Ring/Beam Fastener Assembly

- Supports low voltage communication cables from beam flanges thru 1/2" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.



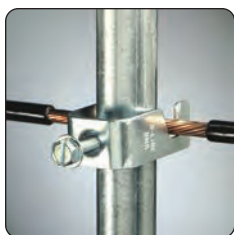
UPC/Part Number	Catalog Number	Description	Box Qty.
78101102937	BR-32-4T-C1	2" Ring Size	50

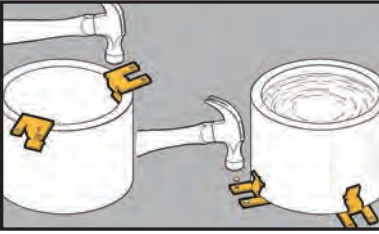
Read safety/installation instruction sheets in packages before use.

# Accessories



Accessories



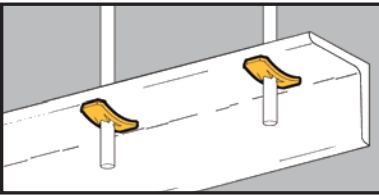


## Pipe Sleeve Fasteners



- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or  $\frac{5}{16}$ " and smaller wall thickness.

UPC/Part Number	Catalog Number	Sleeve Diameter	Wall Thickness	Box Qty.
78101118285	<b>BD40</b>	All Dia.	$\frac{5}{16}$ " & Under	100
78101118285	<b>BD40</b>	2" to 6"	Schedule 40 Pipe	100



## Accessory Nuts



BN-2, BN-4,  
BN-6  
Push Nuts



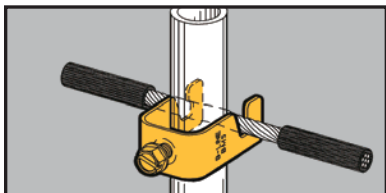
BN1  
"U" Nuts With  
Thread Impression

- Push Nuts designed for use with plain rod.
- "U" Nuts provide  $\frac{1}{4}$ "-20 thread impression for unthreaded hole.
- No installation tools required.

UPC/Part Number	Catalog Number	Rod/Wire Size	Static Load Capacity	Box Qty.
78101110115	<b>BN-2</b>	#8 Wire	100 lbs. thru $\frac{3}{8}$ " hole	100
78101119120	<b>BN-4</b>	$\frac{1}{4}$ " Plain Rod	100 lbs. thru $\frac{3}{8}$ " hole	100
78101119125	<b>BN-6</b>	$\frac{3}{8}$ " Plain Rod	200 lbs. thru $\frac{1}{2}$ " hole	100
78101119110	<b>BN1</b>	$\frac{1}{4}$ " Threaded Rod	50 lbs. on $\frac{9}{32}$ " hole	100

Read safety/installation instruction sheets in packages before use.

# Accessories



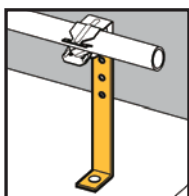
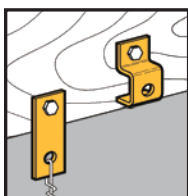
- Attaches signal reference grid wire to computer floor posts.
- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits 3/4" to 1" round or square posts.

## Reference Wire Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101659	<b>BM5</b>	Single Reference Grid Wire Fastener	100

Accessories



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



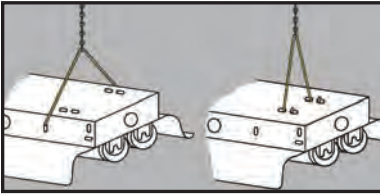
BD4



BA28B

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	<b>BD2</b>	Flat Bracket	100
78101118280	<b>BD4</b>	Offset Bracket	100
78101101449	<b>BA28B</b>	Angle Bracket	50

# Accessories



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

## Light Fixture Hangers

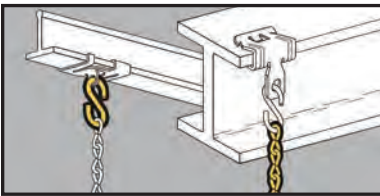


BH15



BH16

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101236	<b>BH15</b>	Side Mount Fluorescent Light Fixture Hanger	100
78101101237	<b>BH16</b>	Top Mount Fluorescent Light Fixture Hanger	100



- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

## Jack Chain & "S" Hooks



BH10

BH9  
BH9-10



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118850	<b>BH9</b>	#12 Single Jack Chain	100 ft.
78101102901	<b>BH9-10</b>	#10 Single Jack Chain	100 ft.
78101118855	<b>BH10</b>	#11 "S" Hook	50

Read safety/installation instruction sheets in packages before use.



# Accessories



## KwikWire™ Clamps

- KwikWire™ system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.



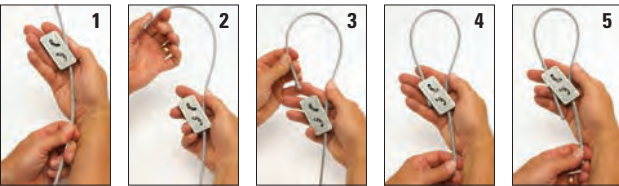
Accessories

UPC/Part Number	Catalog Number	For Use With Wire Rope Diameters	Box Qty.
78205140719	<b>BKC100</b>	1/16" & 3/32"	100
78205140723	<b>BKC200</b>	1/8" & 3/16"	50

### KwikWire Clamp Working Loads\*

Clamp Part No.	Wire Rope Dia.	Lbs. Safety Factor 5
BKC100	1/16"	0-75
	3/32"	25-150
BKC200	3/32"	25-150
	1/8"	25-250
	3/16"	50-640

\* Working loads shown are for hanging vertically.  
 For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart:  
 15° = 96%, 30° = 86%,  
 45° = 70%, 60° = 50%



1. Pass the wire through the KwikWire Clamp
2. Loop wire through/around support
3. Pass wire back through KwikWire Clamp
4. Push wire through clamp leaving 2" to 3" tail, then apply tension on wire
5. To adjust, remove tension and pull wire slightly to disengage teeth, slide adjustment pin in direction shown by arrow to release wire.



7 x 7



7 x 19

## KwikWire™ Wire Rope

UPC/Part Number	Catalog Number	Wire Diameter	Working Load - Lbs.	Spool Qty.
78205140725	<b>BKW063</b> (1)	1/16"	96	500 ft.
78205140727	<b>BKW094</b> (1)	3/32"	184	500 ft.
78205140733	<b>BKW125</b> (1)	1/8"	340	500 ft.
78205140734	<b>BKW188</b> (2)	3/16"	840	250 ft.

(1) Wire rope construction Type 7 x 7

(2) Wire rope construction Type 7 x 19

Uncoated Galvanized Wire



- KwikPak™ includes a supply of kwik-clamps and a spool of wire rope.
- KwikPak are shipped in a specially designed dispenser box to ease field cutting of wire.

## KwikPak™



UPC/Part Number	Catalog Number	Kit Includes	Box Qty.
78205140749	<b>BKP10063</b>	BKC100 (100 pcs.) 1/16" Ø Wire Rope (500 ft.)	1
78205140751	<b>BKP10094</b>	BKC100 (100 pcs.) 3/32" Ø Wire Rope (500 ft.)	1
78205140761	<b>BKP20125</b>	BKC200 (50 pcs.) 1/8" Ø Wire Rope (500 ft.)	1
78205140763	<b>BKP20188</b>	BKC200 (50 pcs.) 3/16" Ø Wire Rope (250 ft.)	1

Read safety/installation instruction sheets in packages before use.

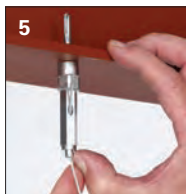
# Accessories



- KwikWire™ hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 182 for wire rope spools.

## KwikWire™ Hanger

UPC/Part Number	Catalog Number	Thread Size	Wire Rope Diameter	Load SF5	Box Qty.
78205158764	<b>BKF100-4</b>	1/4"-20	1/16" 3/32"	45 lbs. 90 lbs.	100
78205158765	<b>BKF100-6</b>	3/8"-16	1/16" 3/32"	45 lbs. 90 lbs.	100



1. Screw KwikWire Hanger into installed hanger support
2. Push wire up through the bottom of KwikWire Hanger
3. Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger
4. To adjust up - pull or push more wire through KwikWire Hanger
5. To adjust down - push up on bottom of KwikWire Hanger and allow wire to feed down
6. When hanging the wire is complete, cut off any excess cable wire if desired

## KwikWire™ Accessories



**BKL Series**

### Loop Termination

- Available as a wire rope with loop termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".



**BKH Series**

### Single & "Y" Style Hook Termination

- Hook designed to accept up to 3/8" diameter wire.
- Available as a wire rope with hook termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles



**BKYH Series**



**BKT Series**

### Single & "Y" Style Toggle Termination

- Available as a wire rope with toggle termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles
- All triple (3) leg styles are non-stock, consult B-Line for lead times



**BKYT Series**



**BKB Series**

### Bolt Loop Termination

- Ideal for use with ARS, ARC, ADI, ACPW, or ACPD anchors.
- Available as a wire rope with bolt termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) styles
- All double (Y) and triple (3) styles are non-stock, consult B-Line for lead times



**BKA Series**

### Angle Bracket Termination

- Available as a wire rope with angle bracket termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".

For additional options, refer to KwikWire Brochure (KWHS)

Read safety/installation instruction sheets in packages before use.

# Accessories



BKCP



B601-62



BKCC

## KwikWire™ Accessories

UPC/Part Number	Catalog Number	Description	Box Qty.
78205140766	<b>BKCP</b>	Air Duct Corner Protector	100
78101156059	<b>B601-62</b>	Air Duct Support	50
78205140297	<b>BKCC *</b>	Wire Rope Cutter	1

*Danger: Never use cutters on energized circuits, wire, or cable.*

*Note: Additional accessories include BE Series (pg. 96), BF Series (pgs. 125 & 129), and BPNA Series (pg. 139)*

*\* Not for use of cutting 3/16" diameter cable.*

### KwikWire™ System Recommendations:

- Do not exceed the safe working load of the products shown in their charts
- All characteristics of KwikWire must be used with wire supplied by B-Line
- Do not use for overhead lifting or hoisting
- Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp
- Do not paint cable near working area of KwikWire Clamp connector
- Do not apply lubricant
- Keep product clean and free of dirt
- Do not use on coated wire rope
- Do not use in chlorinated or caustic atmospheres
- For use in dry locations
- Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying
- For use on vertical applications only

### Application Photos



# Accessories



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101687	<b>SHHMS 1/4x1/2</b>	1/4"-20 x 1/2" Slotted Hex Head Machine Screw	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101142103	<b>MSQN1/4</b>	1/4"-20 Machine Square Nut	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101110675	<b>BWHS-9</b>	Sheet Metal Screw #8 x 9/16"	1000

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104925	<b>BWHS-9D</b>	#8 x 1/2" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.

Read safety/installation instruction sheets in packages before use.

# Anchors



Anchors



## Glossary

Prefix - Description	Screw Dia.	Length	Suffix
ACB - Concrete Anchor Bolt	4 - #4	75 - 3/4"	AN - Acorn Nut
ACPD - Bang-IT	6 - #6	81 - 13/16"	CH - Combo Head
ACPW - Wood-Knocker	8 - #8	87 - 7/8"	F - Flat
ACS - Concrete Screw	10 - #10	100 - 1"	FL - Flanged
ADA - Drive Anchor	12 - 1/8"	118 - 13/18"	H - Hex
ADE - Double Expansion Anchor	18 - 3/16"	125 - 1 1/4"	HN - Hex Nut
ADH - Hollow-Base Drop-IN	25 - 1/4"	150 - 1 1/2"	HS - Hole Saw
ADI - Drop-In	31 - 5/16"	175 - 1 3/4"	K - Kit
ADM - Mini Drop-In	37 - 3/8"	187 - 1 7/8"	M - Mushroom
ADN - Drive Nail	50 - 1/2"	200 - 2"	OH - Oval Head
AMS - Machine Screw	62 - 5/8"	225 - 2 1/4"	PH - Pan Head
APC - Conical Anchor	75 - 3/4"	250 - 2 1/2"	RH - Rod Hanger
APD - Plastic Driller	87 - 7/8"	275 - 2 3/4"	RS - Slotted Round Head
APDM - Plastic Driller - Mini		300 - 3"	
APH - Plastic Hollow Wall Anchor		325 - 3 1/4"	SS4 - 304 Stainless Steel
APS - Plastic Screw Anchor		350 - 3 1/2"	
ARC - Rapid Rod™ Concrete		375 - 3 3/4"	T - Tool
ARS - Rapid Rod™ Steel		400 - 4"	WH - Wire Hanger
ARW - Rapid Rod™ Wood		425 - 4 1/4"	
ASA - Sleeve Anchor		450 - 4 1/2"	
ASE - Single Expansion Anchor		500 - 5"	
ATB - Toggle Bolt		525 - 5 1/4"	
ATM - Self-Tapping Machine Screw Anchor		550 - 5 1/2"	
		600 - 6"	
AWA - Wedge Anchor		700 - 7"	
AWSD - Seismic Wedge Anchor			
AWS - Wall Screw			
AZD - Zinc Driller			
AZDM - Zinc Driller-Mini			



## Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

## Rapid Rod Hangers Steel

### Steel Rapid Rod - Data

Point Style	#3	#5
Self-Drilling Range (in.)	20 ga. - 3/16	3/16 - 1/2
Screw Size (UNC) *	1/4"-20	1/4"-20
Thread Length (in.) *	1 3/16	3 1/32

\* Dimensions for self-drilling (embedded) portion of anchor.

### Steel Rapid Rod - Load Data

Rod/ Anchor Size	Minimum Steel Gauge Thickness						
	20 (.036")	18 (.048")	16 (.060")	14 (.075")	12 (.105")	3/16"	1/4"
1/4	100	155	245	290	390	800	1260
1/4 w/nut	390	390	440	440	510	960	510
3/8	100	155	245	290	390	490	490
3/8 w/nut	365	365	365	365	365	365	365
1/2	120	175	230	390	510	820	1260

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut. UL & FM load rating for 3/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.

UL & FM load rating for 1/2" rapid rod is 900 lbs. and can support up to a maximum 6" pipe.

## Rapid Rod™ Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
<b>Steel Rod Hanger - Point Style #3 For Purlins</b>				
78205153317	<b>ARS-25-100</b>	1/4"	1/4" x 1"	100
78205153318	<b>ARS-37-200</b>	3/8"	1/4" x 2"	100
78205153320	<b>ARS-37-100HN**</b>	3/8"	1/4" x 1" w/nuts	100
78205153321	<b>ARS-37-150</b>	3/8"	1/4" x 1 1/2"	100
78205153322	<b>ARS-37-150HN**</b>	3/8"	1/4" x 1 1/2" w/nuts	100
<b>Steel Rod Hanger - Side Mount - Point Style #3 For Purlins</b>				
78205153323	<b>ARS-25-100SW</b>	1/4"	1/4" x 1"	100
78205153324	<b>ARS-37-100SW</b>	3/8"	1/4" x 1" w/nuts	100
<b>Steel Rod Hanger - Point Style #5 For Purlins</b>				
78205153325	<b>ARS-25-150HD</b>	1/4"	#12-24 x 1 1/2"	100
78205153326	<b>ARS-37-150HDHN**</b>	3/8"	#12-24 x 1 1/2" w/nuts	100
78205153327	<b>ARS-50-150HDHN**</b>	1/2"	#12-24 x 1 1/2" w/nuts	100

\*\* For UL & FM listings, steel rapid rod should be installed with a retaining nut.

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
<b>Tool</b>			
78205153287	<b>7187</b>	Universal Steel & Wood Socket	1

## Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

## Rapid Rod Hangers - Concrete

Concrete Rapid Rod - Data	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Thread Length (in.)	1 1/8	1 3/8	2 1/2
Min. Embedment Depth (in.)	1 1/4	1 1/2	2 3/4
Load Capacity Tension (lbs.) *	485	650	1510
Load Capacity Shear (lbs.) *	610	660	1580

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

FM approved load capacity for 3/8" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for 1/2" anchor is 950 lbs., maximum 8" pipe size.

## Rapid Rod Hangers - Wood

Wood Rapid Rod - Data	1/4" Thread Forming	3/8" Thread Forming
Pre-Drill Diameter (in.)	1/8	1/8
Point Style	Type 17	Type 17

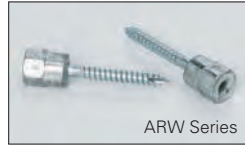
### Wood Rapid Rod - Embedment & Load Data

Rod/Anchor Size	Embedment Depth	Fir	Pine	Spruce
1/4	1"	170	160	160
3/8	2"	375	375	375
1/2	2 1/2"	665	775	775

Minimum load ratings are based on a safety factor of 4.

UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 2 1/2" screw size. Approved for 365 lbs., up to 4" pipe.

## Rapid Rod™ Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
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### Concrete Rod Hanger - ANSI Wedge-Bolt OT Thread Shank Style

78205153328	<b>ARC-25-125</b>	1/4"	1/4" x 1"	100
78205153329	<b>ARC-37-150</b>	3/8"	1/4" x 1 1/2"	100
78205153330	<b>ARC-50-275</b>	1/2"	3/8" x 2 3/4"	50

For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with 1/4" drill bit.

### Wood Rod Hanger - Point Style Type 17

78205153331	<b>ARW-25-200</b>	1/4"	1/4" x 2"	100
78205153332	<b>ARW-37-100</b>	3/8"	1/4" x 1"	100
78205153333	<b>ARW-37-200</b>	3/8"	1/4" x 2"	100
78205153334	<b>ARW-37-250</b>	3/8"	3/8" x 2 1/2"	100
78205153335	<b>ARW-50-250</b>	1/2"	1/2" x 2 1/2"	100

### Wood Rod Hanger - Side Mount - Point Style Type 17

78205153336	<b>ARW-25-100SW</b>	1/4"	1/4" x 1"	100
78205153337	<b>ARW-37-200SW</b>	3/8"	1/4" x 2"	100

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
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### Tools

78205153287	<b>7187</b>	Universal Steel & Wood Socket	1
78205153288	<b>7195</b>	1/4" Concrete Socket	1
78205153289	<b>7197</b>	3/8" Concrete Socket	1
78205153290	<b>7198</b>	1/2" Concrete Socket	1
78205153360	<b>5874</b>	Concrete Tapper Sleeve Assy.	1
78205153361	<b>5866</b>	1/4" X 6" Hex Shank SDS Drill Bit	1

Read safety/installation instruction sheets in packages before use.

# Anchors

## Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.



Drop-In Anchors - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	40	80
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Min. Embedment Depth (in.)	1	19/16	2	2 1/2	3 3/16
Load Capacity Tension (lbs) *	495	1045	1440	1860	3600
Load Capacity Shear (lbs) *	530	1145	1600	3095	3920

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Thread Depth	Box Qty.
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### Drop-In Anchor - Smooth Wall - Steel

78101103218	<b>ADI-25</b>	1/4"	1"	7/16"	100
78101103219	<b>ADI-37</b>	3/8"	1 9/16"	5/8"	50
78101103220	<b>ADI-50</b>	1/2"	2"	1 3/16"	50
78101103221	<b>ADI-62</b>	5/8"	2 1/2"	1 13/16"	25
78101103222	<b>ADI-75</b>	3/4"	3 3/16"	1 3/8"	10

### Drop-In Anchor - Smooth Wall - StainlessSteel

78101103223	<b>ADI-25SS4</b>	1/4"	1"	7/16"	100
78101103224	<b>ADI-37SS4</b>	3/8"	1 9/16"	5/8"	50
78101103226	<b>ADI-50SS4</b>	1/2"	2"	1 3/16"	50
78101103227	<b>ADI-62SS4</b>	5/8"	2 1/2"	1 13/16"	25
78101103228	<b>ADI-75SS4</b>	3/4"	3 3/16"	1 3/8"	10

### Drop-In Hanger - Flanged - Steel

78205153297	<b>ADI-25FL</b>	1/4"	1"	7/16"	100
78205153298	<b>ADI-37FL</b>	3/8"	1 9/16"	5/8"	50
78205153299	<b>ADI-50FL</b>	1/2"	2"	1 3/16"	50

UPC/Part Number	Catalog Number	Rod Size	Pin Length	Box Qty.
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### Setting Tools

78101103229	<b>6305</b>	1/4"	39/64"	1
78101103231	<b>6307</b>	3/8"	61/64"	1
78101103232	<b>6309</b>	1/4"	1 3/16"	1
78101103233	<b>6311</b>	1/4"	1 5/15"	1
78101103234	<b>6313</b>	1/4"	1 61/64"	1

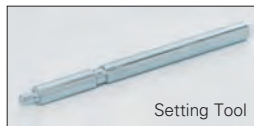
Read safety/installation instruction sheets in packages before use.

## Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.



Anchor



Setting Tool

Mini Drop-In Anchors - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8
Max. Tightening Torque (ft-lbs)	3	5	10
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	5/8	3/4	1
Load Capacity Tension (lbs) *	350	530	840
Load Capacity Shear (lbs) *	415	1055	1220

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Thread Depth	Box Qty.
<b>Mini Drop-In Anchor - Steel</b>				
78205153300	<b>ADM-25</b>	1/4"	3/8"	100
78205153302	<b>ADM-37</b>	3/8"	13/32"	50
78205153302	<b>ADM-50</b>	1/2"	5/8"	50
<b>Setting Tools</b>				
78205153301	<b>6336</b>	1/4"	—	1
78205153303	<b>6323</b>	3/8"	—	1
78205153305	<b>6338</b>	3/8"	—	1

Read safety/installation instruction sheets in packages before use.

## Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.



Anchor



Setting Tool

Hollow Base Drop-In - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	5/8	3/4
Max. Tightening Torque (ft-lbs)	5	10	20
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Thread Length In Cone (in.)	3/8	5/8	3/4
Min. Embedment Depth (in.)	3/4	1	1 1/2
Load Capacity Tension (lbs) *	285	520	1005
Load Capacity Shear (lbs) *	300	640	1005

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Overall Length	Sleeve Length	Box Qty.
<b>Hollow Base Drop-In</b>					
78205153291	<b>ADH-25</b>	1/4"	7/8"	5/8"	100
78205153293	<b>ADH-37</b>	3/8"	15/16"	15/16"	50
78205153294	<b>ADH-50</b>	1/2"	1 3/4"	1 1/4"	50
<b>Setting Tools</b>					
78205153292	<b>9323</b>	1/4"	-	-	1
78205153294	<b>9343</b>	3/8"	-	-	1
78205153296	<b>9353</b>	1/2"	-	-	1

## Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



Concrete Screw Bolts - Data	1/4"	3/8"
ACB Drill Bit Size (in.)	1/4	3/8
Concrete Screw Tolerance Range (in.)	0.255 - 0.259	0.385 - 0.389
Min. Embedment Depth (in.)	1	1 1/2
Load Capacity Tension (lbs) *	335	630
Load Capacity Shear (lbs) *	520	1170

\* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Anchor Length	Thread Length	Box Qty.
<b>Screw Type Anchor - Steel</b>				
78205153247	<b>ACB-25-175</b>	1/4" x 1 3/4"	1 5/8"	100
78205153248	<b>ACB-25-225</b>	1/4" x 2 1/4"	2"	100
78205153249	<b>ACB-25-300</b>	1/4" x 3"	2 3/4"	100
78205153250	<b>ACB-37-175</b>	3/8" x 1 3/4"	1 1/2"	50
78205153251	<b>ACB-37-250</b>	3/8" x 2 1/2"	2 1/4"	50
78205153252	<b>ACB-37-300</b>	3/8" x 3"	2 3/4"	50
78205153253	<b>ACB-37-400</b>	3/8" x 4"	3 3/4"	50

UPC/Part Number	Catalog Number	Drill Size	Usable Length	Overall Length	Box Qty.
<b>Drill Bits - Straight Shank Type</b>					
78205153254	<b>1372</b>	1/4"	4"	6"	1
78205153256	<b>1380</b>	3/8"	4"	6"	1
<b>Drill Bits - SDS Type</b>					
78205153255	<b>1314</b>	1/4"	4"	6"	1
78205153257	<b>1316</b>	3/8"	4"	6"	1

**Note:** Matched tolerance bits must be used for installation.

Read safety/installation instruction sheets in packages before use.



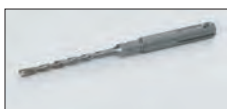
# Anchors

## Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit



SDS Hex Drill Bit



Hex Head

Hex Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Width (in.)	1/4	5/16
Washer O.D. (in.)	11/32	13/32
Washer Thickness (in.)	1/32	1/32
Hex Driver (in.)	1/4	5/16



Flat Head

Flat Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Phillips Head O.D. (in.)	3/8	1/2
Phillips Head Height (in.)	9/64	3/16
Phillips Bit Size	2	3

Embedment Depth	Nominal Anchor Dia. / Loading*			
	3/16" Tension	3/16" Shear	1/4" Tension	1/4" Shear
1"	90	175	265	205
1 1/4"	175	230	335	355
1 3/8"	215	230	370	385
1 1/2"	255	230	405	355
1 3/4"	375	235	435	370

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

## Concrete Screws

UPC/Part Number	Catalog Number	Size	Box Qty.
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### Hex Head Concrete Screws

78101103342	<b>ACS-18-125H</b>	3/16" x 1 1/4"	100
78101103343	<b>ACS-18-175H</b>	3/16" x 1 3/4"	100
78101103344	<b>ACS-18-225H</b>	3/16" x 2 1/4"	100
78101103346	<b>ACS-18-275H</b>	3/16" x 2 3/4"	100
78101103347	<b>ACS-18-325H</b>	3/16" x 3 1/4"	100
78101103348	<b>ACS-18-375H</b>	3/16" x 3 3/4"	100
78101103349	<b>ACS-18-400H</b>	3/16" x 4"	100
78101103342	<b>ACS-25-125H</b>	1/4" x 1 1/4"	100
78101103343	<b>ACS-25-175H</b>	1/4" x 1 3/4"	100
78101103344	<b>ACS-25-225H</b>	1/4" x 2 1/4"	100
78101103346	<b>ACS-25-275H</b>	1/4" x 2 3/4"	100
78101103347	<b>ACS-25-325H</b>	1/4" x 3 1/4"	100
78101103348	<b>ACS-25-375H</b>	1/4" x 3 3/4"	100
78101103349	<b>ACS-25-400H</b>	1/4" x 4"	100

### Flat Head Concrete Screws

78205153259	<b>ACS-18-125F</b>	3/16" x 1 1/4"	100
78205153260	<b>ACS-18-175F</b>	3/16" x 1 3/4"	100
78205153261	<b>ACS-18-225F</b>	3/16" x 2 1/4"	100
78205153262	<b>ACS-18-275F</b>	3/16" x 2 3/4"	100
78205153263	<b>ACS-25-125F</b>	1/4" x 1 1/4"	100
78205153264	<b>ACS-25-175F</b>	1/4" x 1 3/4"	100
78205153265	<b>ACS-25-225F</b>	1/4" x 2 1/4"	100
78205153266	<b>ACS-25-275F</b>	1/4" x 2 3/4"	100

UPC/Part Number	Catalog Number	Bit Size	Usable Length	Box Qty.
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### Straight Shank Drill Bits

78205153267	<b>2782</b>	5/32" x 4 1/2"	3"	1
78205153269	<b>2786</b>	3/16" x 4 1/2"	3"	1

### SDS Hex Drill Bits

78205153268	<b>2793</b>	5/32" x 5"	3"	1
78205153270	<b>2796</b>	3/16" x 5"	3"	1

UPC/Part Number	Catalog Number	Description	Box Qty.
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### Setting Tool

78101103453	<b>2791</b>	ConcreteScrew Tool Kit	100
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Read safety/installation instruction sheets in packages before use.

# Anchors

## Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size  $\frac{9}{32}$ " diameter, head height  $\frac{3}{4}$ ".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



Wedge Expansion Anchor - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Washer O.D. (in.)	5/8	13/16	1 1/16	1 3/4
Wrench Size	7/16	9/16	3/4	15/16
Max. Tightening Torque (ft-lbs)	8	28	60	90
Min. Embedment Depth (in.)	1 1/8	1 5/8	2 1/4	2 3/4
Load Capacity Tension (lbs) *	360	760	1390	2075
Load Capacity Shear (lbs) *	405	940	1700	2975

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

Wire Hanger Wedge Anchor - Data	1/4"
ANSI Drill Bit Size (in.)	1/4
Min. Embedment Depth (in.)	1 1/8
Head Height (in.)	3/4
Load Capacity Tension (lbs) *	360
Load Capacity Shear (lbs) *	405

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Hole Size	Box Qty.
<b>Wire Hanger</b>				
78101103106	<b>AWA-25-200WH</b>	1/4" x 2"	9/32"	100

## Wedge Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Wedge Anchor</b>				
78101103068	<b>AWA-25-175</b>	1/4" x 1 3/4"	3/4"	100
78101103069	<b>AWA-25-225</b>	1/4" x 2 1/4"	1 1/4"	100
78101103070	<b>AWA-25-325</b>	1/4" x 3 1/4"	2 1/4"	100
78101103071	<b>AWA-37-225</b>	3/8" x 2 1/4"	1 1/4"	50
78101103072	<b>AWA-37-275</b>	3/8" x 2 3/4"	1 5/8"	50
78101103073	<b>AWA-37-300</b>	3/8" x 3"	1 7/8"	50
78205153364	<b>AWA-37-350</b>	3/8" x 3 1/2"	2 3/8"	50
78101103074	<b>AWA-37-375</b>	3/8" x 3 3/4"	2 5/8"	50
78101103075	<b>AWA-37-500</b>	3/8" x 5"	3 7/8"	50
78205153366	<b>AWA-50-275</b>	1/2" x 2 3/4"	1 3/8"	50
78101103077	<b>AWA-50-375</b>	1/2" x 3 3/4"	2 3/8"	50
78205145636	<b>AWA-50-450</b>	1/2" x 4 1/2"	3 1/8"	50
78101103079	<b>AWA-50-550</b>	1/2" x 5 1/2"	4 1/8"	50
78101103080	<b>AWA-50-700</b>	1/2" x 7"	5 5/8"	25
78101103081	<b>AWA-62-275</b>	5/8" x 3 1/2"	2"	25
78101103082	<b>AWA-62-375</b>	5/8" x 4 1/2"	3"	25
78101103083	<b>AWA-62-450</b>	5/8" x 5"	3 1/2"	25
78101103084	<b>AWA-62-550</b>	5/8" x 6"	4 1/2"	25
78101103085	<b>AWA-62-700</b>	5/8" x 7"	5 1/2"	25
<b>Wedge Anchor - Stainless Steel</b>				
78101103146	<b>AWA-25-175SS4</b>	1/4" x 1 3/4"	3/4"	100
78101103147	<b>AWA-25-225SS4</b>	1/4" x 2 1/4"	1 1/4"	100
78101103148	<b>AWA-25-325SS4</b>	1/4" x 3 1/4"	2 1/4"	100
78101103149	<b>AWA-37-225SS4</b>	3/8" x 2 1/4"	1 1/4"	50
78101103150	<b>AWA-37-275SS4</b>	3/8" x 2 3/4"	1 5/8"	50
7810110151	<b>AWA-37-300SS4</b>	3/8" x 3"	1 7/8"	50
78205153365	<b>AWA-37-350SS4</b>	3/8" x 3 1/2"	2 3/8"	50
78101103152	<b>AWA-37-375SS4</b>	3/8" x 3 3/4"	2 5/8"	50
78101103153	<b>AWA-37-500SS4</b>	3/8" x 5"	3 7/8"	50
78101103154	<b>AWA-50-275SS4</b>	1/2" x 2 3/4"	1 3/8"	50
78101103155	<b>AWA-50-375SS4</b>	1/2" x 3 3/4"	2 3/8"	50
78205153367	<b>AWA-50-450SS4</b>	1/2" x 4 1/2"	3 1/8"	50
78101103157	<b>AWA-50-550SS4</b>	1/2" x 5 1/2"	4 1/8"	50
78205153368	<b>AWA-50-700SS4</b>	1/2" x 7"	5 5/8"	25
78205153369	<b>AWA-62-275SS4</b>	5/8" x 3 1/2"	2"	25
78205153370	<b>AWA-62-375SS4</b>	5/8" x 4 1/2"	3"	25
78205153779	<b>AWA-62-450SS4</b>	5/8" x 5"	3 1/2"	25
78205153371	<b>AWA-62-550SS4</b>	5/8" x 6"	4 1/2"	25
78205143044	<b>AWA-62-700SS4</b>	5/8" x 7"	5 1/2"	25

Read safety/installation instruction sheets in packages before use.

## Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



<b>Seismic Wedge Anchor - Data</b>	<b>3/8"</b>	<b>1/2"</b>	<b>5/8"</b>	<b>3/4"</b>
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	7/16	9/16	11/16	13/16
Minimum Hole Depth (in.)	2 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	5
Minimum Concrete Thickness (in.)	4	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	7
Max. Tightening Torque (ft-lbs)	20	40	60	110
Min. Embedment Depth (in.)	2 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>

For loading information, see ICC-ES ESR-2502.

## Seismic Wedge Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Seismic Wedge Anchor</b>				
78205153398	<b>AWSD-37-300</b>	3/8" X 3"	1 3/4"	50
78205153399	<b>AWSD-37-350</b>	3/8" X 3 1/2"	2 1/4"	50
78205153400	<b>AWSD-37-375</b>	3/8" X 3 3/4"	2 1/2"	50
78205153401	<b>AWSD-37-500</b>	3/8" X 5"	3 3/4"	50
78205153402	<b>AWSD-50-375</b>	1/2" X 3 3/4"	2 1/8"	50
78205153403	<b>AWSD-50-450</b>	1/2" X 4 1/2"	2 7/8"	50
78205153404	<b>AWSD-50-550</b>	1/2" X 5 1/2"	3 7/8"	50
78205153405	<b>AWSD-50-700</b>	1/2" X 7"	5 3/8"	50
78205153406	<b>AWSD-62-475</b>	5/8" X 4 3/4"	2 7/8"	25
78205153407	<b>AWSD-62-500</b>	5/8" X 5"	3 1/8"	25
78205153408	<b>AWSD-62-600</b>	5/8" X 6"	4 1/8"	25
78205153409	<b>AWSD-62-700</b>	5/8" X 7"	5 1/8"	25
78205153410	<b>AWSD-75-550</b>	3/4" X 5 1/2"	3 1/4"	20
78205153411	<b>AWSD-75-625</b>	3/4" X 6 1/4"	4"	20
78205153425	<b>AWSD-75-700</b>	3/4" X 7"	4 3/4"	20

Read safety/installation instruction sheets in packages before use.

# Anchors

## Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved.
- Made of Zinc Plated carbon steel.



Mushroom Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	7/64
Head Size O.D. (in.)	7/16	1/2
Min. Embedment Depth (in.)	7/8	7/8
Load Capacity Tension (lbs.) *	215	235
Load Capacity Shear (lbs.) *	330	470

Rod Hanger - Data	1/4"	3/8"
ANSI Drill Bit Size (in.)	3/16	1/4
UNC Thread Size	1/4"-20	3/8"-16
Head Height (in.)	1/2	5/8
Head Size O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	1 1/4	1 3/4
Load Capacity Tension (lbs.) *	315	500
Load Capacity Shear (lbs.) *	245	525



Wire Hanger - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Tie-Wire Hole (in.)	3/16	9/32
Head Height (in.)	37/64	41/64
Head Width (in.)	9/64 x 7/16	3/16 x 9/16
Min. Embedment Depth (in.)	1 1/8	1 1/8
Load Capacity Tension (lbs.)*	265	290
Load Capacity Shear (lbs.)*	240	330



\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Read safety/installation instruction sheets in packages before use.

## Drive Anchors

UPC/Part Number	Catalog Number	Size	Box Qty.
<b>Mushroom Head</b>			
78205153271	<b>ADA-18-100</b>	3/16" x 1"	100
78205153272	<b>ADA-18-125</b>	3/16" x 1 1/4"	100
78205153273	<b>ADA-18-150</b>	3/16" x 1 1/2"	100
78205153274	<b>ADA-18-200</b>	3/16" x 2"	100
78205153275	<b>ADA-18-250</b>	3/16" x 2 1/2"	100
78205153276	<b>ADA-18-300</b>	3/16" x 3"	100
78205153278	<b>ADA-25-100</b>	1/4" x 1"	100
78205153279	<b>ADA-25-125</b>	1/4" x 1 1/4"	100
78205153280	<b>ADA-25-150</b>	1/4" x 1 1/2"	100
78205153281	<b>ADA-25-200</b>	1/4" x 2"	100
78205153282	<b>ADA-25-250</b>	1/4" x 2 1/2"	100
78205153283	<b>ADA-25-300</b>	1/4" x 3"	100

UPC/Part Number	Catalog Number	Head Size	Box Qty.
<b>Rod Hanger</b>			
78205153284	<b>ADA-25RH</b>	1/4"	100
78205153286	<b>ADA-37RH</b>	3/8"	100
<b>Wire Hanger</b>			
78205153277	<b>ADA-18WH</b>	3/16"	100
78205153285	<b>ADA-25WH</b>	1/4"	100

Read safety/installation instruction sheets in packages before use.



# Anchors

## Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN)  
Style



Acorn Nut (AN)  
Style



Slotted Round  
Head (RS) Style

Sleeve Type Expansion - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16	15/16
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/2"-13	5/8"-11
Min. Embedment Depth (in.)	5/8	15/8	2 1/4	2 1/4	2 1/4
Load Capacity Tension (lbs) *	155	670	1255	1465	2105
Load Capacity Shear (lbs) *	300	610	1055	1800	2900

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger  
(RH) Style



Wire Hanger  
(WH) Style

Sleeve Type Expansion - Data	Hanger Rod			Wire Hanger
	1/4"	3/8"	1/2"	5/16"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/16
Fixture Clearance Hole (in.)	NA	NA	NA	1/4
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/4"-20
Coupling Height (in.)	7/8	1	1 1/4	NA
Min. Embedment Depth (in.)	5/8	15/8	2 1/4	1 1/2
Load Capacity Tension (lbs) *	155	670	1255	520
Load Capacity Shear (lbs) *	300	610	1055	380

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to [www.cooperblineline.com](http://www.cooperblineline.com).

## Sleeve Type Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Hex Nut Style</b>				
78101102995	<b>ASA-37-187HN</b>	3/8" x 1 7/8"	1 5/8"	50
78101102996	<b>ASA-37-300HN</b>	3/8" x 3"	1 5/8"	50
78205153400	<b>ASA-37-400HN</b>	3/8" x 4"	1 5/8"	50
78101102997	<b>ASA-50-225HN</b>	1/2" x 2 1/4"	2 1/8"	25
78101102998	<b>ASA-50-300HN</b>	1/2" x 3"	2 1/4"	25
78101102999	<b>ASA-50-400HN</b>	1/2" x 4"	2 1/4"	25
78205153351	<b>ASA-50-525HN</b>	1/2" x 5 1/4"	2 1/4"	25
78101103002	<b>ASA-50-600HN</b>	1/2" x 6"	2 1/4"	10
78101103003	<b>ASA-62-225HN</b>	5/8" x 2 1/4"	2 1/8"	25
78101103004	<b>ASA-62-300HN</b>	5/8" x 3"	2 3/4"	25
78101103005	<b>ASA-62-425HN</b>	5/8" x 4 1/4"	2 3/4"	10
78101103006	<b>ASA-62-600HN</b>	5/8" x 6"	2 3/4"	10
78101103007	<b>ASA-75-250HN</b>	3/4" x 2 1/2"	2 1/8"	10
78101103008	<b>ASA-75-425HN</b>	3/4" x 4 1/4"	3 3/8"	10
78101103009	<b>ASA-75-625HN</b>	3/4" x 6 1/4"	3 3/8"	10

### Hex Nut Style - Stainless Steel

78205153343	<b>ASA-37-187HNSS4</b>	3/8" x 1 7/8"	1 5/8"	50
78205153345	<b>ASA-37-300HNSS4</b>	3/8" x 3"	1 5/8"	50
78205153347	<b>ASA-50-225HNSS4</b>	1/2" x 2 1/4"	2 1/8"	25
78205153349	<b>ASA-50-300HNSS4</b>	1/2" x 3"	2 1/4"	25
78205153350	<b>ASA-50-400HNSS4</b>	1/2" x 4"	2 1/4"	25
78205153352	<b>ASA-62-425HNSS4</b>	5/8" x 4 1/4"	2 3/4"	10
78205153353	<b>ASA-75-400HNSS4</b>	3/4" x 4"	3 3/8"	10

### Acorn Nut Style

78205153341	<b>ASA-25-62AN</b>	1/4" x 5/8"	1/2"	100
78101102991	<b>ASA-25-137AN</b>	1/4" x 1 3/8"	1 1/8"	100
78101102992	<b>ASA-25-225AN</b>	1/4" x 2 1/4"	1 1/8"	100

### Slotted Round Head Style

78205153338	<b>ASA-25-112RS</b>	1/4" x 1 1/8"	1"	100
78205153340	<b>ASA-25-200RS</b>	1/4" x 2"	1 1/8"	100

UPC/Part Number	Catalog Number	Size	Drill Diameter	Box Qty.
<b>Rod Hanger</b>				
78205153339	<b>ASA-25-150RH</b>	1/4" x 1 1/2"	5/16"	50
78205153344	<b>ASA-37-187RH</b>	3/8" x 1 7/8"	3/8"	50
78205153348	<b>ASA-50-225RH</b>	1/2" x 2 1/4"	1/2"	25
<b>Wire Hanger</b>				
78205153342	<b>ASA-31-150WH</b>	5/16" x 1 1/2"	5/16"	100

Read safety/installation instruction sheets in packages before use.

# Anchors

## Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Double Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	1/2	5/8	3/4	7/8
Min. Embedment Depth (in.)	1 1/4	1 3/4	2 1/4	2 1/2
Load Capacity Tension (lbs) *	415	875	1625	1750
Load Capacity Shear (lbs) *	405	1000	1540	2855

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
<b>Double Expansion Anchor</b>				
78101103251	<b>ADE-25</b>	1/4"	1 3/8"	50
78101103253	<b>ADE-37</b>	3/8"	2"	50
78101103254	<b>ADE-50</b>	1/2"	2 1/2"	25
78101103256	<b>ADE-62</b>	5/8"	2 3/4"	25

## Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Single Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	5/16	5/16	7/16	5/8
Min. Embedment Depth (in.)	1 3/8	1 5/8	2 1/2	2 3/4
Load Capacity Tension (lbs) *	500	725	1225	2050
Load Capacity Shear (lbs) *	405	950	1540	2855

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
<b>Single Expansion Anchor</b>				
78101103245	<b>ASE-25</b>	1/4"	1 5/16"	50
78101103247	<b>ASE-37</b>	3/8"	1 1/2"	50
78101103248	<b>ASE-50</b>	1/2"	2 1/16"	25
78101103249	<b>ASE-62</b>	5/8"	2 5/8"	25

Read safety/installation instruction sheets in packages before use.

# Anchors

## Wood Knocker™† Anchors

- Wood-Knocker™ concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Wood Knocker™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8
Plastic Flange Diameter (in.)	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Overall Length (in.)	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8
Min. Insert Spacing (in.)	9	9	9	12	12
Min. End Distance (in.)	6	6	6	9	9
Load Capacity Tension (lbs) *	930	1200	1200	1160	1160
Load Capacity Shear (lbs) *	370	1330	1840	2800	2800

\* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum embedment depth is 2".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
<b>Wood Knocker</b>				
78205131147	<b>ACPW-25</b>	1/4"	Brown	100
78205131149	<b>ACPW-38</b>	3/8"	Green	100
78205131151	<b>ACPW-50</b>	1/2"	Yellow	100
78205131152	<b>ACPW-62</b>	5/8"	Red	50
78205131153	<b>ACPW-75</b>	3/4"	Purple	50

† Wood Knocker™ is a registered trademark used by Power® Fasteners, Inc.

## Bang-It™† Anchors

- Bang-It™ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Bang-It™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Metal Hole Saw Diameter (in.)	13/16	13/16	13/16	13/16	13/16	13/16
Drilling Speed (rpm)	700-900	700-900	700-900	500-700	500-700	500-700
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8	1 5/16
Length of Sleeve (in.)	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	7/8"-9
Embedment Depth (in.)	2	2	2	2	2	2
Upper Deck Tension Load (lbs) *	835	1435	1775	2200	2200	2200
Lower Deck Tension Load (lbs) *	835	1115	1115	1115	1115	1115
Upper Deck Shear Load (lbs) *	620	620	620	740	740	740
Lower Deck Shear Load (lbs) *	625	840	840	840	840	840

\* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
<b>Bang-It™</b>				
78205131154	<b>ACPD-25</b>	1/4"	Brown	100
78205131156	<b>ACPD-38</b>	3/8"	Green	100
78205131157	<b>ACPD-50</b>	1/2"	Yellow	100
78205131158	<b>ACPD-62</b>	5/8"	Red	50
78205131166	<b>ACPD-75</b>	3/4"	Purple	50
78205153258	<b>ACPD-87</b>	7/8"	Black	50

### Bang-It™ Hole Saws

78205131169	<b>ACPD-HS813</b>	13/16" Carbide Hole Saw for 1/4", 3/8", 1/2"	1
78205131171	<b>ACPD-HS1188</b>	13/16" Carbide Hole Saw for 5/8", 3/4", 7/8"	1

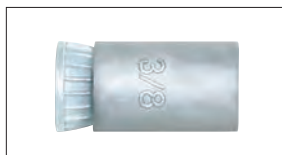
† Bang-It™ is a registered trademark used by Power® Fasteners, Inc.

Read safety/installation instruction sheets in packages before use.

# Anchors

## Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



Machine Screw Anchor - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8
Max. Tightening Torque (ft-lbs)	5	10	15
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	7/8	1 1/4	1 1/2
Load Capacity Tension (lbs) *	585	775	1095
Load Capacity Shear (lbs) *	355	825	1135

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Box Qty.
<b>Machine Screw Anchor</b>			
78101103239	<b>AMS-25</b>	1/4"	100
78101103242	<b>AMS-37</b>	3/8"	50
78101103243	<b>AMS-50</b>	1/2"	50
<b>Setting Tool</b>			
78205109765	<b>9221</b>	1/4"	1
78205109767	<b>9231</b>	3/8"	1
78205109768	<b>9241</b>	1/2"	1

Read safety/installation instruction sheets in packages before use.

## Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- Made of Zinc Plated carbon steel.
- Setting tool included.



Self-Tapping Machine Screw - Data	3/8"
ANSI Drill Bit Size (in.)	1/2
Min. Concrete Thickness (in.)	4
Max. Tightening Torque (ft-lbs)	8
Min. Embedment Depth (in.)	1 5/8
Load Capacity Tension (lbs) *	540
Load Capacity Shear (lbs) *	825

\* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.  
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Size	Thread Depth	Box Qty.
<b>Self-Tapping Machine Screw Anchor</b>				
78205153362	<b>ATM-37</b>	3/8"	1 1/16"	50
<b>Tool</b>				
78205153363	<b>6407 SD</b>	3/8"	--	1

Read safety/installation instruction sheets in packages before use.



# Anchors

## Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



Drive Nail - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Size, O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	3/4	5/8
Load Capacity Tension (lbs) *	125	150
Load Capacity Shear (lbs) *	175	205

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Box Qty.
<b>Drive Nail Anchor</b>			
78101102964	<b>ADN-18-87</b>	3/16" x 7/8"	100
78101102965	<b>ADN-25-75</b>	1/4" x 3/4"	100
78101102966	<b>ADN-25-100</b>	1/4" x 1"	100
78101102967	<b>ADN-25-125</b>	1/4" x 1 1/4"	100
78101102968	<b>ADN-25-150</b>	1/4" x 1 1/2"	100
78101102969	<b>ADN-25-200</b>	1/4" x 2"	100
78205153306	<b>ADN-25-300</b>	1/4" x 3"	100

Read safety/installation instruction sheets in packages before use.

## Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2<sup>1</sup>/<sub>2</sub>".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



Toggle Bolt - Data	3/16"		1/4"		3/8"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	35	35	55	55	60	65
1/2" Wallboard	45	50	60	60	65	75
5/8" Wallboard	60	60	65	65	75	80
3/4" Wallboard	75	70	80	75	85	90
Hollow Concrete Masonry *	70	70	70	120	195	140

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

\* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Drill Diameter	Size	Box Qty.
<b>Toggle Bolt</b>				
78205153354	<b>ATB-18-300</b>	1/2"	3/16" x 3"	50
78205153355	<b>ATB-18-400</b>	1/2"	3/16" x 4"	50
78205153356	<b>ATB-25-300</b>	5/8"	1/4" x 3"	50
78205153357	<b>ATB-25-400</b>	5/8"	1/4" x 4"	50
78205153358	<b>ATB-37-300</b>	7/8"	3/8" x 3"	25
78205153359	<b>ATB-37-400</b>	7/8"	3/8" x 4"	25

Read safety/installation instruction sheets in packages before use.

# Anchors

## Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled  $\frac{3}{16}$ " ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



Wall Screw - Data	Minimum Embedment Depth	Load Cap. Tension (lbs.) *	Load Cap. Shear (lbs.) *
Concrete *	$\frac{3}{4}$ "	90	260
$\frac{1}{2}$ " Wallboard	NA	20	60
$\frac{5}{8}$ " Wallboard	NA	35	90
$\frac{3}{4}$ " Plywood	NA	65	150
Grout-Filled Concrete Masonry	1"	55	165
Hollow Concrete Masonry	1"	60	165
Brick Masonry	$\frac{3}{4}$ "	70	120

\* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

UPC/Part Number	Catalog Number	Size	Head Type	Box Qty.
78205153372	<b>AWS-CH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Combo	100
78205153373	<b>AWS-OH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Oval	100
78205153374	<b>AWS-PH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Pan	100

## Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



Plastic Screw Anchor - Data	APS-4	APS-6	APS-8
Drill Diameter (in.)	3/16	1/4	5/16
Screw Size Range	#4-#10	#6-#12	#8-#14
Min. Thread Length (in.)	1 3/16	1 3/8	1 13/16
Min. Hole Diameter (in.)	1 3/8	1 9/16	2
Min. Wall Thickness (in.)	1/4	3/8	1/2
Min. Embedded Thread Length (in.)	1 7/8	2	2 9/16
Load Capacity Tension (lbs) *	18	20	22
Load Capacity Shear (lbs) *	32	40	45

\* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
<b>Plastic Screw Anchors</b>			
78205153315	<b>APS-4</b>	#4 - #10	100
78205153316	<b>APS-6</b>	#6 - #12	100
78205153319	<b>APS-8</b>	#8 - #14	100

# Anchors

## Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2 1/2".



Plastic Hollow Wall - Data	3/16"	1/4"	3/8"	1/2"
Thread Size (UNC)	3/16"-24	1/4"-20	3/8"-16	1/2"-13
Max. Tightening Torque (ft-lbs)	5	5	5	5
Minimum Clearance (in.)	1 7/8"	1 7/8"	1 7/8"	1 7/8"

Plastic Hollow Wall - Data	3/16"		1/4"		3/8"		1/2"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	30	60	35	70	35	70	35	75
1/2" Wallboard	35	70	35	75	40	75	40	90
5/8" Wallboard	50	95	55	105	55	105	55	110
3/4" Wallboard	50	110	55	120	60	120	60	120
Hollow Concrete Masonry *	215	150	270	285	285	465	345	595

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

\* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Anchor Size	Drill Dia.	Wall Thickness	Box Qty.
78205153311	<b>APH-18</b>	3/16" x 4"	1/2"	3/8" - 2 1/2"	50
78205153312	<b>APH-25</b>	1/4" x 4"	1/2"	3/8" - 2 1/2"	50
78205153313	<b>APH-37</b>	3/8" x 4"	3/4"	3/8" - 2 1/2"	25
78205153314	<b>APH-50</b>	1/2" x 4"	3/4"	3/8" - 2 1/2"	25

## Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in  $\frac{3}{8}$ " to 1" wallboard.
- APDM/AZDM designed for use in  $\frac{3}{8}$ " to  $\frac{5}{8}$ " wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.



Self-Drilling Wallboard Anchor - Data	APD/AZD	APDM/AZDM
Anchor Length (in.)	1 <sup>11</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>
Min. Screw Engagement (in.)	$\frac{3}{4}$	$\frac{3}{4}$

Self-Drilling Wallboard Anchor - Data	APD/AZD		APDM/AZDM	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
$\frac{3}{8}$ " Wallboard	15	15	10	15
$\frac{1}{2}$ " Wallboard	15	20	15	15
$\frac{5}{8}$ " Wallboard	20	25	20	20
$\frac{3}{4}$ " Wallboard	20	25	20	20

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
<b>Self-Drilling Wallboard Anchor</b>			
78101103314	<b>APD-8K</b>	#8 x 1"	50
78101103318	<b>AZD-8K</b>	#8 x 1"	50
78205153310	<b>APDM-6K</b>	#6 x 1"	50
78205153375	<b>AZDM-6K</b>	#6 x 1"	50

Read safety/installation instruction sheets in packages before use.

# Anchors

## Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.



Plastic Conical Anchor - Data	#8		#10 - #12	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
Nominal Weight Concrete *	110	70	140	90
Hollow Concrete Masonry **	60	45	70	55
Clay Brick Masonry ***	30	50	55	65
Minimum Embedment Depth	7/8"	7/8"	1"	1"

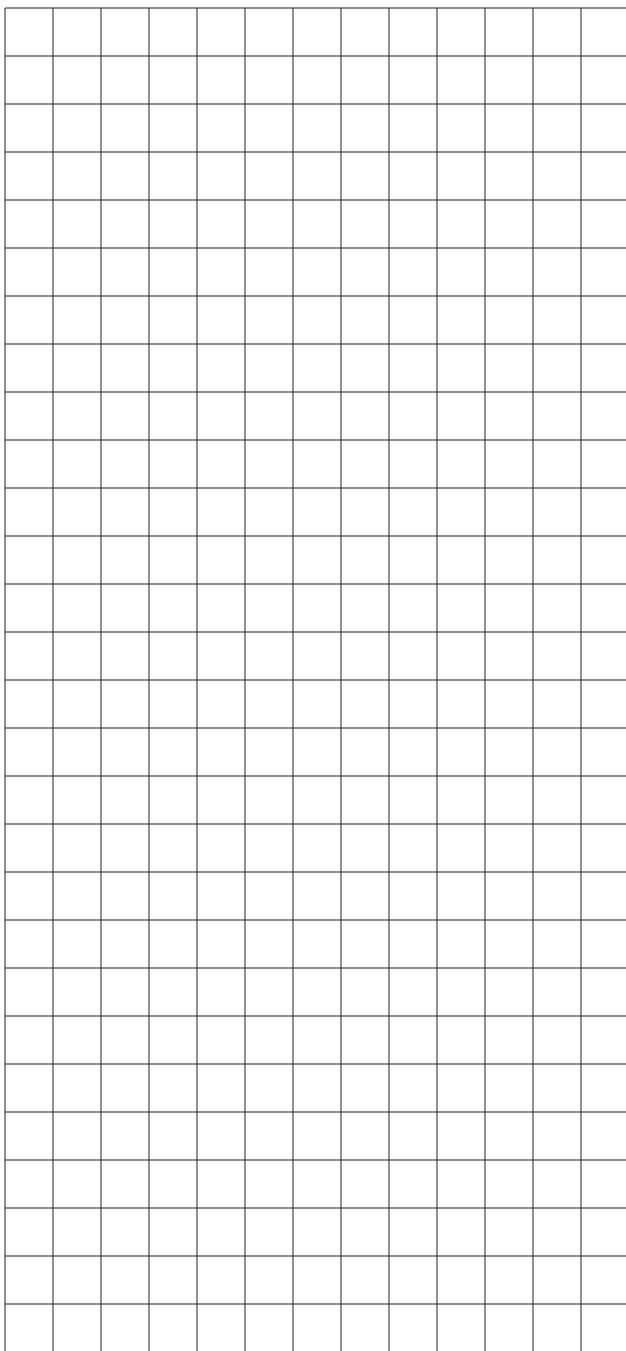
\* Based on concrete compression strength of 4000 psi.

\*\* Based on hollow concrete masonry with minimum compression strength of 1500 psi.

\*\*\* Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
<b>Plastic Conical Anchor</b>			
78205153307	<b>APC-8K</b>	#8 x 1"	100
78205153308	<b>APC-10K</b>	#10 x 1"	100
78205153309	<b>APC-12K</b>	#12 x 1"	100



Anchors



## Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

Eaton's B-Line Business has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact our engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:  
National Fire Protection Association  
1 Batterymarch Park  
P.O. Box 9101  
Quincy, Massachusetts 02269-9101  
1-800-344-3555

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**90.4 Enforcement.** This *Code* is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the *Code* has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

**By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. \***

This *Code* may require new products, constructions, or materials that may not yet be available at the time the *Code* is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this *Code* adopted by the jurisdiction.

## Article 100 - Definitions

**Listed.** Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

**\*Note:** Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.

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## 300.4 Protection Against Physical Damage.

Where subject to physical damage, conductors shall be adequately protected.

### (A) Cables and Raceways through Wood Members.

- (1) **Bored Holes.** . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1<sup>1</sup>/<sub>4</sub> in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (1/16 in.) thick, and of appropriate length and width installed to cover the area of the wiring. (See Figure 1)

*Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.*

*Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.*

- (2) **Notches in Wood.** . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. (See Figure 1)

*Exception: See Exceptions 1 & 2 from (1) Bored Holes*

### (B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.

- (1) **Nonmetallic-Sheathed Cable.** . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. (See Figure 2)

- (2) **Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing.** Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. (See Figure 1)

*Exception: See Exception 2 from (A)(1) Bored Holes*

## (D) Cables and Raceways Parallel to Framing Members and Furring Strips.

... , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm (1<sup>1</sup>/<sub>4</sub> in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm (1<sup>1</sup>/<sub>16</sub> in.) thick

(See Figures 1, 3, 4)

*Exception 1: See Exception 1 from (A)(1) Bored Holes*

*Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.*

*Exception 3: See Exception 2 from (A)(1) Bored Holes*

## (E) Cables and Raceways Installed in Shallow Grooves.

... , shall be protected by 1.6 mm (1<sup>1</sup>/<sub>16</sub> in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm (1<sup>1</sup>/<sub>4</sub> in.) free space for the full length of the groove in which the cable or raceway is installed.

(See Figure 1)

*Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes*

Figure 1 - BM3 & BM3M

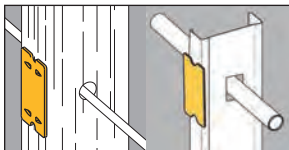


Figure 2 - BM1/BM2

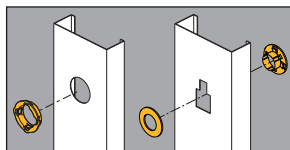
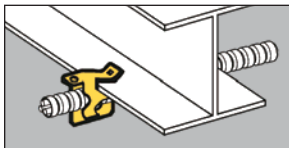


Figure 3 - BRC4 & BRC6M



Figure 4 - BX4



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## 300.11 Securing and Supporting.

**(A) Secured in Place.** Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.

**(1) Fire Rated Assemblies.** Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

**Exception:** *The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.*

**(2) Non-Fire-Rated Assemblies.** Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

**Exception:** *The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.*

**Note:** A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. (See Figures 5 - 8)

## Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. (See Figure 8)

### Upper Attachments

Figure 5 - BE Series

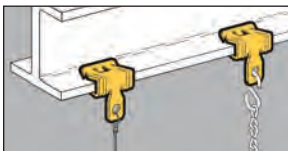


Figure 6 - BF3 Series & BF4 Series

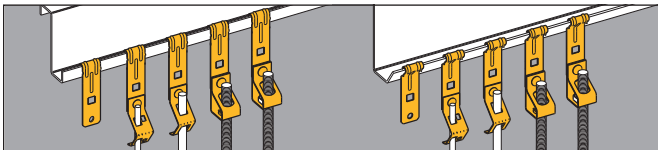


Figure 7 - BG-8-12-S18-W2

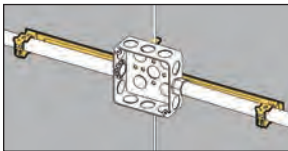
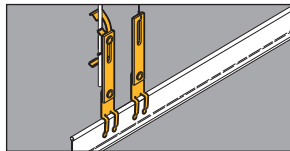


Figure 8 - BA311



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## 310.15 Ampacities For Conductors Rated 0-2000 Volts.

### (B) Tables . . . . .

#### (2) Adjustment Factors.

- (a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a current-carrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

*Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).*

*Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.*

*Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).*

*Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.*

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*Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:*

- (1) Each cable has not more than three current-carrying conductors.
- (2) The conductors are 12 AWG copper.
- (3) Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings".  
(See Figure 9)

*A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.*

- (b) More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.

Figure 9 - Bridle Rings

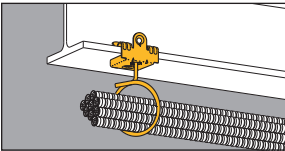
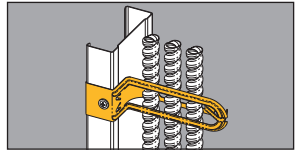


Figure 10 - BRC6M



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# NEC Requirements

**314.23 Supports.** Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).

**(C) Mounting in Finished Surfaces.** An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. *(See Figures 11 & 12)*

**(D) Suspended Ceilings.** An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm<sup>3</sup> (100 in.<sup>3</sup>) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).

**(1) Framing Members.** An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. . . . *(See Figure 13)*

**(2) Support Wires.** The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. *(See Figure 14)*

**(E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), or Lampholders.**

. . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. *(See Figure 15)*

**(F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders.** . . . It

shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. *(See Figure 15)*

## 314.27 Outlet Boxes

**(B) Maximum Luminaire (Fixture) Weight.** Outlet boxes or fitting installed as required by 314.23 shall be permitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. *(See Figure 13)*

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## (D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.

Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

(See Figure 16)

Figure 11 - BB4-23

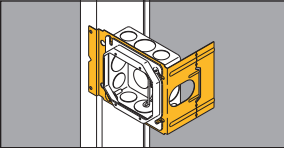


Figure 12 - BB9 & BB12

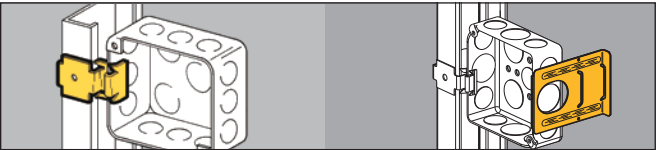


Figure 13 - BA50

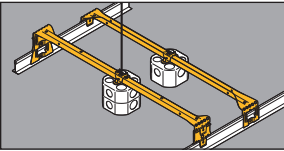


Figure 14 - BG-8-12-S18-W2

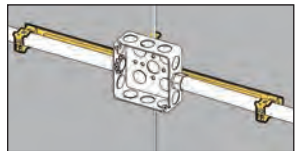


Figure 15 - BG-8-12-S18-U-2-4

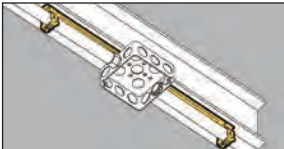
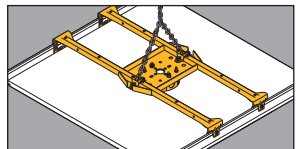


Figure 16 - BA50F



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# NEC Requirements

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## Article 320 Armored Cable : Type AC

### 320.17 Through or Parallel to Framing Members.

Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

### 320.30 Securing and Supporting.

- (A) **General.** Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) where installed on or across framing members. (See Figures 19 -22)
- (C) **Supporting.** Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) intervals.

## Article 330 Metal-Clad Cable : Type MC

### 330.17 Through or Parallel to Framing Members.

Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

### 330.30 Securing and Supporting.

- (A) **General.** Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. (See Figure 19 - 22)
- (C) **Supporting.** Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

## Article 334 Nonmetallic Sheathed Cables

### 334.17 Through or Parallel to Framing Members.

Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or

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parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection.

(See Figures 17 & 18)

**334.30 Securing and Supporting.** Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.

(See Figures 19 - 22)

**(A) Horizontal Runs Through Holes and Notches.**

In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) intervals and the nonmetallic-sheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

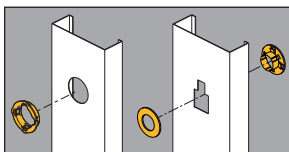


Figure 18 - BM3 & BM3M

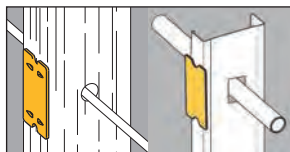


Figure 19 - BG-8-12-H7

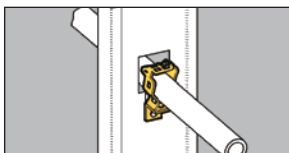


Figure 20 - BRC4 & BRC6M

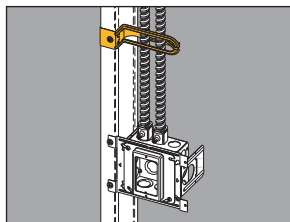


Figure 21 - BX5

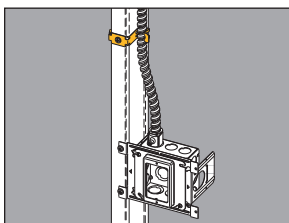
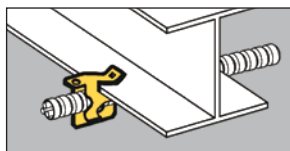


Figure 22 - BX4



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# NEC Requirements

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## Article 344 Rigid Metal Conduit : Type RMC

### 344.30 Securing and Supporting.

**(A) Securely Fastened.** RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast.

*(See Figures 23 - 25)*

**(B) Supports.** RMC shall be supported in accordance with one of the following:

- (1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).
- (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2), . . . .
- (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft) . . . .
- (4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

## Article 348 Flexible Metal Conduit: Type FMC

### 348.30 Securing and Supporting.

**(A) Securely Fastened.** FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft).

*(See Figures 23 - 25)*

**(B) Supports.** Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. *(See Figure 26)*

\* *See NFPA 70-2005 for exceptions.*

## Article 358 Electrical Metallic Tubing - Type EMT

### 358.30 Securing and Supporting.

**(A) Securely Fastened.** EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box,

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device box, cabinet, conduit body, or other tubing termination. (See Figures 23 - 25)

*Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).*

*Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.*

- (B) Supports.** Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

## Article 362 Electrical Nonmetallic Tubing - Type ENT

### 362.30 Securing and Supporting.

- (A) Securely Fastened.** ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. (See Figures 23 - 25)

*Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaires (fixtures) shall be permitted without being secured.*

*Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.*

- (B) Supports.** Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Figure 23 - BG-8-12-S18-U-2-4

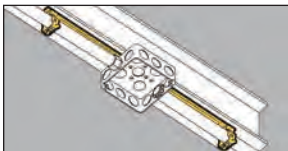


Figure 25 - BG-8-12-B1

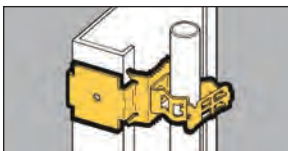


Figure 24 - BB38

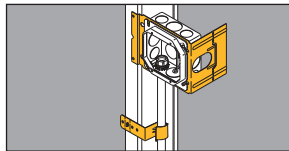
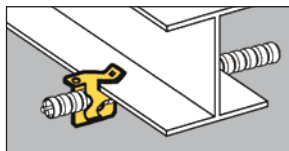


Figure 26 - BX4



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# NEC Requirements

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## Article 410 Luminaries (Lighting Fixtures), Lampholders, and Lamps

### 410.16 Means of Support.

**(A) Outlet Boxes.** Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).

**(C) Suspended Ceilings.** Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets.

**Listed** clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. (See Figures 27 - 31)

**410.104 Fastening.** Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. (See Figure 30)

### 422.18 Support of Ceiling-Suspended (Paddle) Fans

Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). (See Figure 32)

## Article 800 Communication Circuits

### 800.24 Mechanical Execution of Work.

Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.

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Figure 27 - BA15

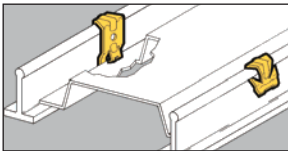


Figure 28 - BA1

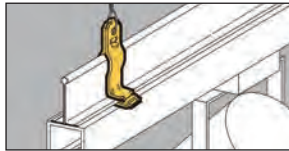


Figure 29 - BA40

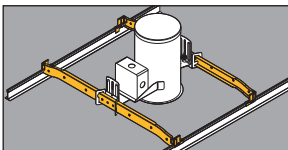


Figure 30 - BA 4-16 Series

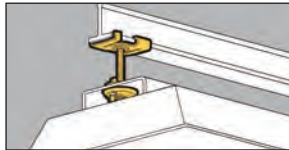


Figure 31 - BAX Series

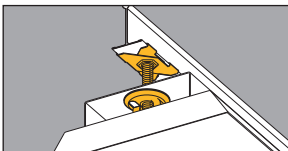
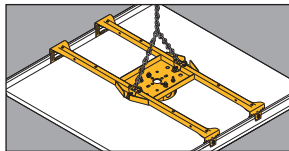


Figure 32 - BA50F



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## ANSI/TIA/EIA-569-A

### 4. Horizontal pathways and related spaces

#### 4.6 Ceiling pathway

##### 4.6.2 Design guidelines

**4.6.2.1 Planning.** The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.

**4.6.2.2 Clearance.** A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. (See Figure 33)

##### 4.6.5 Cable support

**4.6.5.1** Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. (See Figures 33 & 34)

**4.6.5.2** A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. (See Figures 33 & 34)

### NOTES

- 1) A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.
- 2) If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.

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Figure 33 - BCHxx-A28

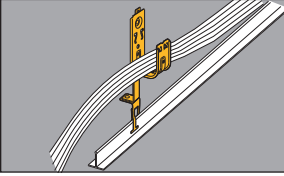
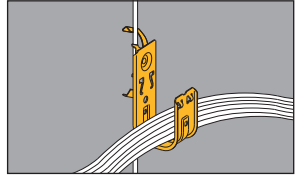


Figure 34 - BCHxx-W2



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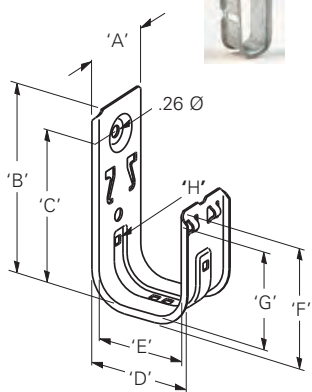
# Reference Data

## Cable Hook Technical Data

### Single-Sided Single-Tier Cable Fasteners

Hook Size	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
In.	In.	In.	In.	In.	In.	In.	In.	In.
3/4	.88	3.18	2.68	1.00	.75	1.69	.94	–
1 <sup>5</sup> / <sub>16</sub>	1.62	3.62	2.81	1.69	1.31	2.00	1.37	.20
2	1.62	4.31	3.50	2.38	2.00	2.69	2.06	.20
4	2.00	6.81	5.56	4.55	4.00	4.84	4.06	.31

BCH12

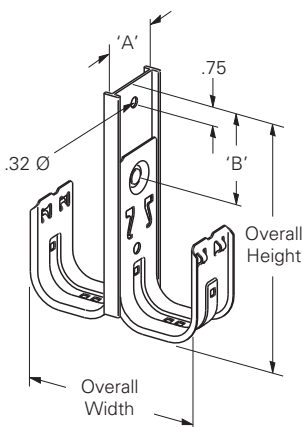


### Load Capacity

Cable Hook Size	Static Load Capacity (S.F. 3)	
	Galvanized & Stainless Steel	Lbs.
In.		
3/4	30	
1 <sup>5</sup> / <sub>16</sub>	30	
2	30	
4	30	

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

### Double-Sided Single-Tier Cable Fasteners

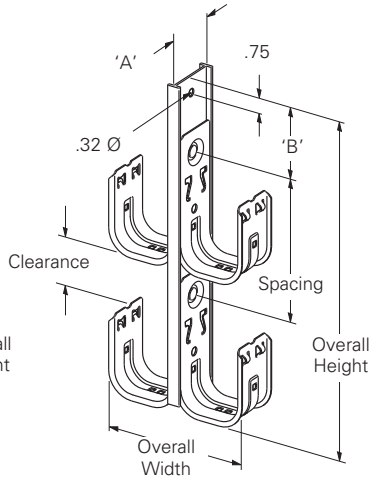
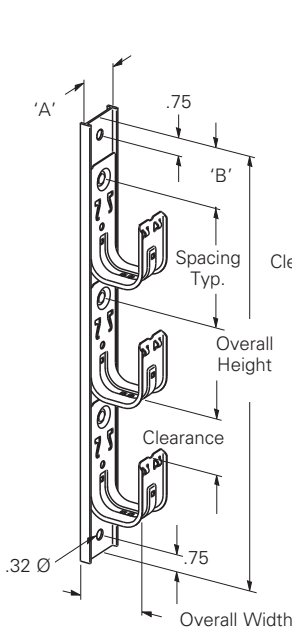


Hook Size	'A'	'B'	Overall Height	Overall Width
In.	In.	In.	In.	In.
1 <sup>5</sup> / <sub>16</sub>	1.90	2.50	5.50	3.47
2	1.90	2.50	6.19	4.85
4	2.38	2.94	9.00	9.19

## Cable Hook Technical Data

### Double-Sided Double-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
15/16	1.90	2.50	3.75	1.94	9.25	3.47
2	1.90	2.50	4.75	2.25	10.94	4.85
4	2.38	2.94	9.38	4.50	18.20	9.19



### Single-Sided Multi-Tier Cable Fasteners (2 thru 6 Tier)

Hook Size In.	No. Tiers	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
15/16	2	1.90	2.50	3.75	1.94	11.00	1.96
	3	1.90	2.50	3.75	1.94	14.75	1.96
	4	1.90	2.50	3.75	1.94	18.50	1.96
	5	1.90	2.50	3.75	1.94	22.25	1.96
	6	1.90	2.50	3.75	1.94	26.00	1.96
2	2	1.90	2.50	4.75	2.25	12.75	2.66
	3	1.90	2.50	4.75	2.25	17.50	2.66
	4	1.90	2.50	4.75	2.25	22.25	2.66
	5	1.90	2.50	4.75	2.25	27.00	2.66
	6	1.90	2.50	4.75	2.25	31.75	2.66
4	2	2.38	2.94	8.75	3.19	19.33	4.82
	3	2.38	2.94	8.75	3.19	28.08	4.82

# Reference Data

## Rigid Steel Conduit (Heavy Wall Conduit)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
3/8	0.675	0.493	51.5	65.1
1/2	0.840	0.632	79.0	101.1
3/4	1.050	0.836	105.0	145.8
1	1.315	1.063	153.0	219.3
1 1/4	1.660	1.394	201.0	318.3
1 1/2	1.900	1.624	249.0	408.8
2	2.375	2.083	332.0	593.8
2 1/2	2.875	2.489	527.0	901.0
3	3.500	3.090	682.0	1259.0
3 1/2	4.000	3.570	831.0	1604.0
4	4.500	4.050	972.0	1967.0

## Intermediate Metal Conduit (IMC)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
1/2	0.815	0.745	60.0	82.1
3/4	1.029	0.954	82.0	122.8
1	1.290	1.205	116.0	182.3
1 1/4	1.638	1.553	150.0	267.3
1 1/2	1.883	1.793	182.0	341.8
2	2.360	2.266	242.0	503.8
2 1/2	2.857	2.727	401.0	775.0
3	3.476	3.346	493.0	1069.0
3 1/2	3.971	3.841	573.0	1346.0
4	4.466	4.336	638.0	1632.0

Dimensions taken from ANSI C80.3 - 1977.

\* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

## Electrical Metallic Tubing (EMT) - Thinwall Conduit

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
3/8	0.577	0.493	23.0	36.6
1/2	0.706	0.622	28.5	50.6
3/4	0.922	0.824	43.5	84.3
1	1.163	1.049	64.0	130.3
1 1/4	1.510	1.380	95.0	212.3
1 1/2	1.740	1.610	110.0	269.8
2	2.197	2.067	140.0	401.8
2 1/2	2.875	2.731	205.0	579.0
3	3.500	3.356	250.0	826.3
3 1/2	4.000	3.834	325.0	1098.0
4	4.500	4.334	370.0	1364.0

## Rigid Aluminum Conduit

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
1/2	0.840	0.632	27.4	49.5
3/4	1.050	0.836	36.4	77.2
1	1.315	1.063	53.0	119.3
1 1/4	1.660	1.394	69.6	186.9
1 1/2	1.900	1.624	82.2	242.0
2	2.375	2.083	115.7	377.5
2 1/2	2.875	2.489	182.5	556.5
3	3.500	3.090	238.9	815.2
3 1/2	4.000	3.570	287.7	1061.0
4	4.500	4.050	340.0	1334.0
5	5.563	5.073	465.4	2028.0
6	6.625	6.093	612.5	2870.0

Dimensions taken from ANSI C80.3 - 1977.

\* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

# Reference Data

## Schedule 40 PVC Plastic Pipe

Nominal Pipe Size In.	Outside Diameter In.	Wall Thickness In.	Weight of Pipe Lbs. Per Ft.	Weight of Water Lbs. Per Ft.
1/8	0.405	0.068	0.04	0.02
1/4	0.540	0.088	0.07	0.04
3/8	0.675	0.091	0.10	0.08
1/2	0.840	0.109	0.15	0.10
3/4	1.050	0.113	0.20	0.20
1	1.315	0.133	0.30	0.40
1 1/4	1.660	0.140	0.40	0.60
1 1/2	1.900	0.145	0.50	0.90
2	2.375	0.155	0.60	1.40
2 1/2	2.875	0.203	1.00	2.10
3	3.500	0.216	1.30	3.20
3 1/2	4.000	0.226	1.60	4.30
4	4.500	0.237	1.90	5.50

## Electrical Non-Metallic Tubing (ENT)

Nominal Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight of Conduit Lbs. Per 100 Ft.	Weight of Conduit and Conductors Lbs. Per 100 Ft.
1/2	0.840	0.560	11.0	33.1
3/4	1.050	0.760	14.0	54.8
1	1.315	1.000	20.0	86.3
1 1/4	1.660	1.402	19.0	136.3
1 1/2	1.990	1.554	27.0	186.8
2	2.375	2.030	32.0	261.8

## All Threaded Rod (ATR)

Thread Size	Root Area	Design Load (SF=5)
1/4"-20	0.027 in. <sup>2</sup>	240 lbs.
5/16"-18	0.045 in. <sup>2</sup>	400 lbs.
3/8"-16	0.068 in. <sup>2</sup>	610 lbs.

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.

## MC -- Metal Clad Cable Specifications

Trade Size	Grounding Conductor AWG	Armor O.D. In.	Approximate Wt. Per 100 Ft. Lbs.
14-2 Solid	14	0.470	17.5
14-3 Solid	14	0.480	20.5
14-4 Solid	14	0.510	23.0
12-2 Solid	12	0.495	21.5
12-3 Solid	12	0.530	25.5
12-4 Solid	12	0.565	29.5
10-2 Solid	10	0.560	28.5
10-3 Solid	10	0.600	34.0
10-4 Solid	10	0.645	39.5
8-2 Stranded	10	0.710	45.0
8-3 Stranded	10	0.770	54.5
8-4 Stranded	10	0.835	64.5
6-2 Stranded	8	0.795	59.0
6-3 Stranded	8	0.865	72.0
6-4 Stranded	8	0.945	86.0
4-2 Stranded	8	0.945	78.5
4-3 Stranded	8	1.035	98.5
4-4 Stranded	8	1.135	119.5
3-3 Stranded	6	1.025	107.0
3-4 Stranded	6	1.120	126.0
2-2 Stranded	6	1.075	104.5
2-3 Stranded	6	1.180	134.0
2-4 Stranded	6	1.295	164.0

## Category 5 Cable

Pair Count	AWG Size	O.D. In.	Weight Lbs. Per 100 Ft.
2	24	0.16	1.3
3	24	0.18	1.7
4	24	0.20	2.1
6	24	0.27	3.5
8	24	0.30	4.2
25	24	0.50	13.0



# Reference Data

## Type NM -- Non-Metallic Sheathed Cable

Size AWG	Number of Strands	Ground Wire Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
Without Ground Wire				
14-2	Solid	–	.17 x .37	5.3
12-2	Solid	–	.19 x .40	7.0
10-2	Solid	–	.22 x .45	10.1
14-3	Solid	–	0.295	8.2
12-3	Solid	–	0.332	10.9
10-3	Solid	–	0.396	15.7
8-3	7	–	0.538	27.8
6-3	7	–	0.611	42.2
With Ground Wire				
14-2	Solid	14	.17 x .37	6.4
12-2	Solid	12	.19 x .41	9.0
10-2	Solid	10	.22 x .49	13.3
8-2	7	10	.28 x .61	21.5
6-2	7	10	.32 x .73	31.3
14-3	Solid	14	.322	9.3
12-3	Solid	12	.363	12.9
10-3	Solid	10	.436	18.7
14-4	Solid	14	.450	11.6
12-4	Solid	12	.490	16.1
10-4	Solid	10	.550	23.3
8-3	7	10	.552	30.5
6-3	7	10	.611	45.0
4-3	7	8	.821	66.4
2-3	7	8	.946	93.0

## Type THHN -- Insulated Single Conductor Building Wire

Trade Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14 AWG	0.11	1.7
12 AWG	0.13	2.5
10 AWG	0.16	4.0
8 AWG	0.22	6.5
6 AWG	0.25	9.7
4 AWG	0.32	15.5
3 AWG	0.35	19.1
2 AWG	0.38	23.6
1 AWG	0.45	30.4
1/0 AWG	0.49	37.5

## AC -- Armored Cable Specifications

Trade Size	Armor O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14-2 Solid	0.433	18.0
14-3 Solid	0.453	20.0
14-4 Solid	0.486	25.0
12-2 Solid	0.467	21.0
12-3 Solid	0.489	24.5
12-4 Solid	0.520	29.0
10-2 Solid	0.476	25.0
10-3 Solid	0.500	29.5
10-4 Solid	0.541	38.0
8-2 Solid	0.570	34.5
8-3 Solid	0.601	41.5
8-4 Solid	0.654	48.0
8-2 Stranded	0.604	34.5
8-3 Stranded	0.637	42.0
8-4 Stranded	0.695	51.5
6-2 Stranded	0.700	44.5
6-3 Stranded	0.739	56.0
6-4 Stranded	0.807	68.5
4-2 Stranded	0.836	62.0
4-3 Stranded	0.885	80.0
4-4 Stranded	0.971	99.5
3-3 Stranded	0.990	94.0
3-4 Stranded	1.085	118.0
2-2 Stranded	0.956	81.5
2-3 Stranded	1.014	109.5
2-4 Stranded	1.115	138.0

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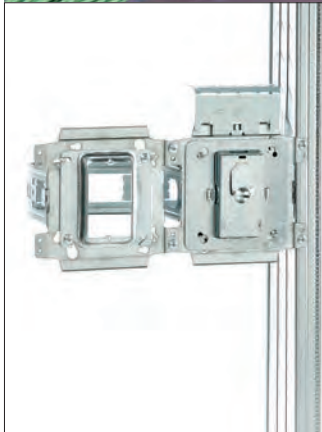
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Fasteners

BLF-14

# Spring steel fasteners



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# Introduction

---

## The support you rely on.

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Within this Spring Steel Fastener catalog, you will find several innovative, time-saving solutions that help drive your bottom line. Below are just a few of our most recent innovative additions.
















- J-Hook color ID system that help verify cables are running in their correct, designated pathways. For more information, visit [www.cooperbline.com/color-id](http://www.cooperbline.com/color-id).
- BB8 Series box mounting bracket with integrated cable containment for lower installed costs. For more information, visit [www.cooperbline.com/BB816](http://www.cooperbline.com/BB816).
- Ruff-IN™ pre-fab systems that can save up to 75% during installation. For more information, visit [www.cooperbline.com/ruff-in](http://www.cooperbline.com/ruff-in).
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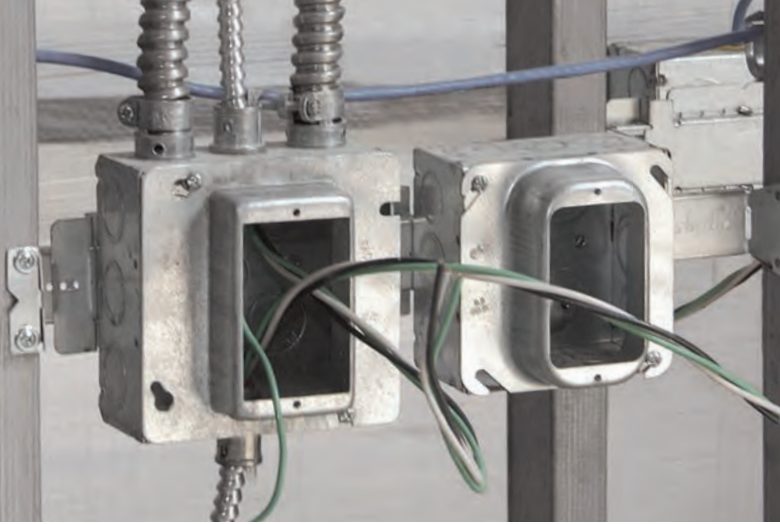
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# Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



**B-Line's Ruff-IN product offering continues to expand with product and assembly options.  
For the latest additions, visit [www.cooperbline.com/ruff-in](http://www.cooperbline.com/ruff-in).**



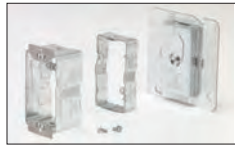
## Complete Pre-Fab Offering

Choose the pre-fab offering below that best fits your needs:

### Basic Ruff-IN

Offering Contents: Bracket, Box, Mud Ring, Ground Wire

- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See pages 5 & 6)



### Ruff-IN with Wiring Devices and/or MC Cable Whips

Offering Contents: Basic Ruff-IN with Wiring Device, Protective Cover Plates, and MC Cable whip with connector(s)

- Assemblies are pre-wired for quick plug and-play installation using Wago™ or wire nut connectors.
- Wiring Device's ArrowLink™ connector offers additional labor savings with its plug in feature. (See page 4 for more details)
- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



### Total Ruff-IN™

Perfect for a contractor that desires take-off services and B-Line engineering support

- Perfect for a contractor interested in trying pre-fab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.



† Wago™ is a trademark used by WAGO® Kontakttechnik GmbH & Co. KG

See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

# Ruff-IN™ Pre-Fab

## Distributor Quick Ship Program

Next Day Shipping Available on

12 Ruff-In Assemblies & 4 Rapid Ring™ Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- Ask your B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.

### Ruff-IN Quick Ship Pre-Fab Assemblies

Part #	UPC #	Max. Order Qty.
<b>BBF Series Floor-mount</b>		
BBF18-1104DA	78205154072	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BBF18-1104D	78205154065	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BBF18-1124DA	78205155199	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BBF18-1124D	78205154176	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
<b>Double-Sided Box Support</b>		
BB76-1104DA	78205155200	100
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB76-1104D	78205138768	25
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB76-1124DA	78205154049	50
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB76-1124D	78205138771	25
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
<b>Telescoping Slider Bracket</b>		
BB216TS-1104DA	78205139289	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB216TS-1104D	78205138619	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB216TS-1124DA	78205139292	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB216TS-1124D	78205138621	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		



BBF18-1104DA



BB216TS-1104D



BB76-1104D

## Rapid Ring™ Quick Ship Pre-Fab Assemblies

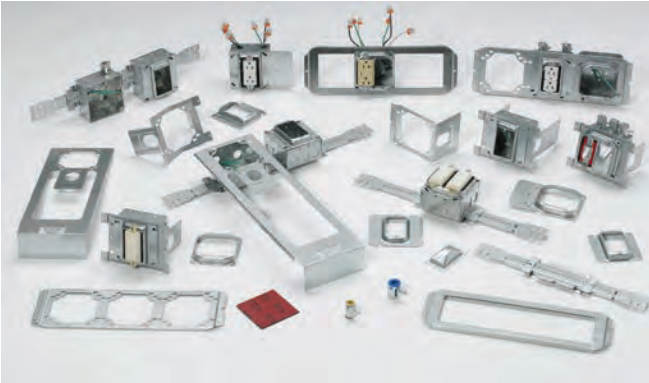
Part #	UPC #	Max. Order Qty.
BB216TS-1RR4DA 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, stranded ground wire	78205176294	50
BB216TS-1RR4D 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, solid ground wire	78205176295	50
BB216TS-2RR4DA 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, stranded ground wire	78205176296	50
BB216TS-2RR4D 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, solid ground wire	78205176297	50



**Telescoping  
Slider Bracket  
with Rapid Ring**

# Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



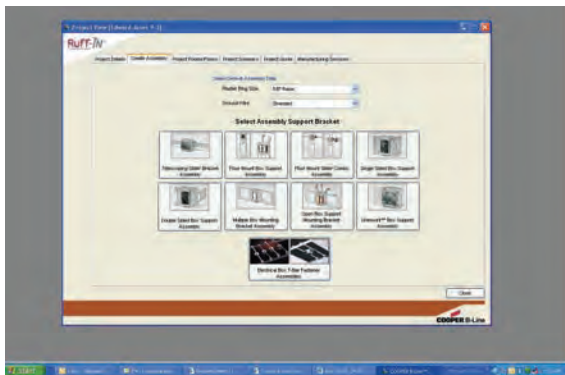
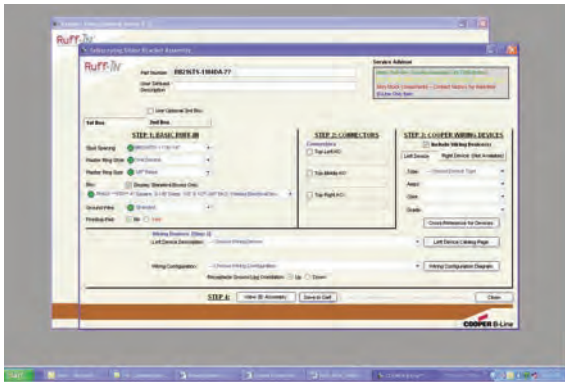
**B-Line's Ruff-IN Configurator** program helps simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

## Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using B-Line's Ruff-IN pre-fabricated wiring assemblies today!

For more information, visit [www.cooperbline.com/ruff-in](http://www.cooperbline.com/ruff-in).



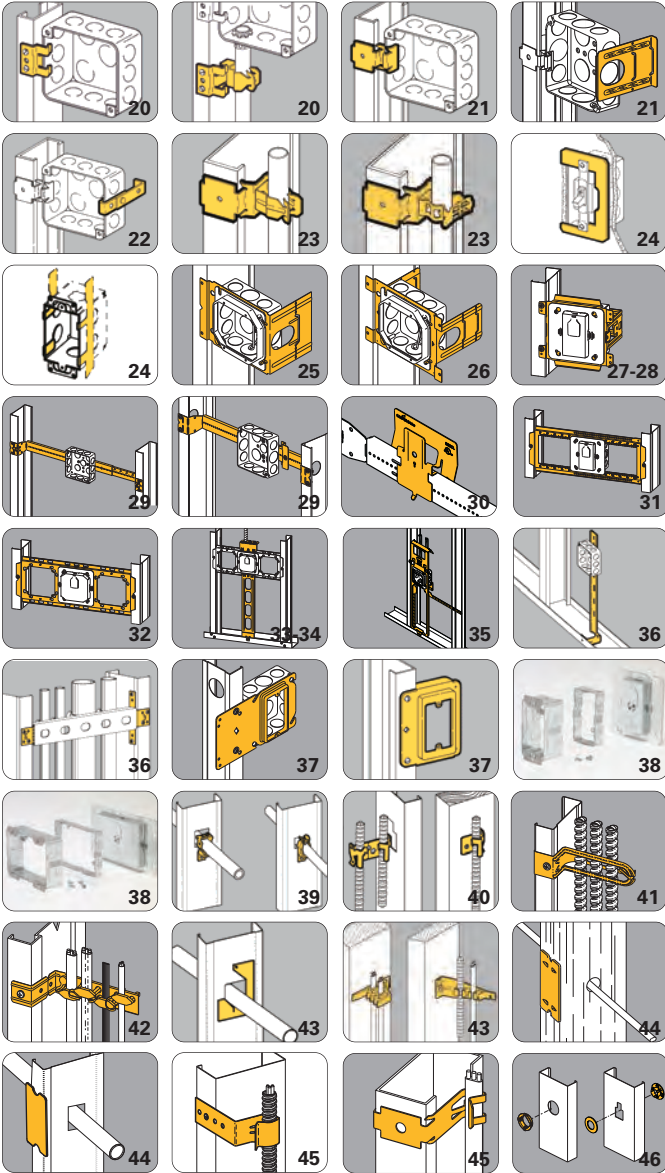
See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.



# Pictorial Index

## Wall Studs

Pictorial Index

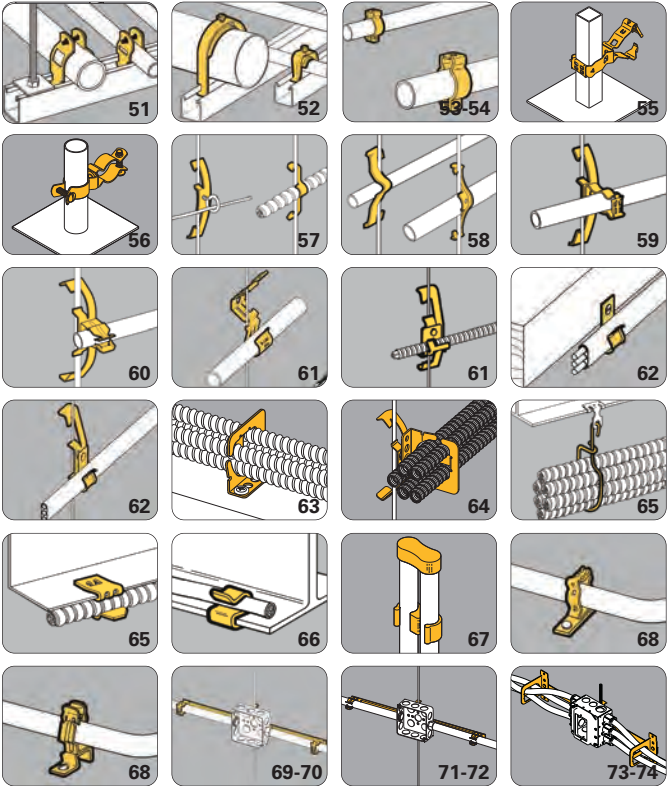


## Conduit & Cable



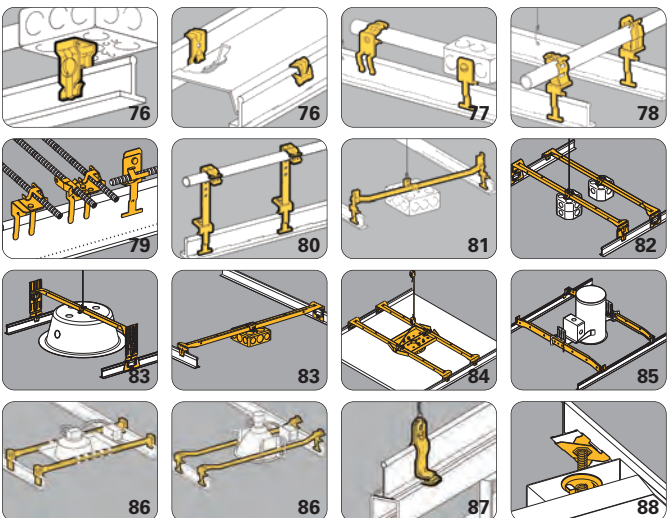
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## Conduit & Cable



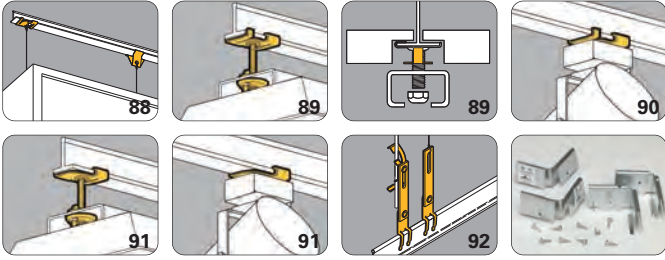
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## Acoustical Tee

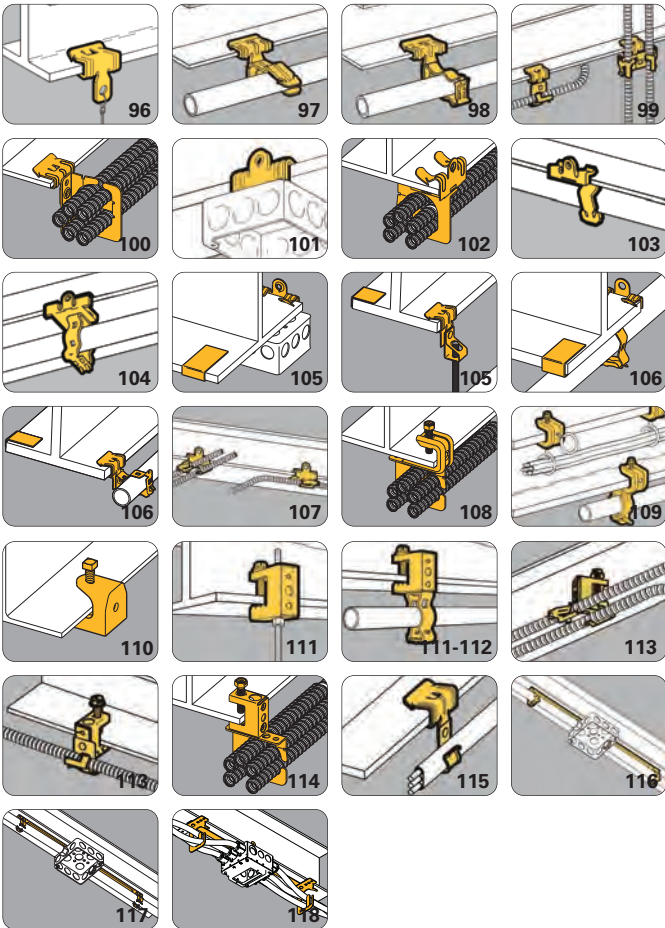


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## Acoustical Tee

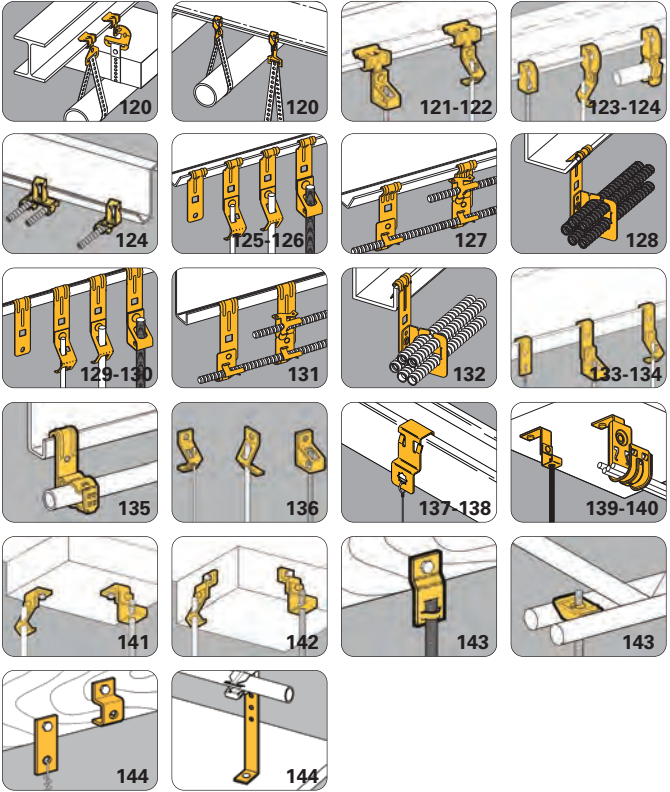


## Beams



# Pictorial Index

## Hangers



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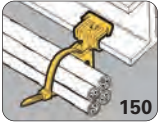
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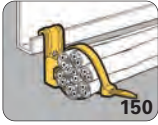
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## Communication & Low Voltage

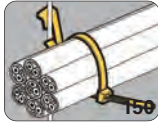
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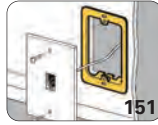
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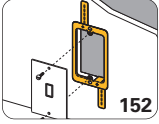
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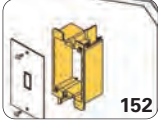
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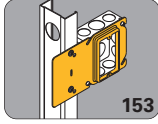
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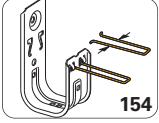
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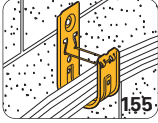
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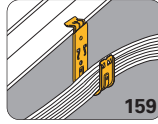
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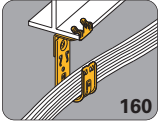
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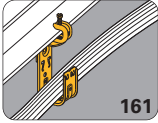
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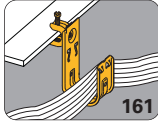
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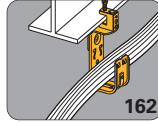
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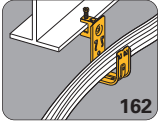
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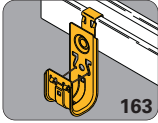
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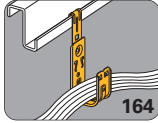
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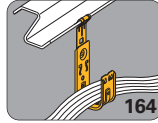
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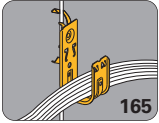
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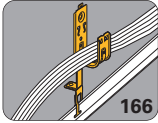
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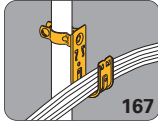
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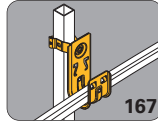
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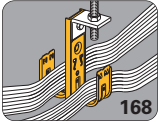
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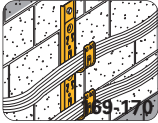
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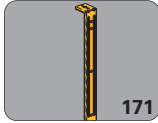
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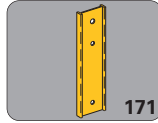
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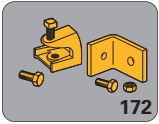
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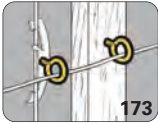
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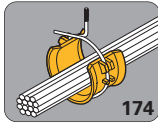
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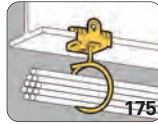
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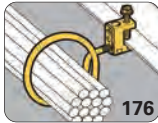
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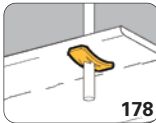


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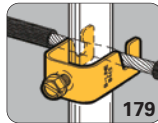
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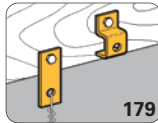
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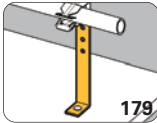
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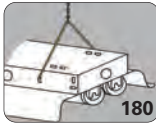
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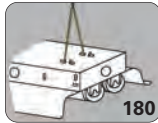
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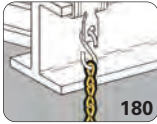
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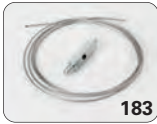
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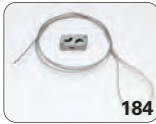
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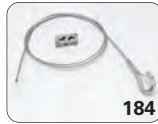
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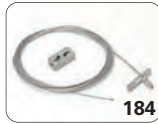
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# Pictorial Index

## Anchors



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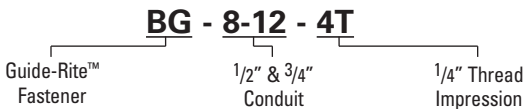
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# Part Numbering Guide

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

<b>BG - 8-12 - 4T</b>		
<b>Family</b>	<b>Size</b>	<b>Suffix</b>
A Series - Anchors	Based on 16th	AS - Anchor Strap
* B Series - Pipe Strap	of an inch	BL - Equipment Blue
BA - Acoustical Tee Component	1 - 1/16"	BN - Brass Nut
BB - Box Attachment	2 - 1/8"	BR - Brown
BC - Beam Clamp	4 - 1/4"	BW - Bright White
* BCH - Cable Hook	5 - 5/16"	CW - Computer White
* BCS/BES - Conduit Spacer	6 - 3/8"	D - Deep Box
BD - Deck Attachment	8 - 1/2"	FB - Flat Black
* BE - Edge Attachment	9 - 9/16"	GR - Green
BF - Flange Attachment	12 - 3/4"	H - Hanger
* BG - Guide-Rite™ Fastener	16 - 1"	LH - Less Hardware
BH - Hanger Attachment	20 - 1 1/4"	LN - Less Nut
BK - KwikWire	24 - 1 1/2"	LS - Less Stud
BL - Conduit Hangers (mini's)	32 - 2"	OR - Orange
BM - Miscellaneous	64 - 4"	R - Right Angle
BN - Push Nuts		RR - Regal Red
* BP - Push Type Fasteners		S - Stud
* BPC - Break Apart Straps		T - Threaded
* BR - Bridle Rings		TG - Telco Gray
BRC - Cable Fastener		W - White
* BRS - Bridle Ring Saddle		WBN - White /Brass Nut
BT - Installation Tools		WN - Wing Nut
* BU - Universal Beam Attachment		YL - Safety Yellow
BW - Bat Wing Fastener		4T - 1/4" Thread Imp.
BX - FMC Support		

\* The data in the size column only applies to these product families.





# Materials

Steel	Specification
High Carbon Cold Rolled	ASTM A684, AISI 1055
Electrolytic Zinc Coated	ASTM A591
Pre-Galvanized	ASTM A653

## Steel

B-Line spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into B-Line products.

## Heat Treatment

B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

## Load Data

The design load ratings for B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

## Quality Assurance

B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.

# Part Numbering Guide

Finish	Specification
Zinc-Phosphate	MIL-P-16232 Type Z
Electro-galvanized Zinc	ASTM B633
Pre-Galvanized Zinc	ASTM A653, G90
Gloss White Paint	Acrylic Enamel

## Zinc Phosphate

B-Line spring steel fasteners receive a coating\* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for B-Line's spring steel fasteners is Zinc Phosphate.

\*At least 1000 milligrams of zinc phosphate per square foot.

## Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

## Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

## Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into B-Line products.

The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

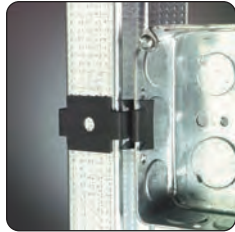
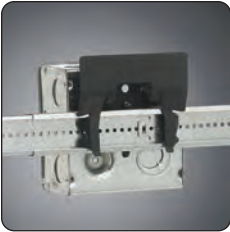
During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

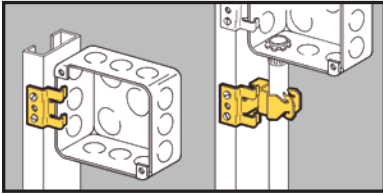
Pre-galvanized steel is recommended for indoor use in dry areas.

**CAUTION: Do not use B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.**

# Wall Studs

Wall Studs





- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite design.
- BP series features push-type design.

## Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118145	BB1	Electrical Box Support Clip	100

## Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118420	<b>BG-6-B1 *</b>	3/8"	100
781011 18475	<b>BG-8-12-B1</b>	1/2", 3/4"	100
781011 18555	<b>BG-16-B1</b>	1"	100

Patent #4958792

- \* BG-6 will accept the following range  $\varnothing$ .420 -  $\varnothing$ .675:  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

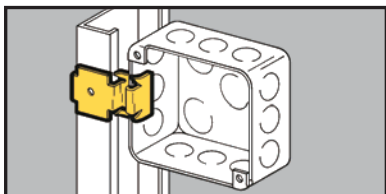
## Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19245	<b>BP-8-B1</b>	1/2" EMT	100
781011 19345	<b>BP-12-B1</b>	3/4" EMT, 1/2" IMC, Rigid	100
781011 19440	<b>BP-16-B1</b>	1" EMT, 3/4" IMC, Rigid	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

## Wall Studs

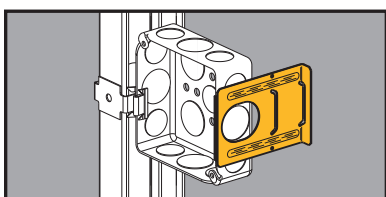


- Attaches electrical boxes (requiring plaster rings) to most metal studs.
- Box mounts flush to back of drywall.
- Simply installed with a hammer.

### Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118270	<b>BB9</b>	Electrical Box Support	100



- Provides far-side support for electrical boxes in 2<sup>1</sup>/<sub>2</sub>" thru 6" studs.
- Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.

### Adjustable Box Stabilizers



BB12

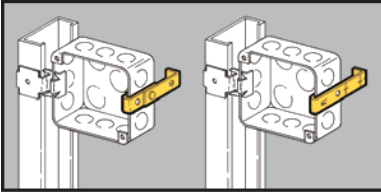


BB12-6



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101192876	<b>BB12</b>	2 <sup>1</sup> / <sub>2</sub> " thru 4"	100
78101192879	<b>BB12-6</b>	6"	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*



- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.

## Box Stabilizer



BF1-96



BF1-64



BF1-56



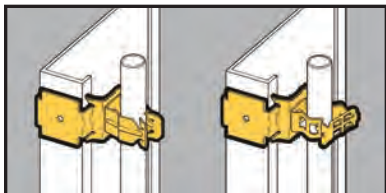
BF1-40



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118320	<b>BF1-40</b>	2 <sup>1</sup> / <sub>2</sub> "	100
78101118325	<b>BF1-56</b>	3 <sup>1</sup> / <sub>2</sub> "	100
78101118330	<b>BF1-64</b>	4"	100
78101118335	<b>BF1-96</b>	6"	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



- Attaches conduit to most metal studs.
- BG Series features Guide-Rite design.
- BP Series feature push-type design.

## Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118425	<b>BG-6-B5 *</b>	3/8" or BX	100
78101118480	<b>BG-8-12-B5</b>	1/2", 3/4"	100
78101118560	<b>BG-16-B5</b>	1"	100
78101118645	<b>BG-20-B5</b>	1 1/4"	50

Patent #4958792

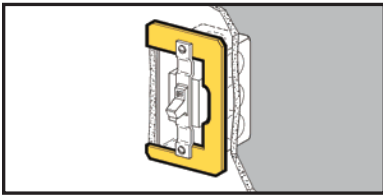
\* BG-6 will accept the following range Ø.420 - Ø.675:  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

## Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119250	<b>BP-8-B5</b>	1/2" EMT	100
78101119350	<b>BP-12-B5</b>	3/4" EMT, 1/2" IMC, Rigid	100
78101119445	<b>BP-16-B5</b>	1" EMT, 3/4" IMC, Rigid	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

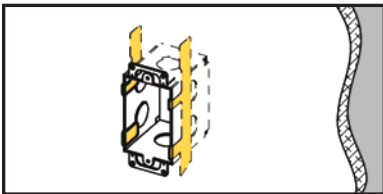


## Retainer Leveler

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized

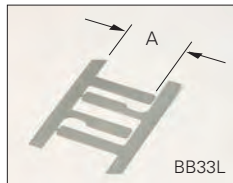
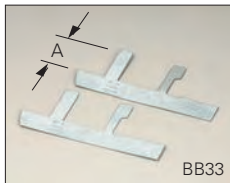


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118215	<b>BB32</b>	Adds Rigidity to Oversize Wall Openings	100



## Box Support

- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- Finish: Pre-Galvanized

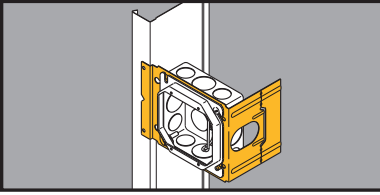


UPC/Part Number	Catalog Number	Description	Length A	Box Qty.
78101101138	<b>BB33</b>	Box Support	1 1/2"	100 pr.
78101104936	<b>BB33L</b>	Long Leg Box Support	2 1/2"	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



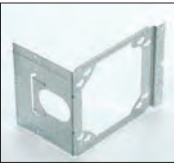
# Wall Studs



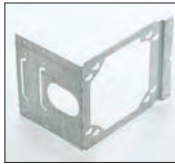
## Box Support Brackets



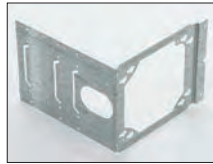
- Improved far-side support stands up during drywall installation and out performs competitor brackets.
- Supports 4" or 4<sup>11</sup>/<sub>16</sub>", square boxes.
- Brackets may be piggy-backed in series.
- Finish: Pre Galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.



BB4-23



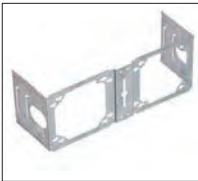
BB4-4



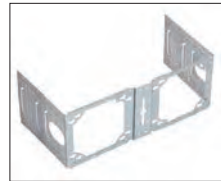
BB4-6



BB4-23D



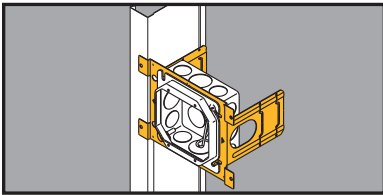
BB4-4D



BB4-6D

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118190	<b>BB4-23</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
78101118200	<b>BB4-4</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
78101118202	<b>BB4-6</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	100
79903848375	<b>BB4-23D</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
79903848376	<b>BB4-4D</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
79903848377	<b>BB4-6D</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



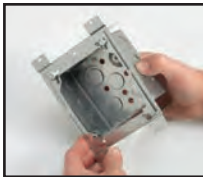
## Double-Sided Box Support Bracket w/ Marty-Mouse™ Ears



1. Bracket is shipped with ear tabs in the open position



2. Insert box screws into open slots



3. When plaster ring is installed, the ear tabs are bent down into the closed position



4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



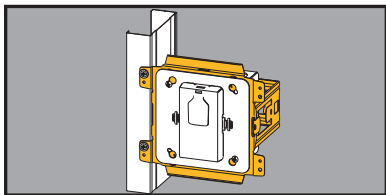
- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty Mouse™ ears feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out out performs competitor brackets.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-Galvanized

UPC/Part Number	Catalog Number	Stud Size	Box Qty.
78205138645	<b>BB73</b>	3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
78205138717	<b>BB74</b>	4", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	50
78205138759	<b>BB76</b>	6", 5 <sup>1</sup> / <sub>2</sub> ", 3 <sup>5</sup> / <sub>8</sub> ", 2 <sup>1</sup> / <sub>2</sub> "	25

Patent # 5595362

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Wall Studs

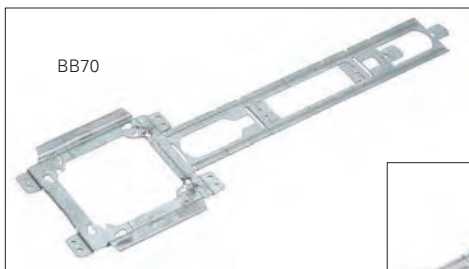


- Interlocking wrap-around design provides extra rigidity.
- Supports most standard 1-gang and 2-gang US and Canadian boxes and/or plaster rings 4" SQ., 4<sup>11/16</sup>" SQ., and 5" SQ. on either side of the stud.

## Box Support Brackets

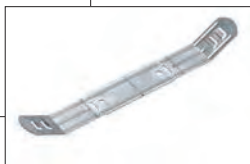
Available August 2014

- Adjustable for varying stud depths (2<sup>1/2</sup>" to 6").
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Integral mounting tabs for attaching plaster rings.
- Multiple brackets may be ganged together.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box, mud ring, and pre-wired devices.
- Finish: Pre Galvanized.
- Patent Pending



BB70

BB70E\*  
(Sold separately,  
must be used  
with BB70)



See following page for various product information.

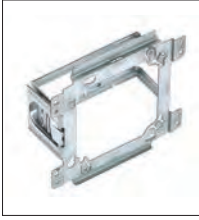
UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
79903856399	<b>BB70</b>	2 <sup>1/2</sup> " - 4"	50
79903856400	<b>BB70E*</b>	5 <sup>1/2</sup> " - 6"	50



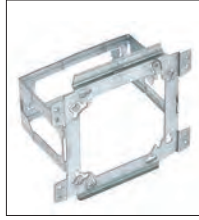
Can be used with BBCC (containment clip) and BBFS-18 (floor stand) See pages 33 & 34.

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

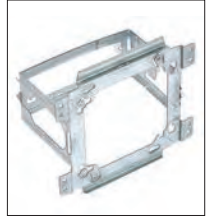
## Bent For Various Depths



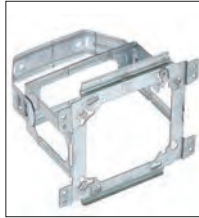
2 1/2"



3 5/8"



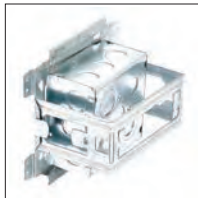
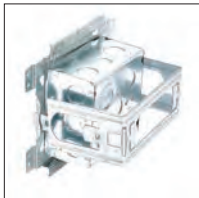
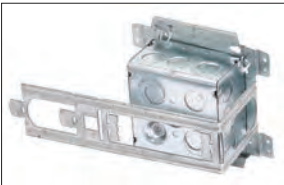
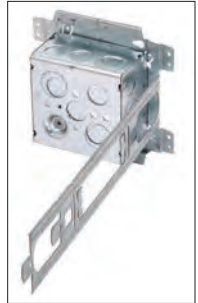
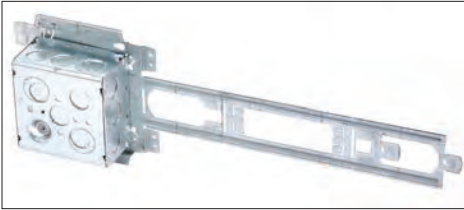
4"



6"

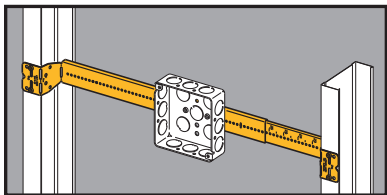
For 5 1/2" depth, snap the BB70E into the next notch on the bracket side

## Bending Bracket For 3 5/8" Depth



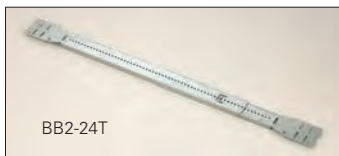
*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



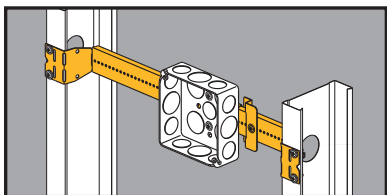
- Completely adjustable - fits a range of stud spacings and 1 1/2" or 2 1/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized

## Telescoping Box Mounting Bracket



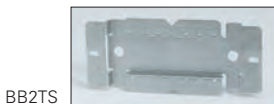
UPC/Part Number	Catalog Number	Metal Stud Spacing	Box Qty.
78101104256	<b>BB2-16T</b>	11" to 18"	50
78101101664	<b>BB2-24T</b>	15" to 26"	50

Licensed under Patent #5386959 • Patent #5209444



- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

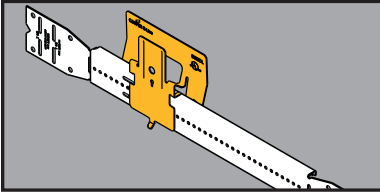
## Telescoping Slider Bracket



UPC/Part Number	Catalog Number	Stud Spacing	Box Qty.
78205138614	<b>BB216TS</b>	11" to 18"	20
78205138628	<b>BB224TS</b>	15" to 26"	20
78205138613	<b>BB2TS</b>	Slider Bracket Only	50

Patent # 7,472,875

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



## CROC-LOK™ Box Mounting Bracket



- Designed for pre-fab.
- Outlet boxes mount to the CROC-LOK with single screw.
- CROC-LOK box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables CROC-LOK assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN™ brochure for pre-fab box assemblies.

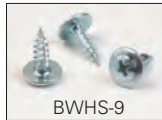
UPC/Part Number	Catalog Number	Description	Stud Spacing	Box Qty.
78205151291	<b>BB2CL</b>	CROC-LOK only	N/A	50
78205151292	<b>BB216TCL</b>	BB216T with CROC-LOK	11" - 16"	20
78205151293	<b>BB224TCL</b>	BB224T with CROC-LOK	15" - 24"	20

Note:

U.S. Patent # 8,403,277

Secures to B-Line BB2-16T and BB2-24T telescoping brackets only. For a standard 2<sup>1</sup>/<sub>8</sub>" deep box, the stud depth must be 3<sup>1</sup>/<sub>2</sub>" or greater. For a shallow 1<sup>1</sup>/<sub>2</sub>" deep box, the stud depth must be 2<sup>1</sup>/<sub>2</sub>" or greater.

## Mounting Screws

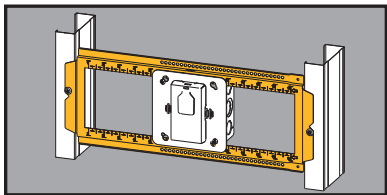


UPC/Part Number	Catalog Number	Description	Box Qty.
78101101675	<b>BWHS-9</b>	#8 x 9/16" Sheet Metal Screw	1000
78101104925	<b>BWHS-9D</b>	#8 x 9/16" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



## Open Box Mounting Bracket

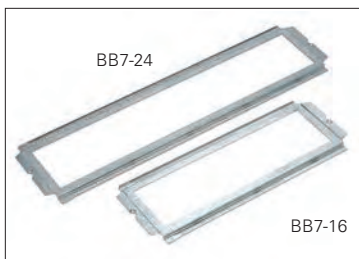
Available August 2014



- Open box support allows for adjustability of box position between studs.
- Supports most US and Canadian boxes and/or plaster rings 4" SQ., 4<sup>11</sup>/<sub>16</sub>" SQ., 5" SQ., and multi-gang boxes.

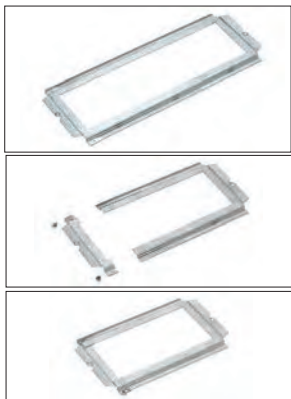
- Fits up to 1<sup>1</sup>/<sub>2</sub>" wide studs 16" to 24" on center.
- Compatible with Rapid Ring™ & adjustable plaster rings.
- Field cut to adjust to non-standard stud spacings.
- Stamped markings at 1/4", 1/2", and 1" increments to allow the installer to easily locate the desired box position.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs



UPC/Part Number	Catalog Number	Description	Box Qty.
78205145325	<b>BB7-16</b>	16" Stud Spacing	25
78205145328	<b>BB7-24</b>	24" Stud Spacing	25

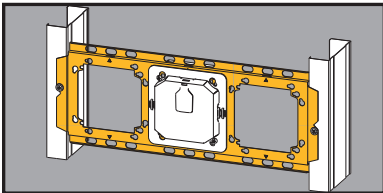
Can be cut on a mark to make shorter length brackets.



Can be used with BBFS-18 (floor stand)  
See pages 33 & 34.



Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

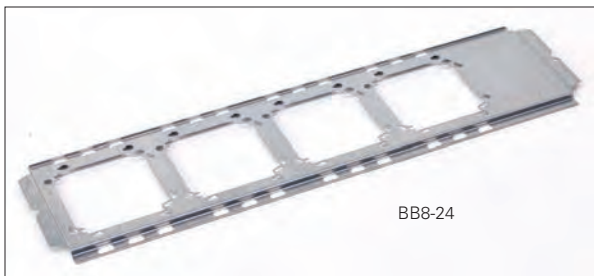
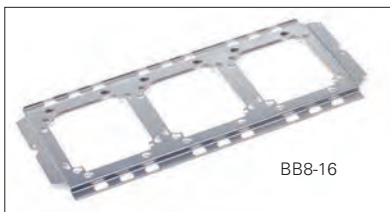


## Box Mounting Bracket



- Increased strength and rigidity help withstand the stress of drywall installation.
- Supports most US & Canadian boxes and plaster rings 4" SQ. and 4<sup>11</sup>/<sub>16</sub>" SQ.
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs

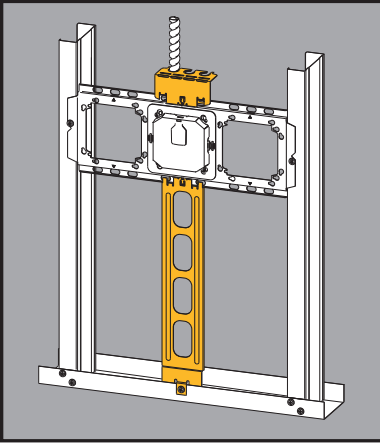


UPC/Part Number	Catalog Number	Description	Box Qty.
78101102898	<b>BB8-16</b>	16" Stud Spacing	25
78101102900	<b>BB8-24</b>	24" Stud Spacing	25

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

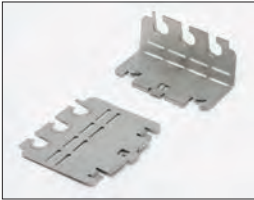


# Wall Studs

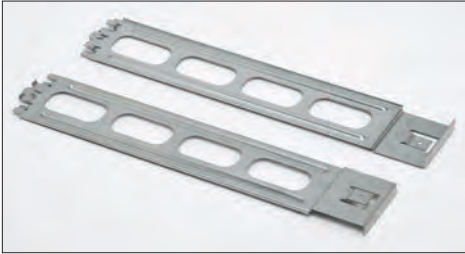


- Bracket accessories require no tools to install.
- BBCC cable containment clip provides first means of support for MC cable.
- BBFS-18 floor stand ensures consistent box height and eliminates need to measure for proper install height.
- Can be used with BB7 and BB8 brackets. See pages 27, 31, and 32.
- Pre-galvanized finish.

## Box Mounting Bracket Accessories



BBCC



BBFS-18

UPC/Part Number	Catalog Number	Description	Box Qty.
79903851597	<b>BBFS-18</b>	Floor Stand	25
79903851598	<b>BBCC</b>	.439" - .750" OD MC Cable	50

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

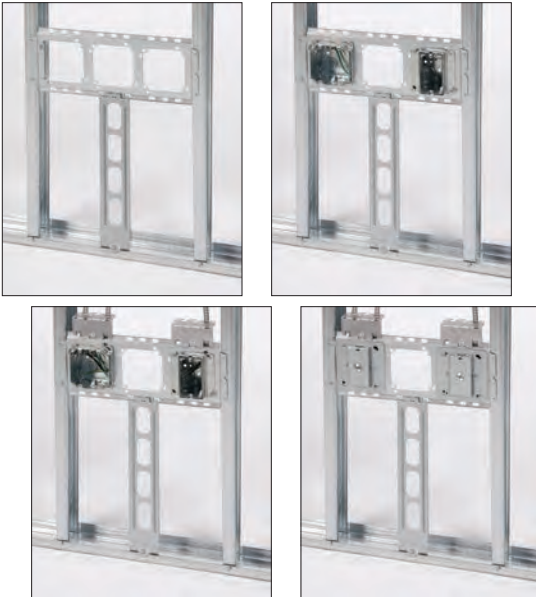
## Box Mounting Bracket Accessories con't.



BB8-16 Installed

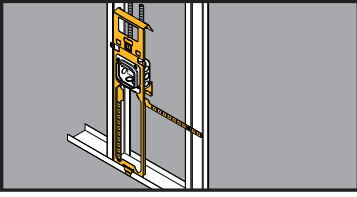


BBFS-18 & BBCC Installed (Can be used with BB7 or BB8 brackets)



*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



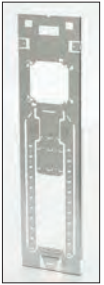
## Floor-Mount Box Support



BBF15



BBFC



BBF18



BBF24



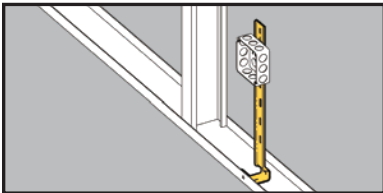
BBFxxC

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accommodates 6", 5 1/2", 3 5/8", and 2 1/2" stud depths.
- Fold-out tab built-in to attach floor stand to stud if desired.
- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- Patented Marty Mouse™ ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Box Center Height	Box Qty.
78205152944	<b>BBF15</b>	15" Floorstand	25
78205152945	<b>BBF18</b>	18" Floorstand	25
78205152946	<b>BBF24</b>	24" Floorstand	25
78205152947	<b>BBFC</b>	18" Floorstand	25
78205152948	<b>BBF15C</b>	15" Floorstand with Cable Clip	25
78205152949	<b>BBF18C</b>	18" Floorstand with Cable Clip	25
78205152950	<b>BBF24C</b>	24" Floorstand with Cable Clip	25

Patent #5595362  
Patent #7956285 B2

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

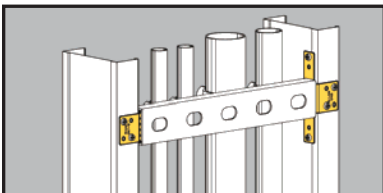


## Floor Mounted Box Support

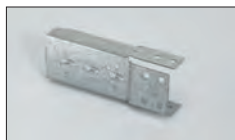


- See BBF Series for a better solution.
- Provides support for electrical box from floor track or concrete forms.
- 18" length with break-away feature for 12" or 16" box mounting.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101103623	<b>BB-18</b>	Floor Mounted Box Support	50



## Strut Mounting Brackets

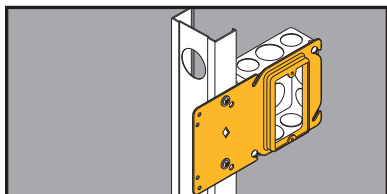


- Attaches 13/16" strut, 1 1/2" lathers channel, 1/2" EMT or 3/4" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101658	<b>BMB1</b>	Strut Mounting Bracket	25 pr.

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Wall Studs



- Uni-Mount provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

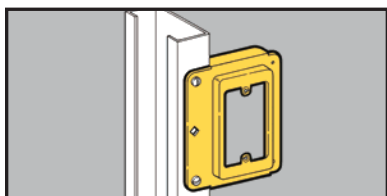
## Uni-Mount™ Box Support/Cover Plate Mounting Bracket

Single Gang  
BB40 Series



Double Gang  
BB45 Series

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	<b>BB40-08</b>	1/2" Raise	50
78205122771	<b>BB40-10</b>	5/8" Raise	50
78205122772	<b>BB40-12</b>	3/4" Raise	50
78205122773	<b>BB45-08</b>	1/2" Raise	50
78205122774	<b>BB45-10</b>	5/8" Raise	50
78205122775	<b>BB45-12</b>	3/4" Raise	50



## Cover Plate Mounting Bracket



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Can be piggy-backed.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	<b>BB15</b>	Single Gang Stud Bracket	50

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

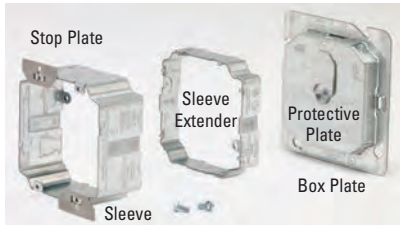
## Rapid Ring™ Self Adjusting Pre-Fab Ring

The Rapid Ring self-adjusting pre-fab plaster ring can help you win tight bids and beat the profit squeeze with its innovative 4-step installation. This revolutionary new pre-fab system installs in as little as 15 seconds per unit, compressing your project schedule, cutting operational costs and reducing onsite waste.

Because the Rapid Ring is a self-adjusting pre-fab ring, you'll never need to adjust a mud ring again. With a simple push of the Rapid Ring you're flush every time.



1. Remove protective plate.
2. Connect the wiring device.
3. Position the device assembly.
4. Push in the device assembly—and you're done!



For Use With Wiring Device Qty.	Electrical Box <sup>5</sup>	Box Plate <sup>1</sup> Cat. No.	Sleeve <sup>2,3</sup> Cat. No.	Sleeve Extender <sup>4</sup> Cat. No.
1	4" sq.	<b>B1RRP4C</b>	<b>B1RRR</b>	<b>B1RRE</b>
1	4 <sup>11</sup> / <sub>16</sub> " sq.	<b>B1RRP5C</b>	<b>B1RRR</b>	<b>B1RRE</b>
2	4" sq.	<b>B2RRP4C</b>	<b>B2RRR</b>	<b>B2RRE</b>
2	4 <sup>11</sup> / <sub>16</sub> " sq.	<b>B2RRP5C</b>	<b>B2RRR</b>	<b>B2RRE</b>
3	3-gang <sup>6</sup>	<b>B3RRPC</b>	<b>B3RRR</b>	<b>B3RRE</b>
4	4-gang <sup>7</sup>	<b>B4RRPC</b>	<b>B4RRR</b>	<b>B4RRE</b>

1. Protective plate included with box plate.
2. Wall thickness range: 1/2" min. to 1 1/4" max.
3. Stop plates included with sleeve.
4. Sleeve extender is an optional accessory to extend max. wall thickness range to 2" (order separately, mounting hardware included)
5. Minimum electrical box depth is 2 1/8"
6. Keyhole knockouts allow use on 2-gang electrical box.
7. Keyhole knockouts allow use on 3-gang electrical box.

Go to [www.cooperbline.com/rapidring](http://www.cooperbline.com/rapidring)

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs



- Supports horizontal runs of conduit, flexible conduit, MC or AC cable through metal studs.
- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.

## Conduit/Cable Supports

Wall Studs



BG-x-H7



BP-x-H7  
(Not UL)



BX4-H7



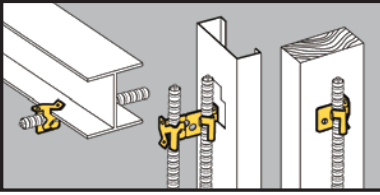
BX4M-H7  
(Not UL)



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101228	<b>BG-6-H7 *</b>	3/8", MC, AC, or FMC	100
78101110238	<b>BG-8-12-H7</b>	1/2" or 3/4"	100
Patent #4958792			
78101101227	<b>BP-8-H7</b>	1/2" EMT	100
78101101226	<b>BP-12-H7</b>	3/4" EMT 1/2" IMC, Rigid	100
78101101200	<b>BX4-H7</b>	MC, AC, or FMC	100
78101101205	<b>BX4M-H7</b>	MC, AC, or FMC	100

\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and  $5/16$  or  $3/8$  flexible conduit

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



## Flexible Conduit/ Cable Fasteners



BX4M



BX4MD



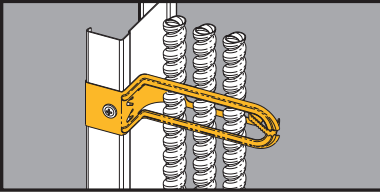
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to studs or flanges up to 3/16" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101079	<b>BX4</b>	Single Runs	100
78101101080	<b>BX4M</b>	Double Runs	100
78101101224	<b>BX4MD</b>	Up to 4 Runs	100

*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*



# Wall Studs



## Cable Support



- Metal cable support can be used in plenum-rated areas.
- Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

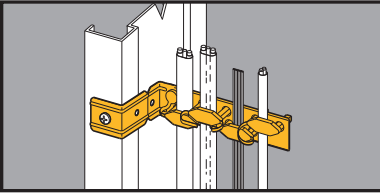
UPC/Part Number	Catalog Number	Description	Box Qty.
79903843761	<b>BRC6M</b>	Up to 3/4" FMC	100

Note: Canadian applications are limited to wood studs only.

Cable Size	Cable Type					
	Non-Metallic (NM)		Metal Clad (MC)		Armored Cable (AC)	
	Qty.	Dia.	Qty.	Dia.	Qty.	Dia.
14-2 w/ Grnd	8	.360	5	.439	5	.464
14-3 w/ Grnd	8	.307	5	.464	5	.483
14-4 w/ Grnd	8	.336	4	.494	4	.517
12-2 w/ Grnd	7	.410	5	.475	4	.498
12-3 w/ Grnd	8	.347	4	.505	4	.521
12-4 w/ Grnd	7	.381	4	.539	4	.557
10-2 w/ Grnd	6	.494	4	.542	4	.560
10-3 w/ Grnd	7	.422	4	.580	4	.588
10-4 w/ Grnd	NA	NA	3	.623	3	.632
8-2 w/ Grnd	4	.612	NA	NA	NA	NA
8-3 w/ Grnd	4	.565	NA	NA	NA	NA
6-2 w/ Grnd	4	.650	NA	NA	NA	NA
5/16 FMC			5 (.470 to .510 Dia.)			
3/8 FMC			4 (.560 to .610 Dia.)			
1/2 FMC			1 (.860 to .920 Dia.)			
3/4 FMC			1 (1.045 to 1.105 Dia.)			

The quantity of cables shown in the chart is the maximum. Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly). Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*



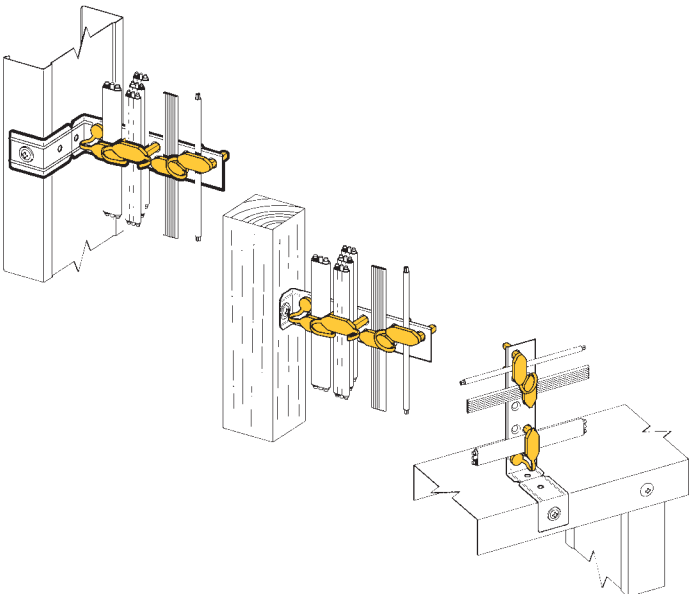
## Staple-Lok™ Multi-Purpose Cable Support



- Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

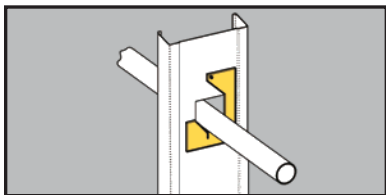
UPC/Part Number	Catalog Number	Cable Size	Box Qty.
78101103587	BRC4	Up to .500" O.D.	100

Patent #5587555



*Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.*

# Wall Studs

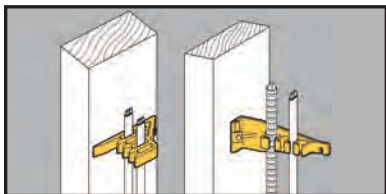


- Allows conduit, MC, AC, or FMC to be pulled through metal studs.
- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents rattling of conduit/cable.
- Finish: Pre-galvanized

## Conduit/Cable Supports



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101657	<b>BX82</b>	Up to 1"	100



- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1<sup>1</sup>/<sub>4</sub>" from face of stud as required by NEC Article 300.4(D).

## Cable Fasteners



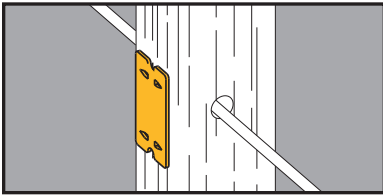
BRC1



BRC2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102941	<b>BRC1</b>	Wood Stud Cable Fastener	50
78101102941	<b>BRC2</b>	Furring Strip Cable Fastener	50

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

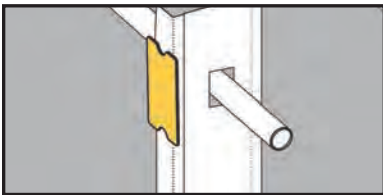


- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

## Nail Plates For Wood Studs



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104927	<b>BM3</b>	Nail Plate	100



- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.

## Nail Plates For Metal Studs

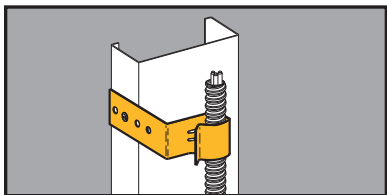


Just Peel Tape and Stick To Stud

UPC/Part Number	Catalog Number	Description	Box Qty.
78101126251	<b>BM3M</b>	Nail Plate	100

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Wall Studs



## Conduit Support



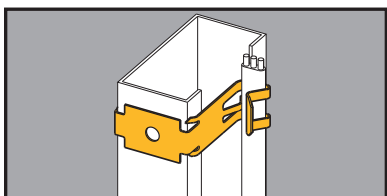
BB38



BB38D

- Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs.
- BB38 attaches MC/AC cable, 1/2" & 3/4" EMT to metal or wood studs.
- Eliminates the need for offset bending of conduit.
- Aligns conduit with standard box knockouts.

UPC/Part Number	Catalog Number	Box Depth	Box Qty.
78101104265	<b>BB38</b>	1 1/2"	100
78101195244	<b>BB38D</b>	2 1/8"	100



## Flexible Conduit/Cable Fasteners

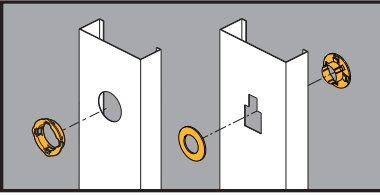


- Secures Romex<sup>®†</sup> sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119755	<b>BX5</b>	Secures Flexible Conduit or Cable to Metal or Wood Studs	100

†Romex<sup>®</sup> is a registered trademark used by Southwire<sup>®</sup> Company, Carrollton, Georgia.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



## Metal Stud Grommet



- BM1 snaps into standard 1<sup>11</sup>/<sub>32</sub>" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



BM1



BM2

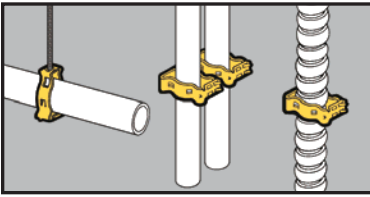
UPC/Part Number	Catalog Number	Description	Box Qty.
78101119100	<b>BM1</b>	Plastic Grommet	100
78101119102	<b>BM1M</b>	Plastic Grommet (Bulk Quantity)	100
78101104926	<b>BM2</b>	Universal Plastic Grommet	100

*Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.*

# Conduit & Cable

Conduit & Cable

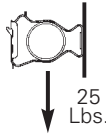




## Guide-Rite™ Conduit Fasteners



Clearance Hole  
For 1/4" Bolt



**Static  
Load  
Capacity**



100  
Lbs.

UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118350	<b>BG-6*</b>	3/8"	100
78101118355	<b>BG-8-12</b>	1/2", 3/4"	100
78101118360	<b>BG-16</b>	1"	100
78101118365	<b>BG-20</b>	1 1/4"	100
78101118360	<b>BG-24</b>	1 1/2"	100
78101118375	<b>BG-32</b>	2"	100



1/4"-20  
Thread Impression



UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118380	<b>BG-6-4T*</b>	3/8"	100
78101118385	<b>BG-8-12-4T</b>	1/2", 3/4"	100
78101118390	<b>BG-16-4T</b>	1"	100
78101118395	<b>BG-20-4T</b>	1 1/4"	100
78101118400	<b>BG-24-4T</b>	1 1/2"	100
78101118405	<b>BG-32-4T</b>	2"	100

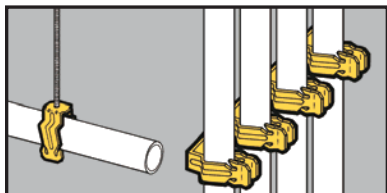
Patent #4958792

\* BG-6 and BG-6-4T will accept the following range  $\varnothing.420 - \varnothing.675$ :  
1/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Read safety/installation instruction sheets in packages before use.

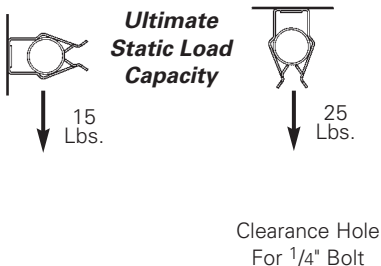


# Conduit & Cable



- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for 1/4" bolt or 1/4"-20 thread impression.
- **Ultimate Static Load Capacity:**  
25 Lbs. Vertical  
15 Lbs. Horizontal

## Push-Type Conduit Fasteners

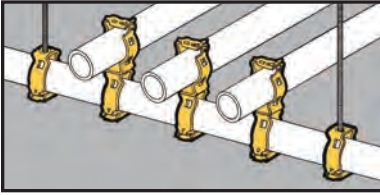


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119200	<b>BP-8</b>	1/2" EMT	100
78101119205	<b>BP-12</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119210	<b>BP-16</b>	1" EMT 3/4" IMC, Rigid	100

1/4"-20  
Thread Impression



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119215	<b>BP-8-4T</b>	1/2" EMT	100
78101119220	<b>BP-12-4T</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119225	<b>BP-16-4T</b>	1" EMT 3/4" IMC, Rigid	100



## Guide-Rite™ Conduit Trapeze Fasteners



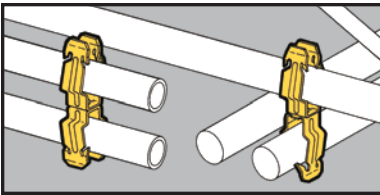
- For use with  $\frac{3}{8}$ " to 2" conduit.
- Guide-Rite Fastener provides for fast and easy installation with pliers.



- Note: Total load of trapeze must not exceed 100 Lbs.

UPC/Part Number	Catalog Number	Conduit To 1" Trapeze	Box Qty.
78101118615	<b>BG-16-G-6*</b>	$\frac{3}{8}$ "	100
78101118620	<b>BG-16-G-8-12</b>	$\frac{1}{2}$ ", $\frac{3}{4}$ "	100
78101118595	<b>BG-16-G-16</b>	1"	100
78101118600	<b>BG-16-G-20</b>	$1\frac{1}{4}$ "	50
78101118605	<b>BG-16-G-24</b>	$1\frac{1}{2}$ "	50
78101118610	<b>BG-16-G-32</b>	2"	50

\* BG-16-G-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and  $\frac{5}{16}$  or  $\frac{3}{8}$  flexible conduit



## Push-Type Conduit To Conduit Fasteners

- An ideal spacer between conduits.
- No installation tools required.



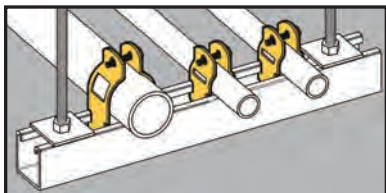
- **Ultimate Static Load Capacity:** 25 Lbs.

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118615	<b>BP-8-P-8</b>	$\frac{1}{2}$ " to $\frac{1}{2}$ "	100
78101118620	<b>BP-8-P-12</b>	$\frac{1}{2}$ " to $\frac{3}{4}$ "	100
78101118595	<b>BP-8-P-16</b>	$\frac{1}{2}$ " to 1"	100
78101118600	<b>BP-12-P-12</b>	$\frac{3}{4}$ " to $\frac{3}{4}$ "	100
78101118605	<b>BP-12-P-16</b>	$\frac{3}{4}$ " to 1"	100
78101118610	<b>BP-16-P-16</b>	1" to 1"	100

Note: For rigid conduit with BP series, use next size larger fastener ( $\frac{1}{2}$ " Rigid use BP-12).

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable

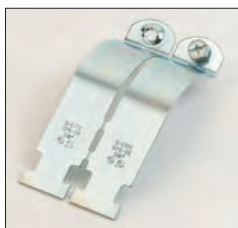


## Break-Apart Conduit Clamps

- Patented Multi-Grip design fits Rigid, IMC or EMT conduit.
- Convenient break-apart clamp features retained bolt and  $\frac{5}{16}$ " thread impression to eliminate handling of nuts and bolts.
- Finish: Pre-galvanized.
- Static Load Capacity: 200 lbs.



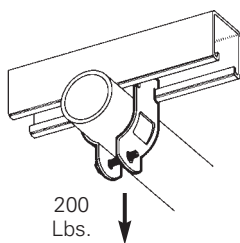
BPC-8 thru BPC-32



BPC-40 thru BPC-64



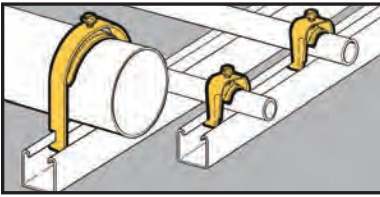
### Static Load Capacity



200  
Lbs.

UPC/Part Number	Catalog Number	Rigid or EMT Conduit Size	Box Qty.
78101101676	<b>BPC-8</b>	1/2"	100
78101101677	<b>BPC-12</b>	3/4"	100
78101101680	<b>BPC-16</b>	1"	100
78101101679	<b>BPC-20</b>	1 1/4"	50
78101101678	<b>BPC-24</b>	1 1/2"	50
78101101681	<b>BPC-32</b>	2"	50
78101103977	<b>BPC-40</b>	2 1/2"	50
78101103978	<b>BPC-48</b>	3"	50
78101103979	<b>BPC-56</b>	3 1/2"	25
78101103981	<b>BPC-64</b>	4"	25

Patent #4044428



## Conduit Strut Clamps



B1532S thru B1564S

B1506S  
thru  
B1524S



B1508  
thru  
B1520



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- Finish: Pre-galvanized

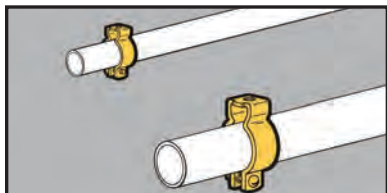
UPC/Part Number	Catalog Number	Conduit Size		OD Range Inches		Static Load Cap. Lbs.	Box Qty.
		EMT	Rigid	Min	Max		
78101163150	<b>B1508</b>	1/2"	–	–	–	200	100
78101163154	<b>B1512</b>	3/4"	1/2"	–	–	200	100
78101163157	<b>B1516</b>	1"	3/4"	–	–	300	100
78101163160	<b>B1520</b>	1 1/4"	1"	–	–	300	100
Note: Clamps without saddle are not recommended for flexible conduit or cable							
78205144495	<b>B1506S*</b>	3/8"*	–	.400	.630	200	100
78101163164	<b>B1508S</b>	1/2"	–	.250	.680	200	100
78101163168	<b>B1512S</b>	3/4"	1/2"	.500	.840	200	100
78101163171	<b>B1516S</b>	1"	3/4"	.750	1.050	300	100
78101163177	<b>B1520S</b>	1 1/4"	1"	1.125	1.315	300	100
78101163182	<b>B1524S</b>	1 1/2"	1 1/4"	1.375	1.660	400	50
78101163188	<b>B1532S</b>	2"	1 1/2"	1.875	2.200	400	50
78101163193	<b>B1534S</b>	–	2"	2.125	2.375	400	25
78101163199	<b>B1540S</b>	2 1/2"	2 1/2"	2.625	2.875	400	25
78101163205	<b>B1548S</b>	3"	3"	3.250	3.500	400	25
78101163211	<b>B1556S</b>	3 1/2"	3 1/2"	3.750	4.000	400	10
78101163215	<b>B1564S</b>	4"	4"	4.250	4.500	400	10

Patent #5022614

- \* B1506S will accept the following  
 AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4  
 MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Finish: Zinc-Plated

## Conduit Hangers



With Retained Bolt  
And  
Thread Impression



UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119800	<b>BL1400*</b>	0	1/2"	1/2"	100
78101119801	<b>BL1410*</b>	1	3/4"	3/4"	100
78101119802	<b>BL1420*</b>	2	1"	1"	100

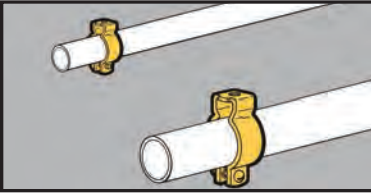


With Bolt And Nut



UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119803	<b>BL1425*</b>	2.5	1 1/4"	--	100
78101119804	<b>BL1430*</b>	3	1 1/2"	1 1/4"	100
78101119805	<b>BL1440†</b>	4	--	1 1/2"	50
78101119806	<b>BL1450†</b>	5	2"	2"	50
78101119807	<b>BL1460†</b>	6	2 1/2"	2 1/2"	25
78101119808	<b>BL1470†</b>	7	3"	3"	25
78101119809	<b>BL1480†</b>	8	3 1/2"	3 1/2"	10
78101119810	<b>BL1490†</b>	9	4"	4"	10

\* 9/32" mounting hole. † 11/32" mounting hole.



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel

## Stainless Steel Conduit Hangers



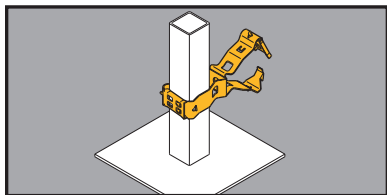
With Bolt And Nut

UPC/Part Number	Catalog Number	Trade Size	Conduit Size		Box Qty.
			EMT	Rigid	
78101119800	<b>BL1400-SS4*</b>	0	1/2"	1/2"	100
78101119801	<b>BL1410-SS4*</b>	1	3/4"	3/4"	100
78101119802	<b>BL1420-SS4*</b>	2	1"	1"	100
78101119803	<b>BL1425-SS4*</b>	2.5	1 1/4"	–	100
78101119804	<b>BL1430-SS4*</b>	3	1 1/2"	1 1/4"	100
78101119805	<b>BL1440-SS4†</b>	4	–	1 1/2"	50
78101119806	<b>BL1450-SS4†</b>	5	2"	2"	50
78101119807	<b>BL1460-SS4†</b>	6	2 1/2"	2 1/2"	25
78101119808	<b>BL1470-SS4†</b>	7	3"	3"	25
78101119809	<b>BL1480-SS4†</b>	8	3 1/2"	3 1/2"	10
78101119810	<b>BL1490-SS4†</b>	9	4"	4"	10

\* 9/32" mounting hole. † 1 1/32" mounting hole.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



## Guide-Rite™ Conduit To Pedestal Support

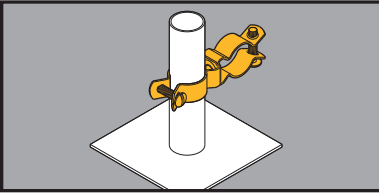
- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.



UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78205125589	<b>BG-8-12-G6*</b>	3/8"	100
78101188538	<b>BG-8-12-G812</b>	1/2" or 3/4"	100
78101118620	<b>BG-16-G-8-12</b>	1"	100
78205125594	<b>BG-8-12-G20</b>	1 1/4"	50
78205125595	<b>BG-8-12-G24</b>	1 1/2"	50
78205125597	<b>BG-8-12-G32</b>	2"	50

Patent #4958792

- \* BG-8-12-G6 will accept the following range  $\varnothing$ .420 -  $\varnothing$ .675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



## Conduit To Pedestal Support

- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- Finish: Zinc-Plated

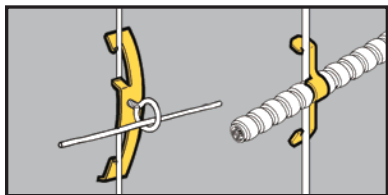


UPC/Part Number	Catalog Number	Trade Size	Conduit Rigid	Conduit Size EMT	Box Qty.
78205125599	<b>BL1410-L1400</b>	0	1/2"	1/2"	50
78205125601	<b>BL1410-L1410</b>	1	3/4"	3/4"	50
78205125602	<b>BL1410-L1420</b>	2	1"	1"	50
78205125603	<b>BL1410-L1425</b>	2.5	–	1 1/4"	50
78205125607	<b>BL1410-L1430</b>	3	1 1/4"	1 1/2"	50
78205125612	<b>BL1410-L1440</b>	4	1 1/2"	–	25
78205125614	<b>BL1410-L1450</b>	5	2"	2"	25
78205125617	<b>BL1410-L1460</b>	6	2 1/2"	2 1/2"	10
78205125618	<b>BL1410-L1470</b>	7	3"	3"	10
78205125619	<b>BL1410-L1480</b>	8	3 1/2"	3 1/2"	5

Read safety/installation instruction sheets in packages before use.



# Conduit & Cable

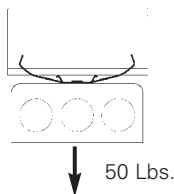


- BW2 and BW6 support #10-24 or 1/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.

## Rod & Wire Fasteners



UPC/Part Number	Catalog Number	Drop Rod/ Wire Size	Flange Thickness	Box Qty.
78101119700	<b>BW2</b>	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78205140156	<b>BW2S</b>	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78101195516	<b>BW6</b>	3/8" plain or threaded rod	3/8" - 7/16"	100
78205140157	<b>BW6S</b>	3/8" plain or threaded rod	3/8" - 7/16"	100



**Static Load Capacity**



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119705	<b>BW4</b>	Multi-size Wire Fastener	100

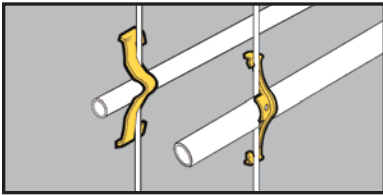


MC/AC Cable Size	#12 Wire	#10 Wire	#8 & #9 Wire
14/2 Cable	BW4	BW4	BW4
14/3 Cable	BW4	BW4	BW4
12/2 Cable	BW4	BW4	BW4
12/3 Cable	BW4	BW-8	BW-8

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

# Conduit & Cable



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.

## Rod & Wire Fasteners



BW-8



BW-16

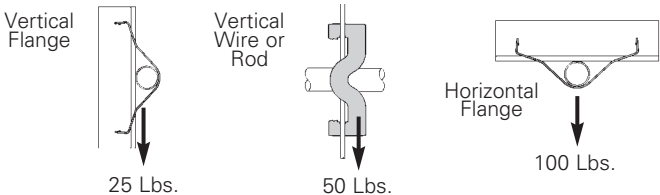


UPC/Part Number	Catalog Number	Box Qty.
78101119710	<b>BW-8</b>	100
78101119715	<b>BW-12</b>	100
78101119720	<b>BW-16</b>	100
78101119725	<b>BW-20</b>	100

Conduit Size	#10 & #12 Wire	#8 & #9 Wire	3/16" & 1/4" Rod	1/8" to 1/4" Flange	5/16" to 3/8" Flange	7/16" to 1/2" Flange
1/2" EMT	BW-8	BW-8	BW-8	BW-8	BW-12	BW-12
1/2" Rigid	BW-8	BW-12	BW-12	BW-12	BW-12	BW-16
3/4" EMT	BW-12	BW-12	BW-12	BW-12	BW-16	BW-16
3/4" Rigid	BW-12	BW-12	BW-16	BW-16	BW-20*	BW-20*
1" EMT	—	BW-16	BW-16	BW-16	BW-20*	BW-20*
1" Rigid	—	—	—	BW-20*	BW-20*	BW-20*
1 1/4" EMT	—	BW-20	BW-20	BW-20	—	—

\*Note: For horizontal applications only.

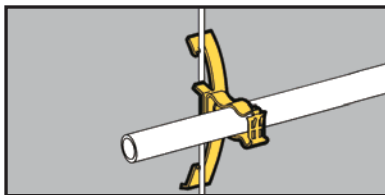
### Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



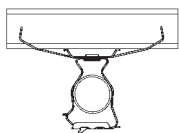
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

## Guide-Rite™ Conduit To Rod Fasteners



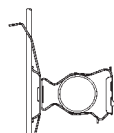
UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118540	<b>BG-8-12-W2</b>	1/2", 3/4"	100
78101118640	<b>BG-16-W2</b>	1"	100
78101195519	<b>BG-8-12-W6</b>	1/2", 3/4"	100
78101195520	<b>BG-16-W6</b>	1"	100

Patent #4958792



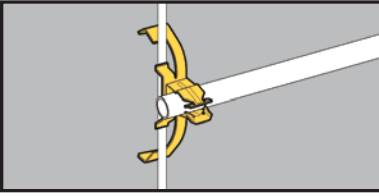
50 Lbs.

**Static Load  
Capacity**



25 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

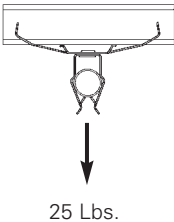


## Push-Type Conduit To Rod Fasteners

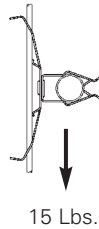
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119325	<b>BP-8-W2</b>	1/2" EMT	100
78101119420	<b>BP-12-W2</b>	3/4" EMT or 1/2" IMC. Rigid	100
78101119505	<b>BP-16-W2</b>	1" EMT or 3/4" IMC, Rigid	100
78101195521	<b>BP-8-W6</b>	1/2" EMT	100
78101195522	<b>BP-12-W6</b>	3/4" EMT or 1/2" IMC. Rigid	100
78101195523	<b>BP-16-W6</b>	1" EMT or 3/4" IMC, Rigid	100

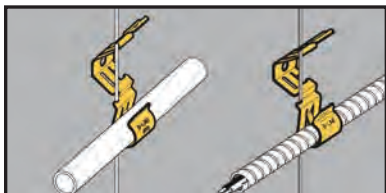


**Ultimate Static Load Capacity**



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

# Conduit & Cable

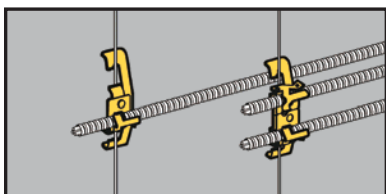


## Flex-Rite™ Cable/Conduit To Wire Fasteners



- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 - #8 wire and 1/4" plain rod.
- Accommodates MC, AC, 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity:  
BX-8 - 20 Lbs.  
BX-18 - 30 Lbs.

UPC/Part Number	Catalog Number	Cable/Conduit Size	Box Qty.
78101101402	<b>BX-8</b>	.375" to 706" O.D.	100
78101102943	<b>BX-18</b>	.706" to 1.380" O.D.	100
78101101685	<b>BX-8B</b>	Bulk Packed In Fiber Barrels	4000



## Cable To Rod Fasteners



BX4-W2

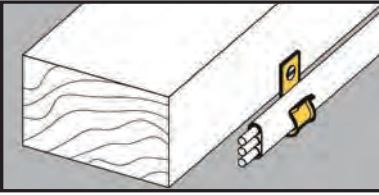


- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

BX4M-W2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101219	<b>BX4-W2</b>	Single Runs	100
78101101189	<b>BX4M-W2</b>	Double Runs	100
78101195517	<b>BX4-W6</b>	Single Runs	100
78101195518	<b>BX4M-W6</b>	Double Runs	100

Read safety/installation instruction sheets in packages before use.

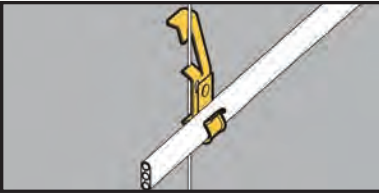


- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.

## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103553	<b>BRC3</b>	Type NM Cable Fastener	100



- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru 1/4" plain or threaded rod.
- W6 series supports cable from 3/8" plain or threaded rod.

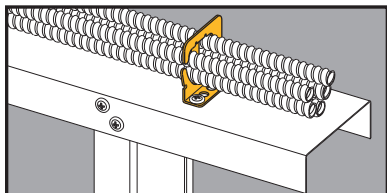
## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103547	<b>BRC3-W2</b>	Type NM Cable To Wire Fastener	100
78101195524	<b>BRC3-W6</b>	Type NM Cable To Wire Fastener	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Conduit & Cable



## Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC5-1



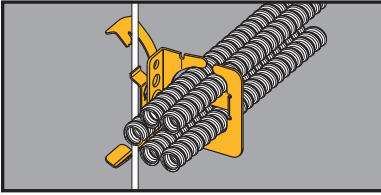
BRC5-2



BRC5-3



UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205143593	<b>BRC5-1</b>	.430" to .560" Up To 4 Runs	50
78205143594	<b>BRC5-2</b>	.430" to .560" Up To 9 Runs	50
78205143595	<b>BRC5-3</b>	.560" to .690" Up To 7 Runs	50



## Multi-Run Cable Carrier for MC/AC Cable



- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to 1/8" thru 3/8" flanges or #12 thru 1/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



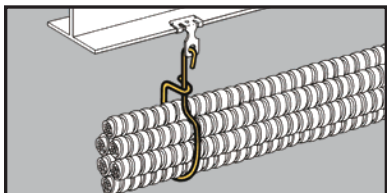
UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205144075	<b>BRC51-W2</b>	.430" to .560" Up To 4 Runs	25
78205144076	<b>BRC52-W2</b>	.430" to .560" Up To 9 Runs	25
78205144077	<b>BRC53-W2</b>	.560" to .690" Up To 7 Runs	25
78205144078	<b>BRC51-W6</b>	.430" to .560" Up To 4 Runs	25
78205144079	<b>BRC52-W6</b>	.430" to .560" Up To 9 Runs	25
78205144080	<b>BRC53-W6</b>	.560" to .690" Up To 7 Runs	25

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

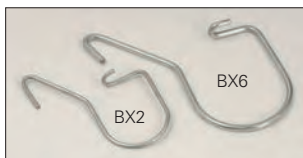


# Conduit & Cable



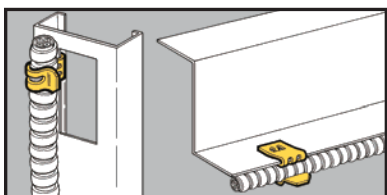
- Designed to support multiple runs of MC, AC, FMC or communication cable.
- Static Load Capacity:  
BX2 - 50 lbs.  
BX6 & BX24 - 75 Lbs.
- Finish: Zinc Plated

## Flexible Cable Support



UPC/Part Number	Catalog Number	Description	Box Qty.
78205104934	<b>BX2</b>	Usable Area = 2 sq. in.	100
78205119765	<b>BX6</b>	Usable Area = 4 sq. in.	100
78205119766	<b>BX24</b>	Usable Area = 13 sq. in.	100

Conduit & Cable

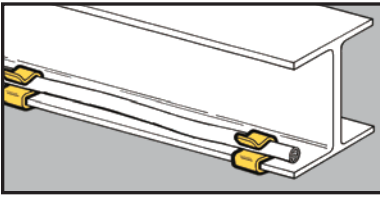


- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness  $5/32"$ .

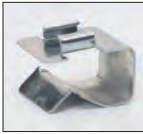
## Flexible Conduit/Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119770	<b>BX9</b>	Flexible Conduit Fastener	100



## Flexible Conduit/ Cable Fasteners



BFA Series  
(For Use with  
BXS Series  
Only)



BXS  
Series



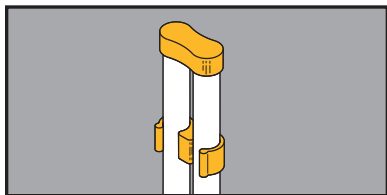
BXL  
Series

- Secures cable along flanges 1/16" to 3/4" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX\_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX\_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX\_-1214 accepts 10/3, romex with ground.
- Finish: Zinc Plated

UPC/Part Number	Catalog Number	Flange Thickness	Cable Diameter	Box Qty.
78101119973	<b>BXS-67</b>	1/16" - 5/32"	.218 to .281	100
78101119974	<b>BXS-89</b>	1/16" - 5/32"	.290 to .375	100
78101119975	<b>BXS-1011</b>	1/16" - 5/32"	.375 to .437	100
78101119976	<b>BXS-1214</b>	1/16" - 5/32"	.444 to .560	100
78101119977	<b>BXS-1519</b>	1/16" - 5/32"	.500 to .718	100
78101119978	<b>BXS-2024</b>	1/16" - 5/32"	.748 to .945	100
78101119979	<b>BXS-2530</b>	1/16" - 5/32"	.968 to 1.250	100
78101119980	<b>BXM-67</b>	5/32" - 9/32"	.218 to .281	100
78101119981	<b>BXM-89</b>	5/32" - 9/32"	.290 to .375	100
78101119982	<b>BXM-1011</b>	5/32" - 9/32"	.375 to .437	100
78101119983	<b>BXM-1214</b>	5/32" - 9/32"	.444 to .560	100
78101119984	<b>BXM-1519</b>	5/32" - 9/32"	.500 to .718	100
78101119985	<b>BXM-2024</b>	5/32" - 9/32"	.748 to .945	100
78101119986	<b>BXM-2530</b>	5/32" - 9/32"	.968 to 1.250	100
78101119987	<b>BXL-67</b>	5/16" - 1/2"	.218 to .281	100
78101119988	<b>BXL-89</b>	5/16" - 1/2"	.290 to .375	100
78101119989	<b>BXL-1011</b>	5/16" - 1/2"	.375 to .437	100
78101119990	<b>BXL-1214</b>	5/16" - 1/2"	.444 to .560	100
78101119991	<b>BXL-1519</b>	5/16" - 1/2"	.500 to .718	100
78101119992	<b>BXL-2024</b>	5/16" - 1/2"	.748 to .945	100
78101119993	<b>BXL-2530</b>	5/16" - 1/2"	.968 to 1.250	100
78101119955	<b>BFA-1215</b>	1/2" - 5/8"	-	100
78101119956	<b>BFA-1520</b>	5/8" - 3/4"	-	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Conduit & Cable



## Conduit Quick Caps & Spacers



BCS & BES  
8 & 8C thru 16 & 16C



BCS 18, 18C, 20, & 20C



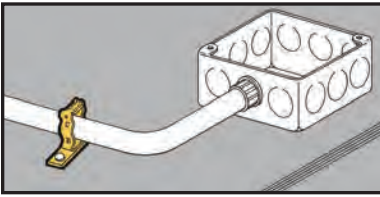
BCS 12AS & 16AS

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- Available in EMT & Rigid conduit sizes.

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>Conduit Spacer</b>			
78205122356	<b>BCS-8</b>	1/2" Rigid Conduit	50
78205140057	<b>BES-8</b>	1/2" EMT Conduit	50
78205122357	<b>BCS-12</b>	3/4" Rigid Conduit	50
78205140058	<b>BES-12</b>	3/4" EMT Conduit	50
78205122358	<b>BCS-16</b>	1" Rigid Conduit	50
78205140059	<b>BES-16</b>	1" EMT Conduit	50
79903855806	<b>BCS-18</b>	1 1/2" Rigid Conduit	25
79903855807	<b>BCS-20</b>	2" Rigid Conduit	25
<b>Conduit Cap</b>			
78205122359	<b>BCS-8C</b>	1/2" Rigid Conduit	50
78205140060	<b>BES-8C</b>	1/2" EMT Conduit	50
78205122361	<b>BCS-12C</b>	3/4" Rigid Conduit	50
78205140061	<b>BES-12C</b>	3/4" EMT Conduit	50
78205122362	<b>BCS-16C</b>	1" Rigid Conduit	50
78205140062	<b>BES-16C</b>	1" EMT Conduit	50
79903855803	<b>BCS-18C</b>	1 1/2" Rigid Conduit	25
79903855805	<b>BCS-20C</b>	2" Rigid Conduit	25
<b>Conduit Spacer</b>			
79903855808	<b>BCS-12AS</b>	3/4" Rigid Conduit	50
79903855809	<b>BCS-16AS</b>	1" Rigid Conduit	25

Patent #5896892

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



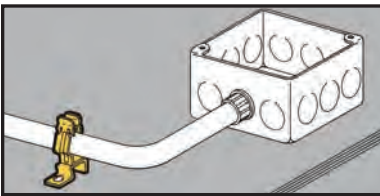
- Eliminates the need for offset bends when used with 1 1/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.

## Conduit Spacer Brackets



BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118495 Patent # 4958792	<b>BG-8-12-D3</b>	1/2" or 3/4"	100
78101119265	<b>BP-8-D3</b>	1/2" EMT	100
78101118365	<b>BP-12-D3</b>	3/4" EMT or 1/2" IMC, Rigid	100



- Eliminates the need for offset bends when used with 2 1/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.

## Conduit Spacer Brackets

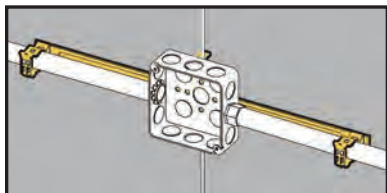


BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118500 Patent # 4958792	<b>BG-8-12-D4</b>	1/2" or 3/4"	100
78101119270	<b>BP-8-D4</b>	1/2" EMT	100
78101119370	<b>BP-12-D4</b>	3/4" EMT or 1/2" IMC, Rigid	100
78101119460	<b>BP-16-D4</b>	1" EMT or 3/4" IMC, Rigid	100

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable

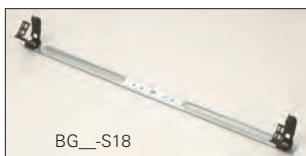


## Guide-Rite™ Conduit & Box Support Fasteners



- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.

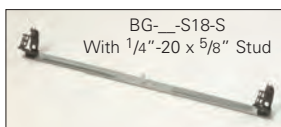


UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101103575	<b>BG6-S18 *</b>	3/8"	25
78101103573	<b>BG812-S18</b>	1/2" or 3/4"	25
78101103574	<b>BG16-S18</b>	1"	25

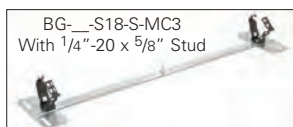
### With Multiple Conduit Plate

78205152812	<b>BG6-S18-MC3 *</b>	3/8"	25
78205152900	<b>BG812-S18-MC3</b>	1/2" or 3/4"	25
78205152901	<b>BG16-S18-MC3</b>	1"	25

Patent # 4958792



BG\_\_S18-S  
With 1/4"-20 x 5/8" Stud



BG\_\_S18-S-MC3  
With 1/4"-20 x 5/8" Stud

### With Stud

78205152902	<b>BG6-S18S *</b>	3/8"	25
78110104979	<b>BG812-S18S</b>	1/2" or 3/4"	25
78205152903	<b>BG16-S18S</b>	1"	25

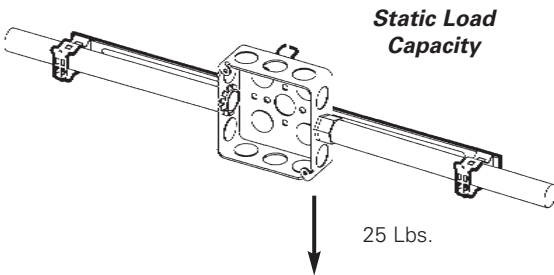
### With Stud & Multiple Conduit Plate

78205152904	<b>BG6-S18S-MC3 *</b>	3/8"	25
78205152905	<b>BG812-S18S-MC3</b>	1/2" or 3/4"	25
78205152906	<b>BG16-S18S-MC3</b>	1"	25

# Conduit & Cable



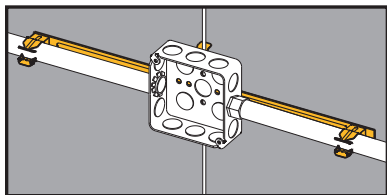
UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78101103578	<b>BG6-S18-W2 *</b>	3/8"	25
78101103577	<b>BG812-S18-W2</b>	1/2" or 3/4"	25
78101103577	<b>BG16-S18-W2</b>	1"	25
<b>W2 Series for #12 thru 1/4" Rod &amp; Multiple Conduit Plate **</b>			
78205152855	<b>BG6-S18-W2-MC3 *</b>	3/8"	25
78205152739	<b>BG812-S18-W2-MC3</b>	1/2" or 3/4"	25
78205152862	<b>BG16-S18-W2-MC3</b>	1"	25
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78110199581	<b>BG6-S18-W6 *</b>	3/8"	25
78110199582	<b>BG812-S18-W6</b>	1/2" or 3/4"	25
78110199580	<b>BG16-S18-W6</b>	1"	25
<b>W6 Series for 3/8" Plain or Threaded Rod &amp; Multiple Conduit Plate **</b>			
78205152856	<b>BG6-S18-W6-MC3 *</b>	3/8"	25
78205152860	<b>BG812-S18-W6-MC3</b>	1/2" or 3/4"	25
78205152864	<b>BG16-S18-W6-MC3</b>	1"	25



- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit
- \*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

# Conduit & Cable



## Push-Type Conduit & Box Support Fasteners

- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.



BP\_\_S18

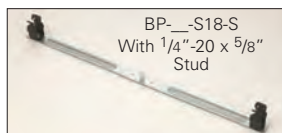


BP\_\_S18-MC3

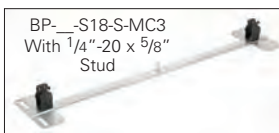
UPC/Part Number	Catalog Number	Conduit Size (EMT) R(Rigid)	Box Qty.
78205123604	<b>BP8-S18</b>	1/2" E	25
78205123605	<b>BP12-S18</b>	3/4" E or 1/2" R	25
78205123606	<b>BP16-S18</b>	1"E, 3/4" R	25

### With Multiple Conduit Plate

78205152907	<b>BP8-S18-MC3</b>	1/2" E	25
78205152908	<b>BP12-S18-MC3</b>	3/4" E or 1/2" R	25
78205152909	<b>BP16-S18-MC3</b>	1"E, 3/4" R	25



BP\_\_S18-S  
With 1/4"-20 x 5/8"  
Stud



BP\_\_S18-S-MC3  
With 1/4"-20 x 5/8"  
Stud

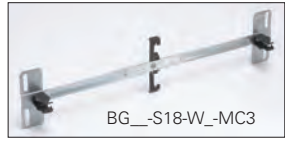
### With Stud

78205123631	<b>BP8-S18S</b>	1/2" E	25
78205123633	<b>BP12-S18S</b>	3/4" E or 1/2" R	25
78205123634	<b>BP16-S18S</b>	1"E, 3/4" R	25

### With Stud & Multiple Conduit Plate

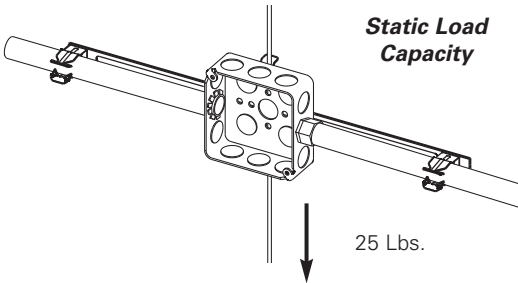
78205152913	<b>BP8-S18S-MC3</b>	1/2" E	25
78205152914	<b>BP12-S18S-MC3</b>	3/4" E or 1/2" R	25
78205152915	<b>BP16-S18S-MC3</b>	1"E, 3/4" R	25

# Conduit & Cable



UPC/Part Number	Catalog Number	Conduit Size E(EMT) R(Rigid)	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78205123615	<b>BP8-S18-W2</b>	1/2" EMT	25
78205123619	<b>BP12-S18-W2</b>	3/4" E or 1/2" R	25
78205123627	<b>BP16-S18-W2</b>	1"E, 3/4" R	25
<b>W2 Series for #12 thru 1/4" Rod &amp; Multiple Conduit Plate **</b>			
78205152847	<b>BP8-S18-W2-MC3</b>	1/2" EMT	25
78205152848	<b>BP12-S18-W2-MC3</b>	3/4" E or 1/2" R	25
78205152849	<b>BP16-S18-W2-MC3</b>	1"E, 3/4" R	25
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78205123628	<b>BP8-S18-W6</b>	1/2" EMT	25
78205123629	<b>BP12-S18-W6</b>	3/4" E or 1/2" R	25
78205123630	<b>BP16-S18-W6</b>	1"E, 3/4" R	25
<b>W6 Series for 3/8" Plain or Threaded Rod &amp; Multiple Conduit Plate **</b>			
78205152850	<b>BP8-S18-W6-MC3</b>	1/2" EMT	25
78205152851	<b>BP12-S18-W6-MC3</b>	3/4" E or 1/2" R	25
78205152854	<b>BP16-S18-W6-MC3</b>	1"E, 3/4" R	25

Conduit & Cable

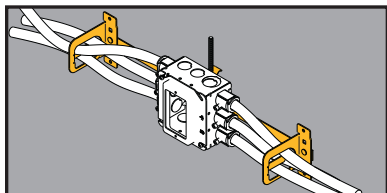


\*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.



# Conduit & Cable



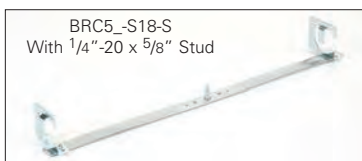
- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retention tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.

## Multi-Run Cable Carrier & Box Support Fasteners



BRC5\_S18

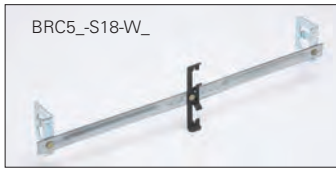
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78205152916	<b>BRC51-S18</b>	Up to 4 runs .430" - .560"	25
78205152918	<b>BRC53-S18</b>	Up to 7 runs .560" - .690"	25



BRC5\_S18-S  
With 1/4"-20 x 5/8" Stud

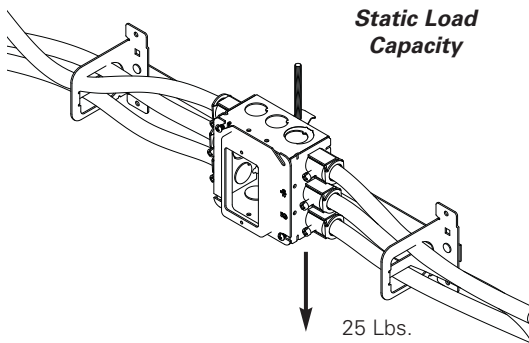
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>With Stud</b>			
78205152919	<b>BRC51-S18S</b>	Up to 4 runs .430" - .560"	25
78205152921	<b>BRC53-S18S</b>	Up to 7 runs .560" - .690"	25

# Conduit & Cable



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>W2 Series for #12 thru 1/4" Rod **</b>			
78205152865	<b>BRC51-S18-W2</b>	Up to 4 runs .430" - .560"	25
78205152869	<b>BRC53-S18-W2</b>	Up to 7 runs .560" - .690"	25

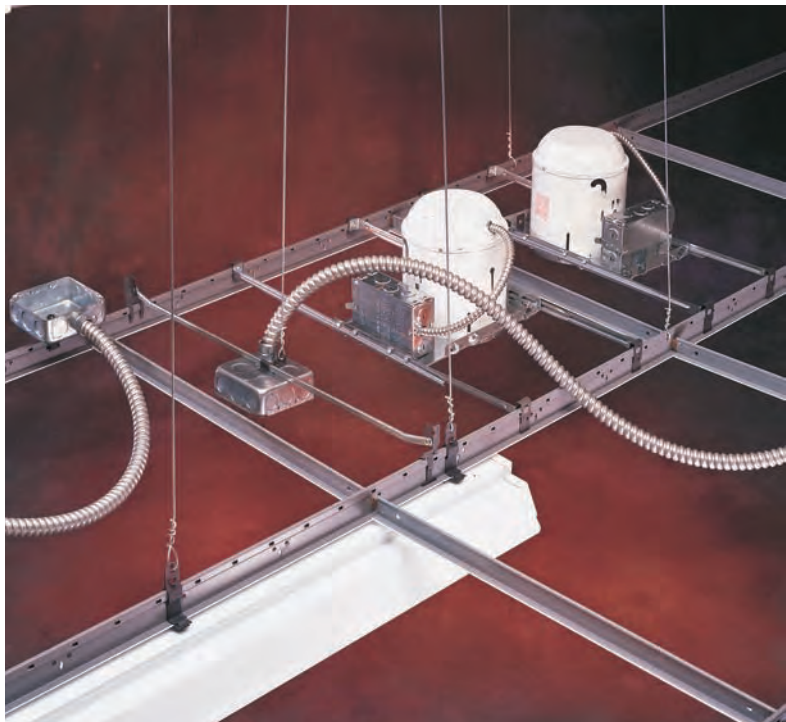
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
<b>W6 Series for 3/8" Plain or Threaded Rod **</b>			
78205152866	<b>BRC51-S18-W6</b>	Up to 4 runs .430" - .560"	25
78205152870	<b>BRC53-S18-W6</b>	Up to 7 runs .560" - .690"	25



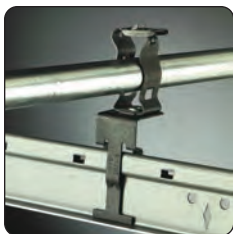
\*\* Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

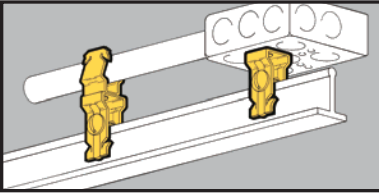
Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



Acoustical Tee



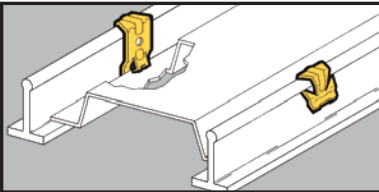


## T-Bar Support Fasteners

- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has 1/4"-20 thread impression for attachment to box or conduit fastener.
- **Warning:** Do not use for hanging acoustical tee.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118090	BA14	T-Bar Support Clip	100



## Troffer Fasteners

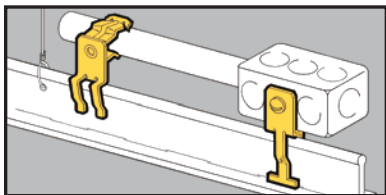
- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	BA15	For Straight Lip or Uprturned Lip Fixtures	100

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

## Side Mount T-Bar Fasteners

BA5-4T



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	<b>BA5-4T</b>	With 1/4"-20 Thread Impression	100

BG Series



BP Series

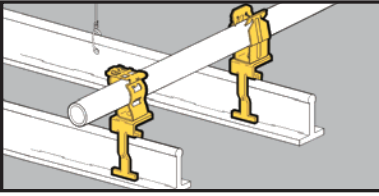


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118410	<b>BG-6-A5 *</b>	3/8"	100
78101118465	<b>BG-8-12-A5</b>	1/2", 3/4"	100
78101118545	<b>BG-16-A5</b>	1"	100
Patent #4958792			
78101119235	<b>BP-8-A5</b>	1/2" EMT	100
78101119335	<b>BP-12-A5</b>	3/4" EMT	100
		1/2" IMC, Rigid	
78101118545	<b>BP-16-A5</b>	1" EMT	100
		3/4" IMC, Rigid	

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

## Top Mount T-Bar Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118125	<b>BA6-4T</b>	With 1/4"-20 Thread Impression	100

BG Series



BP Series

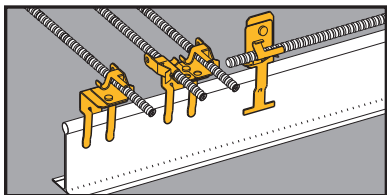


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101188540	<b>BG-6-A6 *</b>	3/8"	100
78101118470	<b>BG-8-12-A6</b>	1/2", 3/4"	100
78101118550	<b>BG-16-A6</b>	1"	100
Patent #4958792			
78101119240	<b>BP-8-A6</b>	1/2" EMT	100
78101119340	<b>BP-12-A6</b>	3/4" EMT	100
		1/2" IMC, Rigid	
78101119435	<b>BP-16-A6</b>	1" EMT	100
		3/4" IMC, Rigid	

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.  
 These products are designed for positioning only. No load rating.

# Acoustical Tee



- A positive method for supporting cable or flexible conduit above T-Bar.
- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.

## Top Mount T-Bar Fasteners

BX4-A6



BX4M-A6



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101220	<b>BX4-A6</b>	Single Runs	100
78101101216	<b>BX4M-A6</b>	Double Runs	100

Note: Fasteners will rotate 360°.

BX4-A5



BX4M-A5

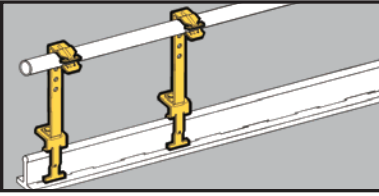


UPC/Part Number	Catalog Number	Description	Box Qty.
78101101187	<b>BX4-A5</b>	Single Runs	100
78101101211	<b>BX4M-A5</b>	Double Runs	100

Note: Fasteners will rotate 360°.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Acoustical Tee



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4<sup>1</sup>/<sub>4</sub>" to 7<sup>1</sup>/<sub>4</sub>".
- Conduit fasteners can be attached at <sup>3</sup>/<sub>4</sub>" increments.
- BX4M-A28 supports cable or FMC above T-Bar.

## Support Fasteners

BA28



BX4M-A28



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118115	<b>BA28</b>	1/2" Holes Allow for Adjustment Between 4 <sup>1</sup> / <sub>4</sub> " and 7 <sup>1</sup> / <sub>4</sub> " at <sup>3</sup> / <sub>4</sub> " Increments	50
78101101211	<b>BX4M-A28</b>	Double Runs MC, AC, or FMC	25

BP-12-A28



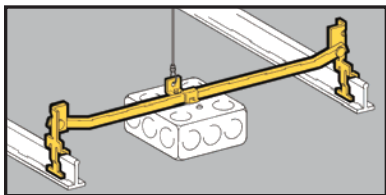
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119230	<b>BP-8-A28</b>	1/2" EMT	100
78101119330	<b>BP-12-A28</b>	3/4" EMT 1/2" IMC, Rigid	100
78101119425	<b>BP-16-A28</b>	1" EMT 3/4" IMC, Rigid	100

Note: Adjustable BP Conduit Fastener is attached with screw in 7<sup>1</sup>/<sub>4</sub>" top hole position.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



# Acoustical Tee



## Electrical Box T-Bar Fasteners



- See BA50 for a stronger, more cost effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or  $\frac{3}{4}$ " offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- **Warning:** Do not use for hanging acoustical tee.

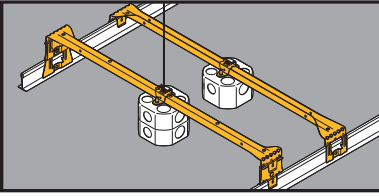
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118080	<b>BA12</b>	Box Hanger 24" Span	50
78101118082	<b>BA12-12</b>	Box Hanger 12" Span	50
78101118085	<b>BA120</b>	Box Hanger 20" Span	50
78101118087	<b>BA130</b>	Box Hanger 30" Span	50



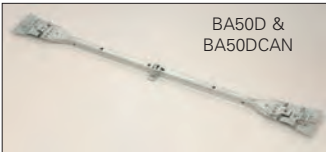
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118170	<b>BB27</b>	Box Mounting Clip (with Screw)	100
78101101673	<b>SRHMS<math>\frac{1}{4}</math>x<math>\frac{3}{8}</math></b>	$\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Slotted Round Head Machine Screw	50

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



## Heavy Duty Electrical Box Hanger



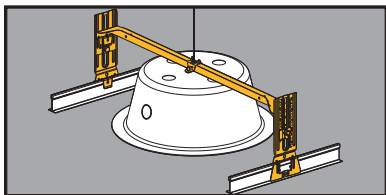
- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1 1/2" or 2 1/8" deep boxes without tools.
- Self-centering feature positions box on center.
- Includes BA50C4T Box Mounting Clip.
- Ultimate Static Load Capacity: 50 Lbs. (without dedicated dropwire)
- Static Load Capacity: 70 Lbs. (with dedicated dropwire) 35 Lbs. Canada
- Finish: Pre-galvanized
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101196490	<b>BA50</b>	Box Hanger	25
78205135905	<b>BA50CAN</b> *	Box Hanger	25
78101196491	<b>BA50D</b>	Box Hanger for Box with 1 1/2" Extension	25
78205135906	<b>BA50DCAN</b> *	Box Hanger Box with 1 1/2" Extension	25
78205136570	<b>BA50C4T</b>	Box Mounting Clip with Hardware	25
78205136571	<b>BA50C3T</b> *	Box Mounting Clip with Hardware	25
78101196489	<b>BA50E</b>	Extender Brackets with Hardware	10 pair

\* Canada Only

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



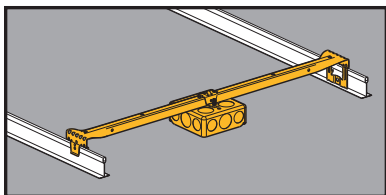
- Adjustable box support for suspended ceilings.
- Accommodates heights up to 8<sup>3</sup>/<sub>4</sub>".
- Integral ruler enables height adjustments without measuring.

## Adjustable Box Support



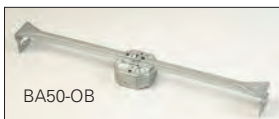
- Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.
- Static Load Capacity:  
25 Lbs. without dedicated dropwire  
70 Lbs. with dedicated dropwire  
35 Lbs. (Canada) with dedicated dropwire
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205118460	<b>BA50A</b>	Adjustable Box Hanger T-Bar	10



- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support.  
35 Lbs. in Canada
- 24" span

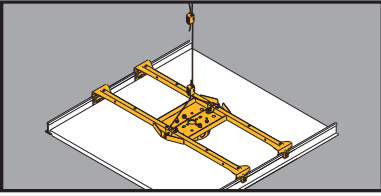
## Electrical Box T-Bar Fasteners



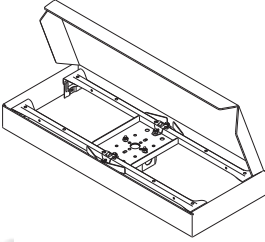
UPC/Part Number	Catalog Number	Description	Box Qty.
78205124855	<b>BA50-OB-24</b>	1 <sup>1</sup> / <sub>2</sub> " Deep Box to T-Bar Fastener	10
78205124856	<b>BA50-OB-34</b>	2 <sup>1</sup> / <sub>8</sub> " Deep Box to T-Bar Fastener	10
78205124857	<b>BA50-SB-24</b>	1 <sup>1</sup> / <sub>2</sub> " Deep Box to T-Bar Fastener	10
78205150954	<b>BA50-SB-34</b>	2 <sup>1</sup> / <sub>8</sub> " Deep Box to T-Bar Fastener	10

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee

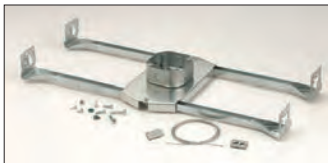
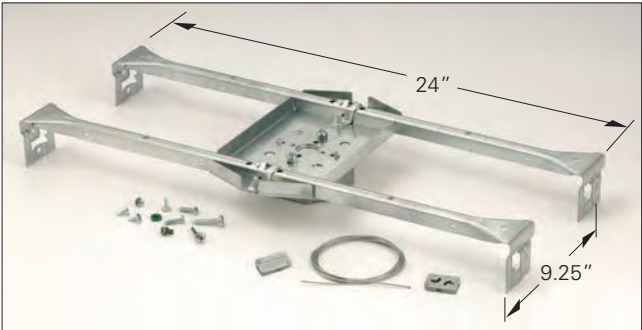


## RediMount™ Fan Hanger



- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire™ cable and clamps which attach to mounting clips for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs. 35 Lbs. Canada
- Finish: Pre-galvanized

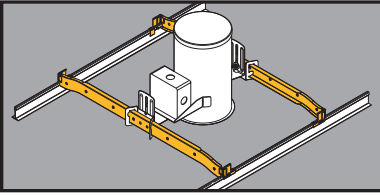
UPC/Part Number	Catalog Number	Description	Box Qty.
78101196492	BA50F	Fan/Fixture Hanger Includes 4" x 11/2" Deep Octagon Box	1



Acoustical Tee

Read safety/installation instruction sheets in packages before use.

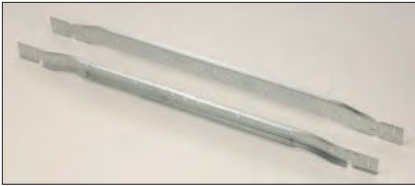
# Acoustical Tee



## QuikFix™ Fastening System



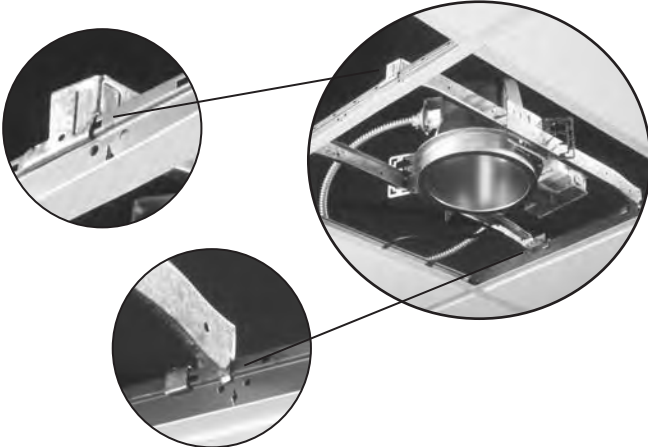
- New QuikFix™ Fastening System mounts spec grade downlights 50% faster than “wire bound” installation methods.
- QuikFix™ System is pre-sized for 24" spacing.
- No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.



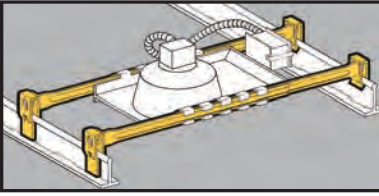
UPC/Part Number	Catalog Number	Description	Box Qty.
78205199873	<b>BA40</b>	Fixture Bar	20 pair

Patent # 6286265

- Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding.

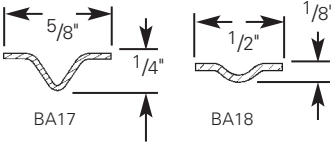


# Acoustical Tee

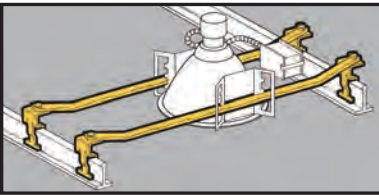


- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).

## Light Fixture T-Bar Fasteners



UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118100	<b>BA17</b> (Wide Bar)	CAPRI <sup>1</sup> R-9X, R-10X CAPRI <sup>1</sup> R-10X CAPRI <sup>1</sup> PR-751CX HALO <sup>2</sup> H7, HALO <sup>2</sup> H17 JUNO <sup>3</sup> AP, APT JUNO <sup>3</sup> IC, ICT, J, SC, TC THOMAS <sup>4</sup> RI-C	10 sets
78101118105	<b>BA18</b> (Narrow Bar)	CAPRI <sup>1</sup> HSG LIGHTOLIER <sup>5</sup> 711	10 sets



- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).

## Light Fixture T-Bar Fasteners



UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118110	<b>BA20</b> (Wide Bar)	Fits LIGHTOLIER <sup>5</sup> CALCULITE <sup>5</sup> Fixtures	10 sets

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.  
 2. HALO<sup>®</sup> is the registered trademark of Cooper Industries, Elk Grove, IL.  
 3. JUNO<sup>®</sup> is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.  
 4. THOMAS<sup>®</sup> is the registered trademark of Thomas Industries, Inc., Louisville, KY.  
 5. LIGHTOLIER<sup>®</sup> and CALCULITE<sup>®</sup> are the registered trademarks of Lightolier, Inc., Secaucus, NJ.

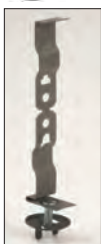
Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



- Allows for independent suspension of fixtures.
- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all 1/4"-20 suspension hangers.
- Static Load Capacity: 65 Lbs.

## Suspension Fasteners



BA1



BA1-T



BA1-T-BN

UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78101118065	<b>BA1</b>	15/16"	1/4"-20 x 5/8"	100
78101118070	<b>BA1-24</b>	15/16"	1/4"-20 x 1 1/2"	100
78101118075	<b>BA1-32</b>	15/16"	1/4"-20 x 2"	100
78101102891	<b>BA1-T</b>	15/16"	#8-32 x 5/8" with Pal Nut	100
78101102897	<b>BA1-T-BN</b>	15/16"	#8-32 x 5/8" with Brass Nut	100

Acoustical Tee

BA1-9

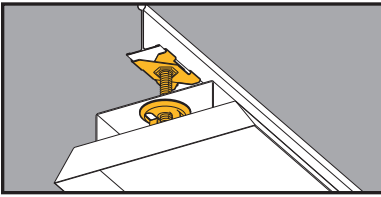


BA1-95



UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78205125585	<b>BA1-9</b>	9/16"	1/4"-20 x 5/8"	100
78205125587	<b>BA1-95</b>	9/16" & 15/16"	1/4"-20 x 5/8"	100

# Acoustical Tee

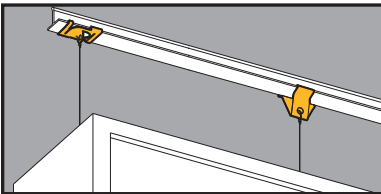


## T-Bar Scissor Fasteners

- Supports electrical fixtures from standard  $1\frac{5}{16}$ " T-Bars.
- BA-4-WN wing nut included.
- $\frac{1}{4}$ "-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.



UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101104258	<b>BAX-4-16</b>	$\frac{5}{8}$ "	100
78101104262	<b>BAX-4-16-24</b>	$1\frac{1}{2}$ "	100
78101104263	<b>BAX-4-16-32</b>	2"	100
78101104264	<b>BAX-4-16-48</b>	3"	100



## Sign Hangers

- BA-4-16-H supports signs from  $1\frac{5}{16}$ " T-Bar.
- BA-4-16-H1 supports signs from  $\frac{9}{16}$ " or  $1\frac{5}{16}$ " T-Bar.
- Static Load Capacity: 40 Lbs.



BA-4-16-H



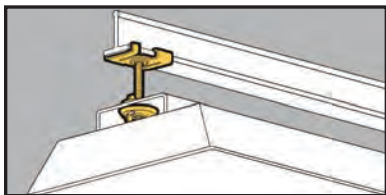
BA-4-16-H1

UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101118040	<b>BA-4-16-H</b>	Sign Hanger with White Finish	100
78101104449	<b>BA-4-16-H1</b>	Sign Hanger with Zinc Plated Finish	100

Read safety/installation instruction sheets in packages before use.



# Acoustical Tee



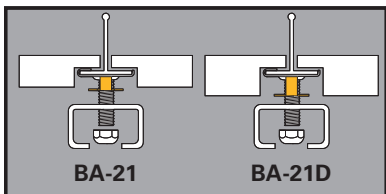
- Supports electrical fixtures from 15/16" T-Bar.
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity:  
BA4-16 Series = 50 lbs.  
BA4-WN Series = 100 lbs.

## 15/16" Twist Fasteners



BA-4-WN

UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118020	<b>BA-4-16</b>	Black	5/8"	100
78101118055	<b>BA-4-16-W</b>	White	5/8"	100
78101118025	<b>BA-4-16-24</b>	White	1 1/2"	100
78101118030	<b>BA-4-16-32</b>	White	2"	100
78101118035	<b>BA-4-16-48</b>	White	3"	100
78101118060	<b>BA-4-WN</b>	Black		100



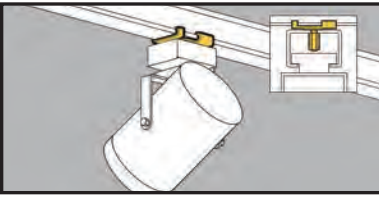
- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- Finish: Zinc Plated

## T-Bar Spacers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101195575	<b>BA-21</b>	1/4" Spacer	100
78101199567	<b>BA-21D</b>	3/8" Spacer	100

# Acoustical Tee



- Supports electrical fixtures from 15/16" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.

## 15/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118000	<b>BA-2-16</b>	Black	5/8" with Pal Nut	100
78101104259	<b>BA-2-16-7</b>	Black	7/16" with Pal Nut	100
78101118010	<b>BA-2-16-W</b>	White	5/8" with Pal Nut	100
78101104261	<b>BA-2-16-7-W</b>	White	7/16" with Pal Nut	100

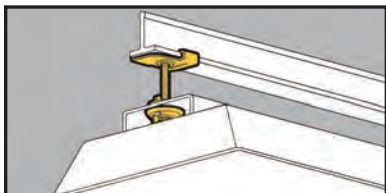


UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118015	<b>BA-2-16-BN</b>	Black	5/8" with Brass Nut	100
78101104260	<b>BA-2-16-7-BN</b>	Black	7/16" with Brass Nut	100
78101118015	<b>BA-2-16-WBN</b>	White	5/8" with Brass Nut	100
78101199566	<b>BA-2-16-7-WBN</b>	White	7/16" with Brass Nut	100

Acoustical Tee

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



- Supports electrical fixtures from 9/16" T-Bar.
- Stud size: 1/4"-20 x 5/8".
- Static Load Capacity: 40 Lbs.

## 9/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103458	<b>BA-4-9</b>	Black	5/8"	100
78101103461	<b>BA-4-9-W</b>	White	5/8"	100



- Supports electrical fixtures and track lighting from 9/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

## 9/16" Twist Fasteners

BA-2-9 Series with Pal Nut



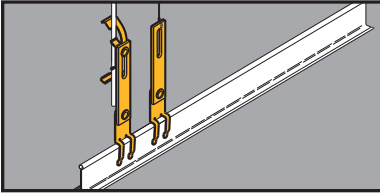
BA-2-9-BN Series with Brass Nut



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103467	<b>BA-2-9</b>	Black	5/8"	100
78101103466	<b>BA-2-9-7</b>	Black	7/16"	100
78101103459	<b>BA-2-9-W</b>	White	5/8"	100
78101103465	<b>BA-2-9-BN</b>	Black	5/8"	100
78101103464	<b>BA-2-9-7-BN</b>	Black	7/16"	100
78101103460	<b>BA-2-9-WBN</b>	White	5/8"	100

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



## Drop Wire/Rod Securing Clip

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



BA-311



BA-311-W2 Shown

UPC/Part Number	Catalog Number	Description	Box Qty.
78101199569	<b>BA311</b>	#12 thru #8 Wire	100
78101199570	<b>BA311-W2</b>	#12 thru 1/4" Plain or	100
78101199571	<b>BA311-W6</b>	3/8" Plain or Threaded Rod	100

Read safety/installation instruction sheets in packages before use.

# Acoustical Tee



## Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205145911	<b>BA-SFC</b>	Seismic Fixture Clamp attaches one standard 2' x 4' light fixture to T-Bar ceiling	25 sets (4 clamps per set)
78205145912	<b>BA-SFC-E*</b>	For attachment of two standard 2' x 4' light fixtures end-to-end onto T-Bar ceiling	25 sets (4 clamps per set)
78205145913	<b>BA-SFC-S*</b>	For attachment of two standard 2' x 4' light fixtures side-by-side onto T-Bar ceiling	25 sets (4 clamps per set)
78205145914	<b>BA-SFC-CF*</b>	For attachment of standard 2' x 2' light fixtures onto T-Bar	50 sets (2 clamps per set)
78205145915	<b>BA-SFC-CFS</b>	Seismic Fixture Clamp for reinforcement of main runner connection points	50 sets (2 clamps per set)

\* BASFC is required to complete installation.

## Seismic Fixture Clamps cont.



**BA-SFC**



**BA-SFC-E**



**BA-SFC-S**



**BA-SFC-CF**



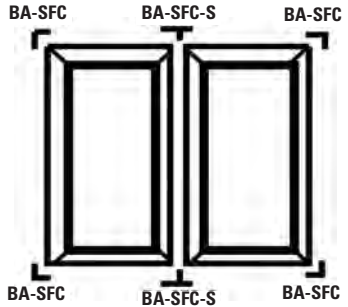
**BA-SFC-CFS**

Single Fixture  
Installation



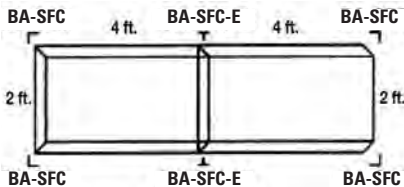
Parts Required:  
1 pc. BA-SFC Installation Kit

Two Fixtures (Side by Side)



Parts Required:  
1 pc. BA-SFC Installation Kit  
1 pc. BA-SFC-S Installation Kit

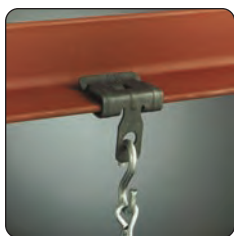
Two Fixtures (End to End)



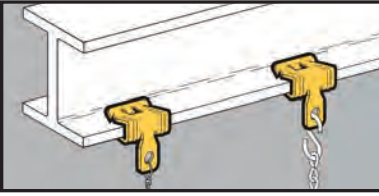
Parts Required:  
1 pc. BA-SFC Installation Kit  
1 pc. BA-SFC-E Installation Kit



# Beams



Beams



- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for 1/4" bolt in tab.
- Simply installed with a hammer.

## Flange Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118290	<b>BE-1-2</b>	3/32" - 9/64"	160 lbs.	100



BE-2-4

UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118295	<b>BE-2-4</b>	1/8" - 1/4"	200 lbs.	100
78101118300	<b>BE-5-8</b>	5/16" - 1/2"	200 lbs.	100
78101118305	<b>BE-9-12</b>	9/16" - 3/4"	200 lbs.	100

Read safety/installation instruction sheets in packages before use.



# Beams



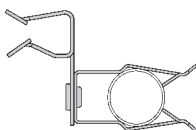
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

## Push-Type Conduit To Beam Fasteners



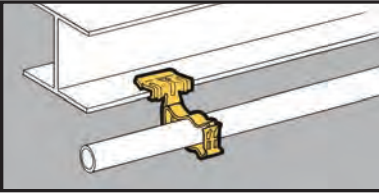
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119275	<b>BP-8-E-2-4</b>	1/2" EMT	1/8" - 1/4"	100
78101119280	<b>BP-8-E-5-8</b>	1/2" EMT	5/16" - 1/2"	100
78101119285	<b>BP-8-E-9-12</b>	1/2" EMT	9/16" - 3/4"	100
78101119375	<b>BP-12-E-2-4</b>	1/2" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119380	<b>BP-12-E-5-8</b>	1/2" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119385	<b>BP-12-E-9-12</b>	1/2" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119465	<b>BP-16-E-2-4</b>	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119470	<b>BP-16-E-5-8</b>	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119475	<b>BP-16-E-9-12</b>	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

**Ultimate  
Static Load  
Capacity**



15 Lbs.





- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

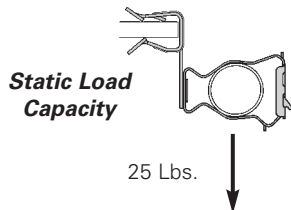
## Guide-Rite™ Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118430	<b>BG-6-E-2-4</b>	3/8"	1/8" - 1/4"	100
78101118435	<b>BG-6-E-5-8</b>	3/8"	5/16" - 1/2"	100
78101118440	<b>BG-6-E-9-12</b>	3/8"	9/16" - 3/4"	100
78101118505	<b>BG-8-12-E-2-4</b>	1/2", 3/4"	1/8" - 1/4"	100
78101118510	<b>BG-8-12-E-5-8</b>	1/2", 3/4"	5/16" - 1/2"	100
78101118515	<b>BG-8-12-E-9-12</b>	1/2", 3/4"	9/16" - 3/4"	100
78101118575	<b>BG-16-E-2-4</b>	1"	1/8" - 1/4"	100
78101118580	<b>BG-16-E-5-8</b>	1"	5/16" - 1/2"	100
78101118585	<b>BG-16-E-9-12</b>	1"	9/16" - 3/4"	100
78101118660	<b>BG-20-E-2-4</b>	1 1/4"	1/8" - 1/4"	100
78101118665	<b>BG-20-E-5-8</b>	1 1/4"	5/16" - 1/2"	100
78101118670	<b>BG-20-E-9-12</b>	1 1/4"	9/16" - 3/4"	100
78101118705	<b>BG-24-E-2-4</b>	1 1/2"	1/8" - 1/4"	50
78101118710	<b>BG-24-E-5-8</b>	1 1/2"	5/16" - 1/2"	50
78101118715	<b>BG-24-E-9-12</b>	1 1/2"	9/16" - 3/4"	50
78101118745	<b>BG-32-E-2-4</b>	2"	1/8" - 1/4"	50
78101118750	<b>BG-32-E-5-8</b>	2"	5/16" - 1/2"	50
78101118755	<b>BG-32-E-9-12</b>	2"	9/16" - 3/4"	50

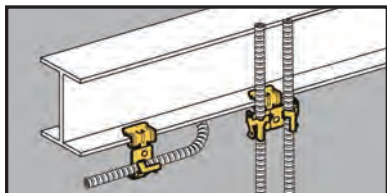
Patent #4958792

- \* BG-6 will accept the following range  $\varnothing.420$  -  $\varnothing.675$ :  
14/2 thru 10/4 MC/AC cable  
and 5/16 or 3/8 flexible conduit



Read safety/installation instruction sheets in packages before use.

# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

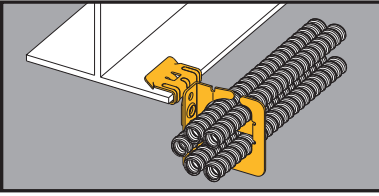
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101192	<b>BX4-E-2-4</b>	Single	1/8" - 1/4"	100
78101101193	<b>BX4-E-5-8</b>	Single	5/16" - 1/2"	100
78101101194	<b>BX4-E-9-12</b>	Single	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101213	<b>BX4M-E-2-4</b>	Double	1/8" - 1/4"	100
78101101214	<b>BX4M-E-5-8</b>	Double	5/16" - 1/2"	100
78101101215	<b>BX4M-E-9-12</b>	Double	5/16" - 3/4"	100



## MC/AC Cable Carrier to Beam Fastener

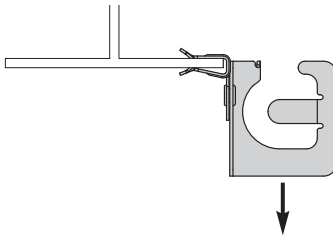


BRC5-2-E24



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144093	<b>BRC51-E12</b>	3/32" - 9/64"	25
78205144096	<b>BRC51-E24</b>	1/8" - 1/4"	25
78205144099	<b>BRC51-E58</b>	5/16" - 1/2"	25
78205144102	<b>BRC51-E912</b>	9/16" - 3/4"	25
78205144094	<b>BRC52-E12</b>	3/32" - 9/64"	25
78205144097	<b>BRC52-E24</b>	1/8" - 1/4"	25
78205144100	<b>BRC52-E58</b>	5/16" - 1/2"	25
78205144103	<b>BRC52-E912</b>	9/16" - 3/4"	25
78205144095	<b>BRC53-E12</b>	3/32" - 9/64"	25
78205144098	<b>BRC53-E24</b>	1/8" - 1/4"	25
78205144101	<b>BRC53-E58</b>	5/16" - 1/2"	25
78205144104	<b>BRC53-E912</b>	9/16" - 3/4"	25

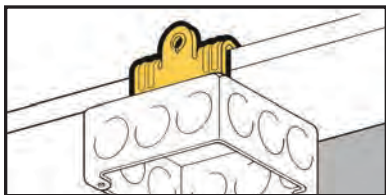


**Static Load Capacity**

50 Lbs.

Read safety/installation instruction sheets in packages before use.

# Beams



- Suspend boxes or fixtures from beam flanges 1/8" to 3/4" thick.
- Provided with 1/4"-20 thread impression for quick and secure attachment.
- Simply installed with a hammer.

## Universal Beam Fasteners



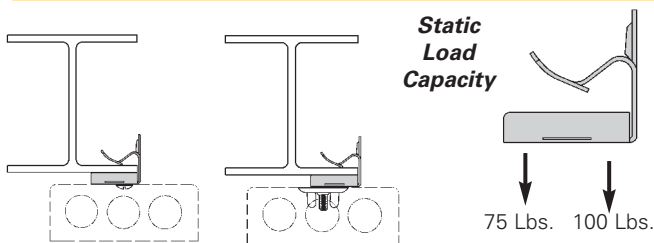
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119600	<b>BU-2-4</b>	1/8" - 1/4"	100
78101119605	<b>BU-5-8</b>	5/16" - 1/2"	100
78101119610	<b>BU-9-12</b>	9/16" - 3/4"	100



1/4\"-20 x 3/8\"  
Staked Stud

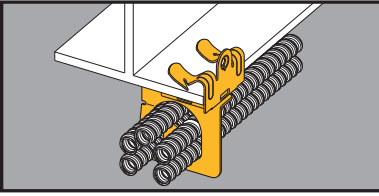
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119615	<b>BU-2-4-S</b>	1/8" - 1/4"	100
78101119620	<b>BU-5-8-S</b>	5/16" - 1/2"	100
78101119625	<b>BU-9-12-S</b>	9/16" - 3/4"	100

Beams



Note: Indicated loads are static load capacity and should not be combined.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

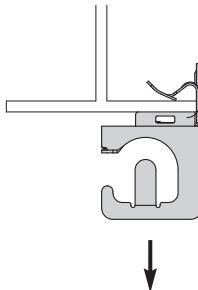


## MC/AC Cable Carrier to Beam Fastener



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144066	<b>BRC51-U24</b>	1/8" - 1/4"	25
78205144069	<b>BRC51-U58</b>	5/16" - 1/2"	25
78205144072	<b>BRC51-U912</b>	9/16" - 3/4"	25
78205144067	<b>BRC52-U24</b>	1/8" - 1/4"	25
78205144070	<b>BRC52-U58</b>	5/16" - 1/2"	25
78205144073	<b>BRC52-U912</b>	9/16" - 3/4"	25
78205144068	<b>BRC53-U24</b>	1/8" - 1/4"	25
78205144071	<b>BRC53-U58</b>	5/16" - 1/2"	25
78205144074	<b>BRC53-U912</b>	9/16" - 3/4"	25

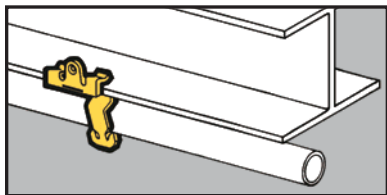


**Static Load Capacity**

75 Lbs.

Read safety/installation instruction sheets in packages before use.

# Beams



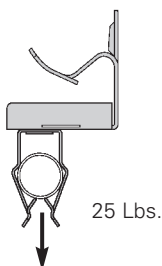
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

## Push-Type Conduit To Beam Fasteners

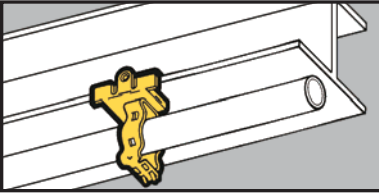


UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119310	<b>BP-8-U-2-4</b>	1/2" EMT	1/8" - 1/4"	100
78101119315	<b>BP-8-U-5-8</b>	1/2" EMT	5/16" - 1/2"	100
78101119320	<b>BP-8-U-9-12</b>	1/2" EMT	9/16" - 3/4"	100
78101119405	<b>BP-12-U-2-4</b>	3/4" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119410	<b>BP-12-U-5-8</b>	3/4" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119415	<b>BP-12-U-9-12</b>	3/4" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119490	<b>BP-12-U-2-4</b>	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119495	<b>BP-12-U-5-8</b>	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119500	<b>BP-12-U-9-12</b>	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

**Ultimate  
Static Load  
Capacity**



Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

## Guide-Rite™ Conduit To Beam Fasteners

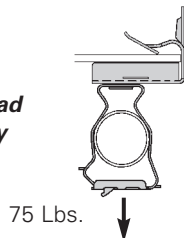


UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118450	<b>BG-6-U-2-4</b>	3/8"	1/8" - 1/4"	100
78101118455	<b>BG-6-U-5-8</b>	3/8"	5/16" - 1/2"	100
78101118460	<b>BG-6-U-9-12</b>	3/8"	9/16" - 3/4"	100
78101118525	<b>BG-8-12-U-2-4</b>	1/2", 3/4"	1/8" - 1/4"	100
78101118530	<b>BG-8-12-U-5-8</b>	1/2", 3/4"	5/16" - 1/2"	100
78101118535	<b>BG-8-12-U-9-12</b>	1/2", 3/4"	9/16" - 3/4"	100
78101118625	<b>BG-16-U-2-4</b>	1"	1/8" - 1/4"	100
78101118630	<b>BG-16-U-5-8</b>	1"	5/16" - 1/2"	100
78101118635	<b>BG-16-U-9-12</b>	1"	9/16" - 3/4"	100
78101118680	<b>BG-20-U-2-4</b>	1 1/4"	1/8" - 1/4"	100
78101118685	<b>BG-20-U-5-8</b>	1 1/4"	5/16" - 1/2"	100
78101118690	<b>BG-20-U-9-12</b>	1 1/4"	9/16" - 3/4"	100
78101118720	<b>BG-24-U-2-4</b>	1 1/2"	1/8" - 1/4"	50
78101118725	<b>BG-24-U-5-8</b>	1 1/2"	5/16" - 1/2"	50
78101118730	<b>BG-24-U-9-12</b>	1 1/2"	9/16" - 3/4"	50
78101118760	<b>BG-32-U-2-4</b>	2"	1/8" - 1/4"	50
78101118765	<b>BG-32-U-5-8</b>	2"	5/16" - 1/2"	50
78101118770	<b>BG-32-U-9-12</b>	2"	9/16" - 3/4"	50

Patent #4958792

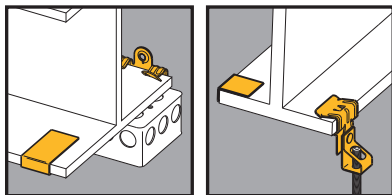
- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable  
and 5/16 or 3/8 flexible conduit

**Static Load  
Capacity**





# Beams



- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

## Beam Fasteners With Anchor Straps



### Static Load Capacity

75 Lbs.



UPC/Part Number	Catalog Number	Stud Size	Flange Thickness	Box Qty.
78101104942	<b>BU-2-4-S-AS</b>	1/4"-20 x 3/8"	1/8" - 1/4"	50
78101104943	<b>BU-5-8-S-AS</b>	1/4"-20 x 3/8"	5/16" - 1/2"	50
78101104944	<b>BU-9-12-S-AS</b>	1/4"-20 x 3/8"	9/16" - 3/4"	50

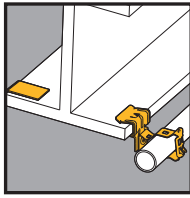
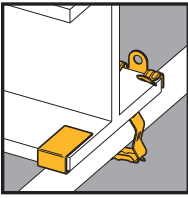


### Static Load Capacity

160 Lbs.



UPC/Part Number	Catalog Number	Threaded Rod Size	Flange Thickness	Box Qty.
78101104948	<b>BH4-E-2-4-AS</b>	1/4"-20	1/8" - 1/4"	50
78101104949	<b>BH4-E-5-8-AS</b>	1/4"-20	5/16" - 1/2"	50
78101104950	<b>BH4-E-9-12-AS</b>	1/4"-20	9/16" - 3/4"	50
78101104951	<b>BH6-E-2-4-AS</b>	3/8"-16	1/8" - 1/4"	50
78101104952	<b>BH6-E-5-8-AS</b>	3/8"-16	5/16" - 1/2"	50
78101104953	<b>BH6-E-9-12-AS</b>	3/8"-16	9/16" - 3/4"	50



- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite™ Fastener provides for fast and easy installation.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

## Conduit To Beam Fasteners With Anchor Straps



**Static Load Capacity**

75 Lbs.

UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104966	<b>BG-8-12-U-2-4-AS</b>	1/2", 3/4"	1/8" - 1/4"	50
78101104967	<b>BG-8-12-U-5-8-AS</b>	1/2", 3/4"	5/16" - 1/2"	50
78101104968	<b>BG-8-12-U-9-12-AS</b>	1/2", 3/4"	9/16" - 3/4"	50
78101104969	<b>BG-16-U-2-4-AS</b>	1"	1/8" - 1/4"	50
78101104970	<b>BG-16-U-5-8-AS</b>	1"	5/16" - 1/2"	50
78101104971	<b>BG-16-U-9-12-AS</b>	1"	9/16" - 3/4"	50



**Static Load Capacity**

25 Lbs.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104972	<b>BG-8-12-E-2-4-AS</b>	1/2", 3/4"	1/8" - 1/4"	50
78101104973	<b>BG-8-12-E-5-8-AS</b>	1/2", 3/4"	5/16" - 1/2"	50
78101104974	<b>BG-8-12-E-9-12-AS</b>	1/2", 3/4"	9/16" - 3/4"	50
78101104975	<b>BG-16-E-2-4-AS</b>	1"	1/8" - 1/4"	50
78101104976	<b>BG-16-E-5-8-AS</b>	1"	5/16" - 1/2"	50
78101104977	<b>BG-16-E-9-12-AS</b>	1"	9/16" - 3/4"	50

Read safety/installation instruction sheets in packages before use.

# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

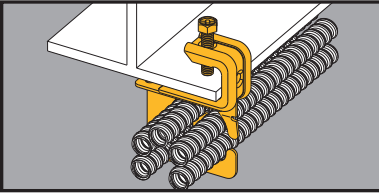
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101197	<b>BX4-U-2-4</b>	Single Runs	1/8" - 1/4"	100
78101101198	<b>BX4-U-5-8</b>	Single Runs	5/16" - 1/2"	100
78101101199	<b>BX4-U-9-12</b>	Single Runs	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101206	<b>BX4M-U-2-4</b>	Double Runs	1/8" - 1/4"	100
78101101207	<b>BX4M-U-5-8</b>	Double Runs	5/16" - 1/2"	100
78101101208	<b>BX4M-U-9-12</b>	Double Runs	9/16" - 3/4"	100



## MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from 1/8" thru 5/8" thick.
- Load Capacity: 50 lbs.



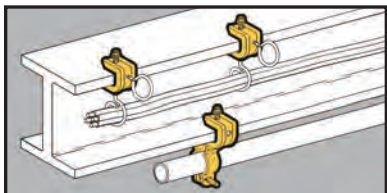
BRC5-1-C442



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144087	<b>BRC51-C442</b>	.430" to .560" Up to 4 Runs	25
78205144088	<b>BRC52-C442</b>	.430" to .560" Up to 9 Runs	25
78205144089	<b>BRC53-C442</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.

# Beams



- BC442 fits beam flanges 1/8" to 5/8". BC442-6 fits beam flanges up to 3/4".
- Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.

## Beam Fasteners

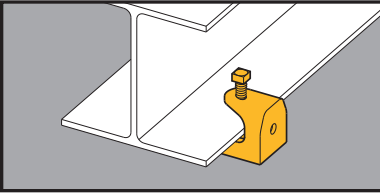


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118278	<b>BC442</b>	Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings	50
78101104283	<b>BC442-6</b>	Accepts 3/8"-16 Threaded Rod	25



UPC/Part Number	Catalog Number	Conduit Size		Box Qty.
		Rigid	EMT	
78101119850	<b>BL1400-C442</b>	1/2"	1/2"	50
78101119851	<b>BL1410-C442</b>	3/4"	3/4"	50
78101119852	<b>BL1420-C442</b>	1"	1"	50
78101119853	<b>BL1425-C442</b>	–	1 1/4"	50
78101119854	<b>BL1430-C442</b>	1 1/4"	1 1/2"	50
78101119855	<b>BL1440-C442</b>	1 1/2"	–	25
78101119856	<b>BL1450-C442</b>	2"	2"	25

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through 1/2" thick.
- Safety Factor of 5.
- Finish: Zinc-Plated

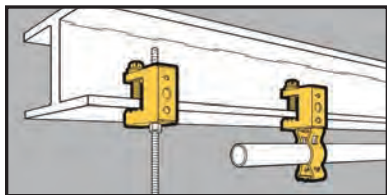
## Beam Fasteners



UPC/Part Number	Catalog Number	Rod Size	Static Load Cap.	Box Qty.
78101155333	<b>B444-1/4</b>	1/4"-20	150 lbs.	50
78101155333	<b>B444-5/16</b>	5/16"-18	150 lbs.	50
78101155333	<b>B444-3/8</b>	3/8"-16	150 lbs.	50

Read safety/installation instruction sheets in packages before use.

# Beams



- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.

## Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118275	<b>BC1</b>	Thru 1/42	100 lbs.	100

**Guide-Rite™**  
Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118490	<b>BG-8-12-C2</b>	1/2", 3/4"	100 lbs.	100
78101118570	<b>BG-16-C2</b>	1"	100 lbs.	100
78101118655	<b>BG-20-C2</b>	1 1/4"	100 lbs.	100
78101118700	<b>BG-24-C2</b>	1 1/2"	100 lbs.	100
78101118740	<b>BG-32-C2</b>	2"	100 lbs.	100

Read safety/installation instruction sheets in packages before use.

## Conduit To Beam Fasteners



Guide-Rite™  
Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118485	<b>BG-8-12-C1</b>	1/2", 3/4"	25 lbs.	100
78101118565	<b>BG-16-C1</b>	1"	25 lbs.	100
78101118650	<b>BG-20-C1</b>	1 1/4"	25 lbs.	100
78101118695	<b>BG-24-C1</b>	1 1/2"	25 lbs.	50
78101118735	<b>BG-32-C1</b>	2"	25 lbs.	50



Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119260	<b>BP-8-C2</b>	1/2" EMT	25 lbs.	100
78101119360	<b>BP-12-C2</b>	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119455	<b>BP-16-C2</b>	1" EMT 3/4" IMC, Rigid	25 lbs.	100



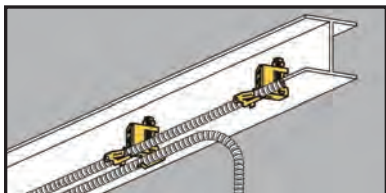
Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119255	<b>BP-8-C1</b>	1/2" EMT	25 lbs.	100
78101119355	<b>BP-12-C1</b>	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119450	<b>BP-16-C1</b>	1" EMT 3/4" IMC, Rigid	25 lbs.	100

Read safety/installation instruction sheets in packages before use.



# Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

## Cable To Beam Fasteners



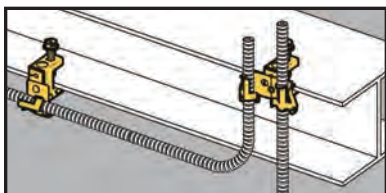
BX4-C2



BX4M-C2



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101190	<b>BX4-C2</b>	Single Runs	100
78101101210	<b>BX4M-C2</b>	Double Runs	100



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

## Cable To Beam Fasteners



BX4-C1

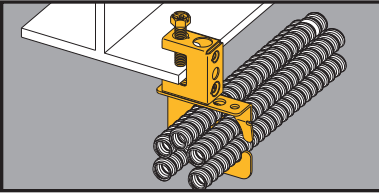


BX4M-C1



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101191	<b>BX4-C1</b>	Single Runs	100
78101101209	<b>BX4M-C1</b>	Double Runs	100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



## MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru 1/2" thick.
- Load Capacity: 50 lbs.



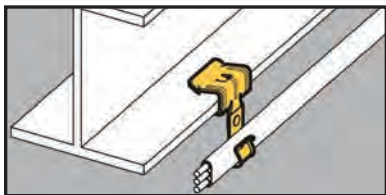
BRC5-x-C2



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144090	<b>BRC51-C2</b>	.430" to .560" Up to 4 Runs	25
78205144091	<b>BRC52-C2</b>	.430" to .560" Up to 9 Runs	25
78205144092	<b>BRC53-C2</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.

# Beams

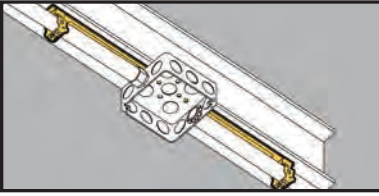


- Attaches Type NM cable to beam flanges 1/8" to 1/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101103550	<b>BRC3-E-2-4</b>	1/8" to 1/4"	100
78101103551	<b>BRC3-E-5-8</b>	5/16" to 1/2"	100
78101103552	<b>BRC3-E-9-12</b>	9/16" to 3/4"	100

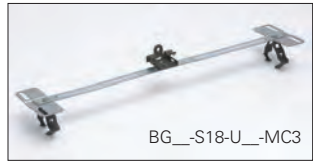
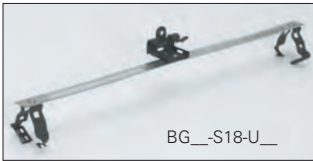


## Guide-Rite™ Conduit & Box Support Fasteners



- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101103583	<b>BG6-S18-U24 *</b>	3/8"	1/8" to 1/4"	25
78101103584	<b>BG6-S18-U58 *</b>	3/8"	5/16" to 1/2"	25
78101103579	<b>BG812-S18-U24</b>	1/2", 3/4"	1/8" to 1/4"	25
78101103580	<b>BG812-S18-U58</b>	1/2", 3/4"	5/16" to 1/2"	25
78101103581	<b>BG16-S18-U24</b>	1"	1/8" to 1/4"	25
78101103582	<b>BG16-S18-U58</b>	1"	5/16" to 1/2"	25

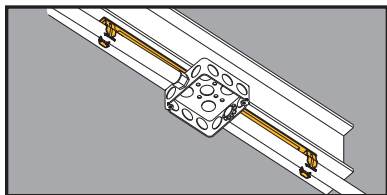
Patent #4958792

### With Multiple Conduit Plate

78205152813	<b>BG6-S18-U24-MC3 *</b>	3/8"	1/8" to 1/4"	25
78205152814	<b>BG6-S18-U58-MC3 *</b>	3/8"	5/16" to 1/2"	25
78205152815	<b>BG812-S18-U24-MC3</b>	1/2", 3/4"	1/8" to 1/4"	25
78205152816	<b>BG812-S18-U58-MC3</b>	1/2", 3/4"	5/16" to 1/2"	25
78205152817	<b>BG16-S18-U24-MC3</b>	1"	1/8" to 1/4"	25
78205152823	<b>BG16-S18-U58-MC3</b>	1"	5/16" to 1/2"	25

- \* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

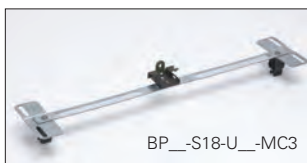
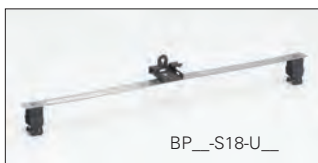
# Beams



## Push-Type Conduit & Box Support Fasteners

- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



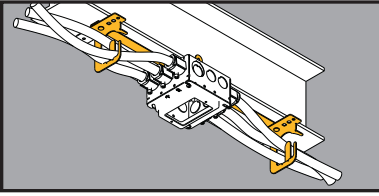
UPC/Part Number	Catalog Number	Conduit Size EMT, IMC, Rigid	Flange Thickness	Box Qty.
78205123635	<b>BP8-S18-U24</b>	3/8"	1/8" to 1/4"	25
78205123638	<b>BP8-S18-U58</b>	3/8"	5/16" to 1/2"	25
78205123636	<b>BP12-S18-U24</b>	1/2", 3/4"	1/8" to 1/4"	25
78205123639	<b>BP12-S18-U58</b>	1/2", 3/4"	5/16" to 1/2"	25
78205123637	<b>BP16-S18-U24</b>	1"	1/8" to 1/4"	25
78205123640	<b>BP16-S18-U58</b>	1"	5/16" to 1/2"	25

Patent #4958792

### With Multiple Conduit Plate

78205152824	<b>BP8-S18-U24-MC3</b>	3/8"	1/8" to 1/4"	25
78205152825	<b>BP8-S18-U58-MC3</b>	3/8"	5/16" to 1/2"	25
78205152827	<b>BP12-S18-U24-MC3</b>	1/2", 3/4"	1/8" to 1/4"	25
78205152828	<b>BP12-S18-U58-MC3</b>	1/2", 3/4"	5/16" to 1/2"	25
78205152825	<b>BP16-S18-U24-MC3</b>	1"	1/8" to 1/4"	25
78205152964	<b>BP16-S18-U58-MC3</b>	1"	5/16" to 1/2"	25

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.



## Multi-Run Cable Carrier & Box Support Fastener

- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retention tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



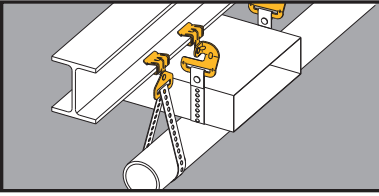
UPC/Part Number	Catalog Number	Conduit Size Number of Runs	Flange Thickness	Box Qty.
78205152829	<b>BRC51-S18-U24</b>	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152830	<b>BRC51-S18-U58</b>	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25
78205152834	<b>BRC53-S18-U24</b>	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152835	<b>BRC53-S18-U58</b>	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25

Read safety/installation instruction sheets in packages before use.

# Hangers



Hangers



- Suspends straps thru 1 1/2" wide from beam flanges 1/8" to 3/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

## Strap Hangers

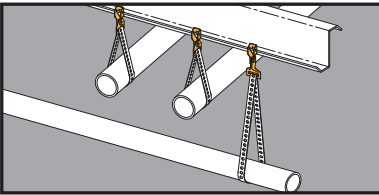


Parallel



Right Angle

UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101104930	<b>BHE-1-2</b>	Parallel	1/16" to 1/8"	100
78101118870	<b>BH-2-4</b>	Parallel	1/8" to 1/4"	100
78101118880	<b>BH-5-8</b>	Parallel	5/16" to 1/2"	100
78101118890	<b>BH-9-12</b>	Parallel	9/16" to 3/4"	100
78101104115	<b>BH-1-2-R</b>	Right Angle	1/16" to 1/8"	100
78101118875	<b>BH-2-4-R</b>	Right Angle	1/8" to 1/4"	100
78101118885	<b>BH-5-8-R</b>	Right Angle	5/16" to 1/2"	100
78101118895	<b>BH-9-12-R</b>	Right Angle	9/16" to 3/4"	100



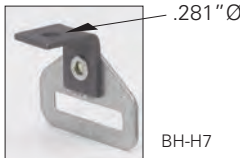
"Z" Purlin Hangers



BH-F12



BH-F12-R



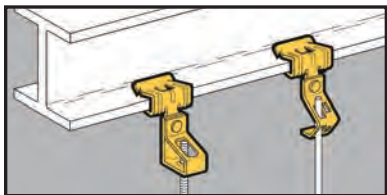
BH-H7

UPC/Part Number	Catalog Number	Description	Box Qty.
78101103385	<b>BH-F12</b>	Right Angle	100
78101103384	<b>BH-F12-R</b>	Parallel	100
78101119922	<b>BH-H7</b>	Parallel	100

Read safety/installation instruction sheets in packages before use.



# Hangers



- Suspend wire or plain and threaded rod from beam flanges 1/8" to 3/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

## Rod To Beam Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118900	<b>BH1-E-2-4</b>	1/8" to 1/4"	#8 Wire or 1/4" Plain Rod	100
78101118905	<b>BH1-E-5-8</b>	5/16" - 1/2"	#8 Wire or 1/4" Plain Rod	100
78101118910	<b>BH1-E-9-12</b>	9/16" - 3/4"	#8 Wire or 1/4" Plain Rod	100

UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118940	<b>BH2-E-2-4</b>	1/8" to 1/4"	3/8"	100
78101118945	<b>BH2-E-5-8</b>	5/16" - 1/2"	3/8"	100
78101118950	<b>BH2-E-9-12</b>	9/16" - 3/4"	3/8"	100

## Rod To Beam Hangers



With Thread Impression



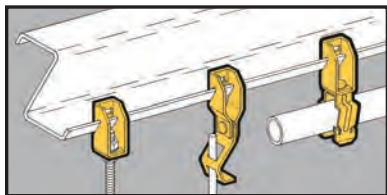
UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101118980	<b>BH4-E-2-4</b>	1/8" to 1/4"	1/4"	100
78101118985	<b>BH4-E-5-8</b>	5/16" - 1/2"	1/4"	100
78101118990	<b>BH4-E-9-12</b>	9/16" - 3/4"	1/4"	100
78101119060	<b>BH6-E-2-4</b>	1/8" to 1/4"	3/8"	100
78101119065	<b>BH6-E-5-8</b>	5/16" - 1/2"	3/8"	100
78101119070	<b>BH6-E-9-12</b>	9/16" - 3/4"	3/8"	100

Note: BH4 and BH6 have thread impressions.

UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101119020	<b>BH5-E-2-4 *</b>	1/8" to 1/4"	1/4" to 3/8"	100
78101119025	<b>BH5-E-5-8 *</b>	5/16" - 1/2"	1/4" to 3/8"	100
78101119030	<b>BH5-E-9-12 *</b>	9/16" - 3/4"	1/4" to 3/8"	100

\*Nuts Required.

# Hangers



## "Z" Purlin Hangers

- Compensates for angle of purlin lip.
- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of  $\frac{3}{32}$ ".

BF13



BF12



UPC/Part Number	Catalog Number	Description	Static Load Cap. Lbs.	Box Qty.
78101118345	<b>BF13</b>	With $\frac{1}{4}$ " Hole	100	100
78101118340	<b>BF12</b>	For "S" Hooks	100	100



**Guide-Rite™**  
Fastener  
BG Series



Push-Type  
BP Series

UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap. Lbs.	Box Qty.
78101118445	<b>BG-6-F13 *</b>	$\frac{3}{8}$ "	100	100
78101118520	<b>BG-8-12-F13</b>	$\frac{1}{2}$ ", $\frac{3}{4}$ "	100	100
78101118590	<b>BG-16-F13</b>	1"	100	100
78101118675	<b>BG-20-F13</b>	$1\frac{1}{4}$ "	100	100
78101119290	<b>BP-8-F13</b>	$\frac{1}{2}$ " EMT	25	100
78101119390	<b>BP-12-F13</b>	$\frac{3}{4}$ " EMT $\frac{1}{2}$ " IMC, Rigid	25	100
78101119480	<b>BP-16-F13</b>	1" EMT $\frac{3}{4}$ " IMC, Rigid	25	50

\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
 $1\frac{1}{2}$  thru  $10\frac{1}{4}$  MC/AC cable and  $\frac{5}{16}$  or  $\frac{3}{8}$  flexible conduit

Read safety/installation instruction sheets in packages before use.

## Universal Beam Fasteners



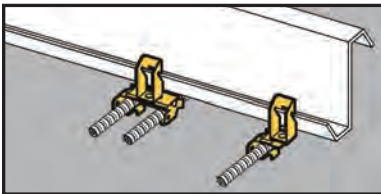
UPC/Part Number	Catalog Number	Description	Static Load Cap.	Box Qty.
78101118920	<b>BH1-F12</b>	#8 Wire or 1/4" Plain Rod	100 Lbs.	100
78101118960	<b>BH2-F12</b>	3/8" Plain Rod	100 Lbs.	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Static Load Cap.	Box Qty.
78101119000	<b>BH4-F12</b>	1/4"	100 Lbs.	100
78101119080	<b>BH6-F12</b>	3/8"	100 Lbs.	100
78101119040	<b>BH5-F12 *</b>	1/4" & 3/8"	100 Lbs.	100

\*Nuts Required.

Note: BH4 and BH6 have thread impressions.



## Cable To "Z" Purlin Flange Hangers

- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to "Z" Purlins up to 3/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



BX4-F13



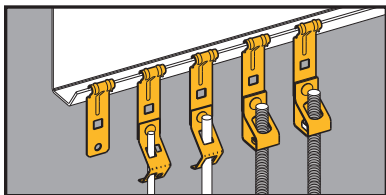
BX4M-F13



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101188	<b>BX4-F13</b>	Single Runs	Thru 3/32"	100
78101101204	<b>BX4M-F13</b>	Double Runs	Thru 3/32"	100

Read safety/installation instruction sheets in packages before use.

# Hangers



## "Z" Purlin Flange Hangers

- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins 1/16" to 1/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104271	BF4	For "S" Hooks, Bolting Straps and Wrap Wire	100

## "Z" Purlin Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104274	<b>BH1-F4</b>	#8 Wire or 1/4" Plain Rod	100
78101104276	<b>BH2-F4</b>	3/8" Plain Rod	100

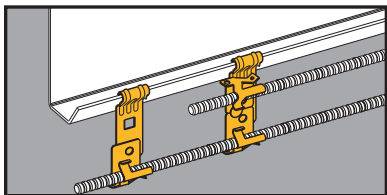


UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104286	<b>BH4-F4</b>	1/4"	100
78101104280	<b>BH6-F4</b>	3/8"	100
78101104278	<b>BH5-F4 *</b>	1/4" - 3/8"	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.

# Hangers



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

## Cable To "Z" Purlin Flange Hangers



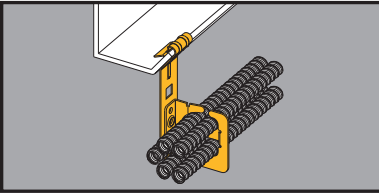
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104931	<b>BX4-F4</b>	Single Runs	100

These products are designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104932	<b>BX4M-F4</b>	Double Runs	100

These products are designed for positioning only. No load rating.



## MC/AC Cable Carrier to 'Z' Purlin Flange Hanger

- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.

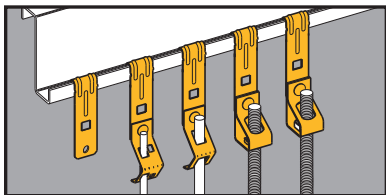


UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144084	<b>BRC51-F4</b>	.430" to .560" Up to 4 Runs	25
78205144085	<b>BRC52-F4</b>	.430" to .560" Up to 9 Runs	25
78205144086	<b>BRC53-F4</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.



# Hangers



- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104270	<b>BF3</b>	For "S" Hooks, Bolting Straps and Wrap Wire	100

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104273	<b>BH1-F3</b>	#8 Wire or 1/4" Plain Rod	100
78101104275	<b>BH2-F3</b>	3/8" Plain Rod	100



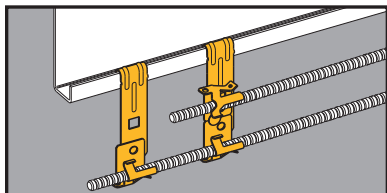
4 1/4"  
Overall Height

UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104285	<b>BH4-F3</b>	1/4"	100
78101104279	<b>BH6-F3</b>	3/8"	100
78101104933	<b>BH5-F3 *</b>	1/4", 3/8"	100

\* Nuts required.

Read safety/installation instruction sheets in packages before use.

# Hangers



## Cable To Vertical Flange Hangers

- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" flexible conduit FMC to vertical flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



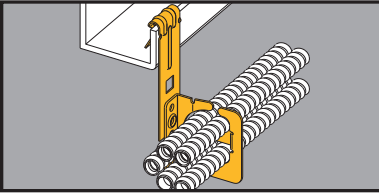
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104281	<b>BX4-F3</b>	Single Runs	100

This product is designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104282	<b>BX4M-F3</b>	Double Runs	100

This product is designed for positioning only. No load rating.



## MC/AC Cable Carrier To Vertical Flange Hanger

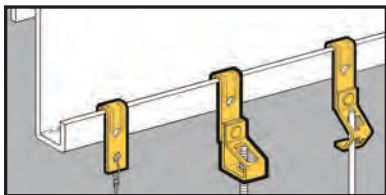
- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144081	<b>BRC51-F3</b>	.430" to .560" Up to 4 Runs	25
78205144084	<b>BRC52-F3</b>	.430" to .560" Up to 9 Runs	25
78205144083	<b>BRC53-F3</b>	.560" to .690" Up to 7 Runs	25

Read safety/installation instruction sheets in packages before use.

# Hangers



- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118310	<b>BF1</b>	1/16" - 5/32"	For "S" Hooks, Bolting Straps and Wrap Wire	100
78101118315	<b>BF2</b>	5/32" - 1/4"	For "S" Hooks, Bolting Straps and Wrap Wire	100



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118915	<b>BH1-F1</b>	1/16" - 5/32"	#8 Wire or 1/4" Plain Rod	100
78101118925	<b>BH1-F2</b>	5/32" - 1/4"	#8 Wire or 1/4" Plain Rod	100

## Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118955	<b>BH2-F1</b>	1/16" - 5/32"	3/8"	100
78101118965	<b>BH2-F2</b>	5/32" - 1/4"	3/8"	100



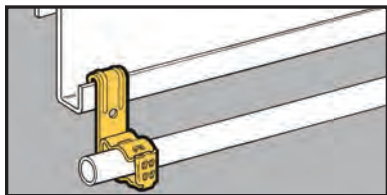
UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
<b>With Thread Impression</b>				
78101118995	<b>BH4-F1</b>	1/16" - 5/32"	1/4"	100
78101119075	<b>BH6-F1</b>	1/16" - 5/32"	3/8"	100
78101119005	<b>BH4-F2</b>	5/32" - 1/4"	1/4"	100
78101119085	<b>BH6-F2</b>	5/32" - 1/4"	3/8"	100

### With Clearance Hole

78101118995	<b>BH5-F1 *</b>	1/16" - 5/32"	1/4", 3/8"	100
78101119075	<b>BH5-F2 *</b>	5/32" - 1/4"	1/4", 3/8"	100

\* Nuts required.

# Hangers



- Supports 3/8" to 1" conduit from vertical flanges 1/16" to 1/4" thick.
- Patented Guide-Rite™ feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

## Conduit To Vertical Flange Hangers



**Guide-Rite™**  
Fastener



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119957	<b>BG-6-F1 *</b>	3/8"	1/16" - 5/32"	100
78101119960	<b>BG-6-F2 *</b>	3/8"	5/32" - 1/4"	100
78101119958	<b>BG-8-12-F1</b>	1/2" & 3/8"	1/16" - 5/32"	100
78101119961	<b>BG-8-12-F2</b>	1/2" & 3/8"	5/32" - 1/4"	100
78101119958	<b>BG-16-F1</b>	1"	1/16" - 5/32"	100
78101119961	<b>BG-16-F2</b>	1"	5/32" - 1/4"	100

Patent #4958792

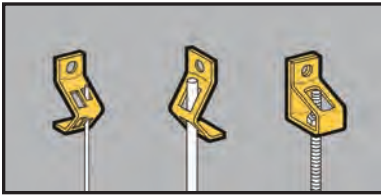
\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :  
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



UPC/Part Number	Catalog Number	Wire Size	Flange Thickness	Box Qty.
78101103556	<b>BRC3-F1</b>	14/2 & 12/2 With Ground	1/16" - 5/32"	100
78101103557	<b>BRC3-F2</b>	14/2 & 12/2 With Ground	5/32" - 1/4"	100

Note: These products are designed for positioning only. No load rating.

# Hangers

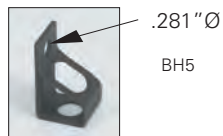
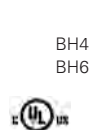


- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8" threaded rod.
- Static Load Capacity: 160 Lbs.

## Components



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118800	<b>BH1</b>	#8 Wire or 1/4" Plain Rod	100
78101118805	<b>BH2</b>	For 3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118815	<b>BH4</b>	For 1/4" Threaded Rod	100
78101118825	<b>BH6</b>	For 3/8" Threaded Rod	100
78101118820	<b>BH5 *</b>	For 1/4" & 3/8" Threaded Rod	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.

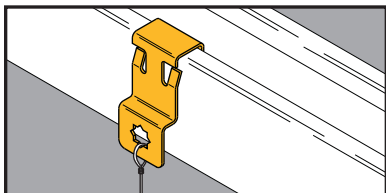


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118830	<b>BH7</b>	Angle Bracket With .281"Ø Holes	100
78101118835	<b>BH7-6</b>	Angle Bracket With .281"Ø & .406"Ø Holes	100
78101118840	<b>BH8</b>	Offset Bracket With .281"Ø Holes	100
78101118845	<b>BH8-6</b>	Offset Bracket With .281"Ø & .406"Ø Holes	100

Read safety/installation instruction sheets in packages before use.



# Hangers



- The BSC4 Series provides a simple, snap-on attachment to strut, eliminating the need for tools and/or drilling during installation.

## Strut Fasteners



- Ideal for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.

UPC/Part Number	Catalog Number	Description	Load Capacity	Box Qty.
78205146573	<b>BSC4</b>	Strut Clip	60 lbs.	100



UPC/Part Number	Catalog Number	Rod Size	Load Capacity	Box Qty.
78205146581	<b>BH4-SC4</b>	1/4"-20	60 lbs.	100
78205146582	<b>BH6-SC4</b>	3/8"-16	60 lbs.	100

# Hangers



BG-SC4



BP-SC4



BL14-SC4

UPC/Part Number	Catalog Number	Conduit Size	Load Capacity	Box Qty.
78205146577	<b>BG6-SC4</b>	MC/AC & 3/8"	25 lbs.	100
78205146578	<b>BG812-SC4</b>	1/2" & 3/4"	25 lbs.	100
78205146579	<b>BP8-SC4</b>	1/2"	15 lbs.	100
78205146580	<b>BP12-SC4</b>	3/4"	15 lbs.	100
78205146588	<b>BL1400-SC4</b>	1/2"	60 lbs.	100
78205146589	<b>BL1410-SC4</b>	3/4"	60 lbs.	100
78205146590	<b>BL1420-SC4</b>	1"	60 lbs.	100



BX4M-SC4

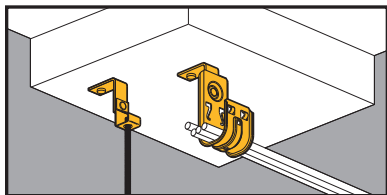


BRC5-SC4

UPC/Part Number	Catalog Number	Cable Size Runs	Load Capacity	Box Qty.
78205146584	<b>BX4M-SC4</b>	14/2 - 10/3 up to 2 runs	–	100
78205146585	<b>BRC51-SC4</b>	.430" to .560" up to 4 runs	50 lbs.	100
78205146586	<b>BRC52-SC4</b>	.430" to .560" up to 9 runs	50 lbs.	100
78205146587	<b>BRC53-SC4</b>	.560" to .690" up to 7 runs	50 lbs.	100

Read safety/installation instruction sheets in packages before use.

# Hangers



## Drive Pin Fasteners



BPNA



BCH21-PNA  
BCH32-PNA



BH-PNA



BH1-PNA  
BH2-PNA

- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1<sup>1</sup>/<sub>4</sub>" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.

UPC/Part Number	Catalog Number	Description	Box Qty.
78205125583	<b>BPNA</b>	Angle Bracket	100
78205128090	<b>BCH12-PNA</b>	3/4" Cable Hook	100
78205125584	<b>BCH21-PNA</b>	1 <sup>5</sup> / <sub>16</sub> " Cable Hook	50
78205125586	<b>BCH32-PNA</b>	2" Cable Hook	50
78205125588	<b>BCH64-PNA</b>	4" Cable Hook	25
78205125611	<b>BH-PNA</b>	Strap Hanger	100
78205125593	<b>BH1-PNA</b>	#8 Wire or 1/4" Plain Rod	100
78205125596	<b>BH2-PNA</b>	3/8" Plain Rod	100

Read safety/installation instruction sheets in packages before use.

## Drive Pin Fasteners



BH\_PNA



BG\_PNA



BP\_PNA



BL14\_PNA



BX4\_PNA



BX4M\_PNA

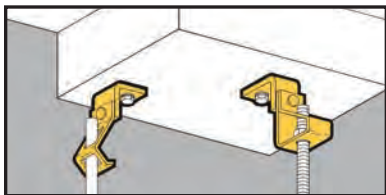
UPC/Part Number	Catalog Number	Description	Box Qty.
78205125604	<b>BH4-PNA *</b>	1/4" Threaded Rod	100
78205125606	<b>BH6-PNA *</b>	3/8" Threaded Rod Cable Hook	100
78205125605	<b>BH5-PNA **</b>	1/4" or 3/8" Threaded Rod	100
78205125613	<b>BG6-PNA ***</b>	3/8" Conduit	100
78205125615	<b>BG8-12-PNA</b>	1/2" & 3/4" Conduit	100
78205125616	<b>BG16-PNA</b>	1" Conduit	100
78205125623	<b>BP8-PNA</b>	1/2" EMT	100
78205125624	<b>BP12-PNA</b>	3/4" EMT	100
78205125630	<b>BP16-PNA</b>	1" EMT	100
78205125620	<b>BL1400-PNA</b>	1/2" Conduit	100
78205125621	<b>BL1410-PNA</b>	3/4" Conduit	100
78205125622	<b>BL1420-PNA</b>	1" Conduit	100
78205125590	<b>BX4-PNA</b>	Single Run MC, AC or FMC	100
78205125591	<b>BX4M-PNA</b>	Double Run MC, AC or FMC	100

\* With threaded impressions. \*\* Nuts required.

\*\*\* BG-6 will accept the following range  $\varnothing.420 - \varnothing.675$ :

14/2 thru 10/4 MC/AC cable and  $5/16$  or  $3/8$  flexible conduit

# Hangers



## Angle Bracket Fasteners

- Suspend plain or threaded rod and drop wire from ceilings, walls, concrete beams, joists and laminated wood beams.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.



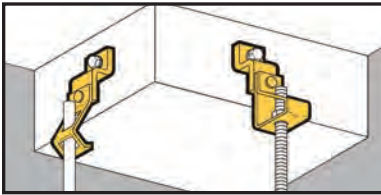
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118930	<b>BH1-H7</b>	#8 Wire or 1/4" Plain Rod	100
78101118975	<b>BH2-H7</b>	For 3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119010	<b>BH4-H7</b>	1/4"-20	100
78101119090	<b>BH6-H7</b>	3/8"-16	100
78101119050	<b>BH5-H7 *</b>	1/4"-20 or 3/8"-16	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

## Offset Bracket Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118935	<b>BH1-H8</b>	#8 Wire or 1/4" Plain Rod	100
78101118975	<b>BH2-H8</b>	3/8" Plain Rod	100

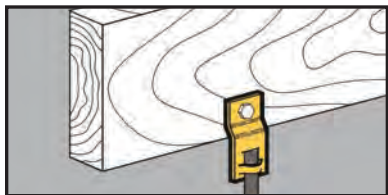


UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119015	<b>BH4-H8</b>	1/4"-20	100
78101119095	<b>BH6-H8</b>	3/8"-16	100
78101119055	<b>BH5-H8 *</b>	1/4"-20 or 3/8"-16	100

\* Nuts required.

Note: BH4 & BH6 have thread impressions.

# Hangers



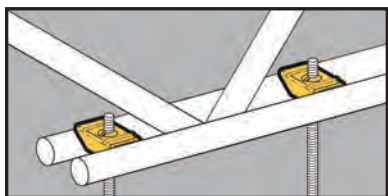
- Suspend 3/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

## Threaded Rod Hangers

.406" Ø



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101661	B3223-3/8	Offset Eye Socket	100



- Allows centering on all open web joists with round bottom chords.
- Static Load Capacity:  
BH11 = 200 Lbs.  
BH12 = 100 Lbs.

## Wedge Hangers



BH11

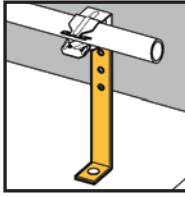
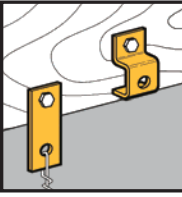


BH12



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118860	BH11	With 3/8" Clearance Hole	100
78101118865	BH12	With 1/4"-20 Thread Impression	100

# Hangers



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



BD4



BA28B

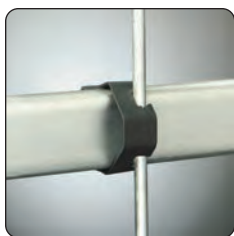
UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	<b>BD2</b>	Flat Bracket	100
78101118280	<b>BD4</b>	Offset Bracket	100
78101101449	<b>BA28B</b>	Angle Bracket	100

Read safety/installation instruction sheets in packages before use.

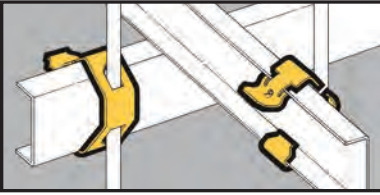


# Lathers Channel

Lathers Channel



# Lathers Channel



## Rod & Wire Fasteners

- For fastening standard lathers channels to wires and plain rods.
- Fits 1/2" through 5/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.



BL-24-2



Side Mounts

BL-24-4

UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119882	<b>BL-24-2</b>	1 1/2"	#8 Wire	100
78101119883	<b>BL-24-4</b>	1 1/2"	1/4"	100
78101119885	<b>BL-32-4</b>	2"	1/4"	100



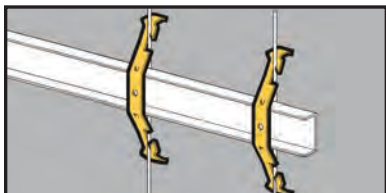
Center Mount



UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119884	<b>BL-24-4C</b>	1 1/2"	1/4" Rod	100

Read safety/installation instruction sheets in packages before use.

# Lathers Channel

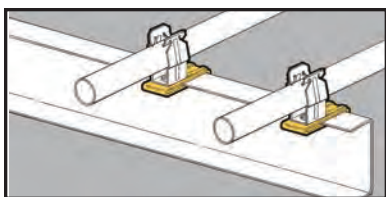


- For fastening standard 1 1/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits 9/16" thru 5/8" channel flange widths.
- Static Load Capacity: 100 Lbs.

## Rod & Wire Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119880	BL1	Channel to Rod & Wire	100



- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with 1/4"-20 screw (furnished).
- Fits channel flange widths up to 5/8".

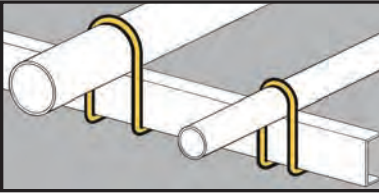
## Flange Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119881	BL2	Flange Fastener with Screw	100

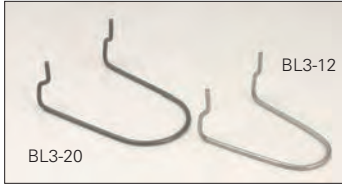
Note: This product is designed for positioning only. No load rating.

# Lathers Channel



- Fastens EMT to 1 1/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- Finish: Zinc Plated

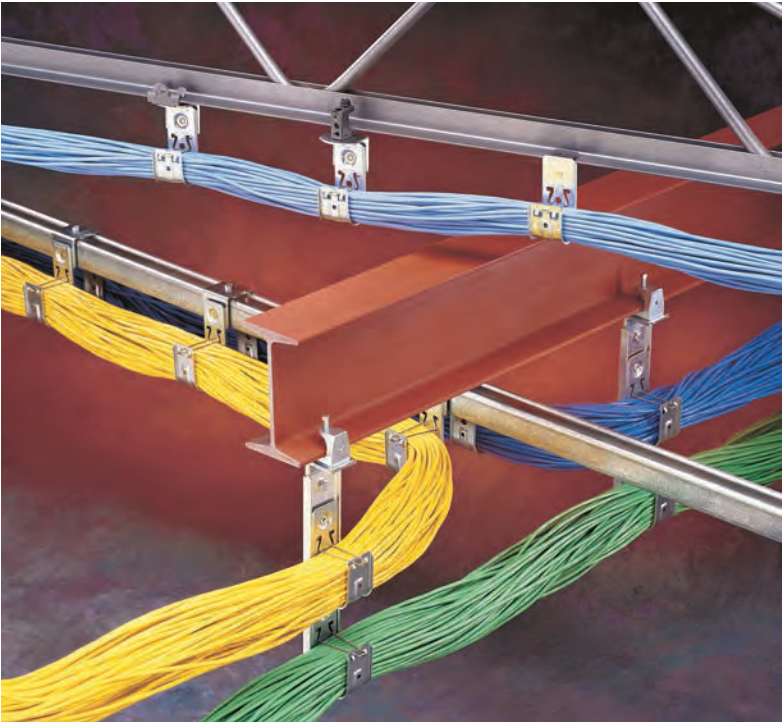
## Conduit Fasteners



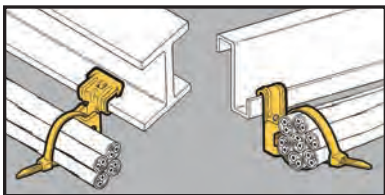
UPC/Part Number	Catalog Number	EMT Conduit Size	Box Qty.
78101119902	<b>BL3-8</b>	1/2"	100
78101119903	<b>BL3-12</b>	3/4"	100
78101119904	<b>BL3-16</b>	1"	100
78101119905	<b>BL3-20</b>	1 1/4"	100

# Communication & Low Voltage

Communication & Low Voltage



# Communication & Low Voltage

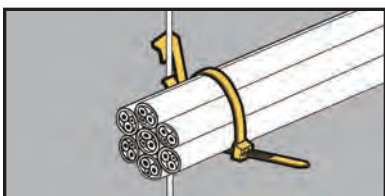


- Supports cable ties up to  $\frac{9}{32}$ " wide from flanges  $\frac{1}{16}$ " to  $\frac{3}{4}$ " thick.
- 8" cable tie included.
- Simply installed with a hammer.

## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119970	<b>BE-2-4-CT2</b>	$\frac{1}{8}$ " to $\frac{1}{4}$ "	100
78101119971	<b>BE-5-8-CT2</b>	$\frac{5}{16}$ " to $\frac{1}{2}$ "	100
78101119972	<b>BE-9-12-CT2</b>	$\frac{9}{16}$ " to $\frac{3}{4}$ "	100
78101119968	<b>BF1-CT2</b>	$\frac{1}{16}$ " to $\frac{5}{32}$ "	100
78101119969	<b>BF2-CT2</b>	$\frac{5}{32}$ " to $\frac{1}{4}$ "	100



- Supports cable ties up to  $\frac{9}{32}$ " wide from drop wires.
- 8" cable tie included.

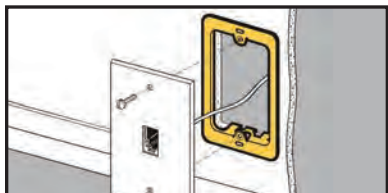
## Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102866	<b>BW2-CT2</b>	#12 wire thru $\frac{1}{4}$ " plain or threaded rod	100
78101195603	<b>BW6-CT2</b>	$\frac{3}{8}$ " plain or threaded rod	100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora®\* style cover plates.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

## Cover Plate Mounting Brackets



BB10



BB10-2



BB10-3



BB10-4



BB20

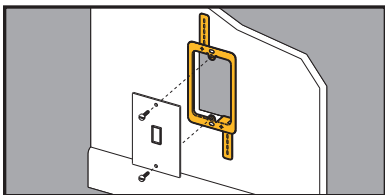
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118150	<b>BB10</b>	Single Gang Bracket	50
78101118152	<b>BB10-2</b>	Mounts Two (2) Single Plates	10
78101119878	<b>BB10-3</b>	Mounts Three (3) Single Plates	10
78101119879	<b>BB10-4</b>	Mounts Four (4) Single Plates	10
78101118130	<b>BB20</b>	Double Gang Bracket	10

Patent # Re.33305

\* Decora® is a registered trademark of Leviton Corporation.

Read safety/installation instruction sheets in packages before use.  
These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

## Cover Plate Mounting Bracket

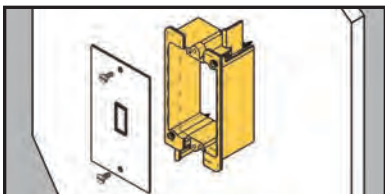


BB10L



BB20L

UPC/Part Number	Catalog Number	Description	Box Qty.
78101190895	BB10L	Single Gang Bracket	50
78101190896	BB20L	Double Gang Bracket	50



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- Maximum wall thickness: 3/4"

## Plastic Cover Plate Mounting Bracket

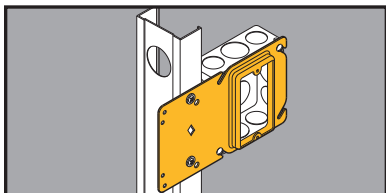


UPC/Part Number	Catalog Number	Description	Box Qty.
78205139235	BB10P	Single Gang Bracket	50

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



# Communication & Low Voltage



- Uni-Mount offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- Finish: Pre-galvanized

## Uni-Mount Box Support/Cover Plate Mounting Brackets



Single Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	<b>BB40-08</b>	1/2" Raise	50
78205122771	<b>BB40-10</b>	5/8" Raise	50
78205122772	<b>BB40-12</b>	3/4" Raise	50

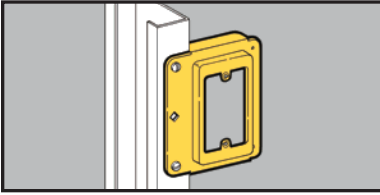


Double Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122773	<b>BB45-08</b>	1/2" Raise	50
78205122774	<b>BB45-10</b>	5/8" Raise	50
78205122775	<b>BB45-12</b>	3/4" Raise	50

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage

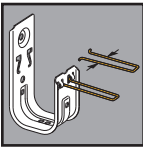


## Cover Plate Mounting Bracket



- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	<b>BB15</b>	Single Gang Stud Bracket	25

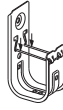


## Replacement Cable Retainer Clips

- Cable retainer clips are included with all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- Finish: Pre-galvanized



Retainer in open position



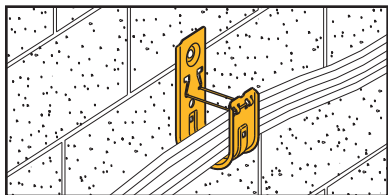
Push retainer down to lock

UPC/Part Number	Catalog Number	Cable Retainer For Hook Size	Box Qty.
78101104847	<b>BCHR21</b>	1/2" Raise	50
78101104848	<b>BCHR32</b>	5/8" Raise	50
78101104849	<b>BCHR64</b>	3/4" Raise	50

Patent #5961081

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

# Communication & Low Voltage



- Supports Cat. 5/5e/6/6A fiber optic, innerduct and low voltage cabling requirements.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-Galvanized

## Cable Hooks

Communication & Low Voltage

BCH12



Open



Closed



BCH21



BCH32



BCH64



UPC/Part Number	Catalog Number	Hook Size	Capacity Up To	Box Qty.
78205128060	<b>BCH12</b>	3/4"	16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6	50
78101104713	<b>BCH21</b>	1 <sup>5</sup> / <sub>16</sub> "	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78101104713	<b>BCH32</b>	2"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78101104713	<b>BCH64</b>	4"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

Patent #5961081

**For special finish colors see page 156**

(See pages 239-240 for technical data.)



## Painted Cable Hooks

- Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.
- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW  
Brown - BR  
Computer White - CW  
Equipment Blue - BL  
Flat Black - FB

Green - GR  
Orange - OR  
Regal Red - RR  
Safety Yellow - YL  
Telcom Gray - TG

Part # Example:

Painted Cable Hook Part Number - BCH32BW

Painted Cable Hook Assembly - BCH32BW-U24



## J-Hook Color ID Clip

- Color-coded clips allow for content designation without inventorying various colored hardware.
- Easy to designate pathways to prevent crossover.
- Order separately and field install.
- Can be snapped on J-Hook after it has been installed.
- Manufactured from Underwriters Laboratories (UL) Listed material for plenum spaces.
- Suitable for 3/4", 1<sup>5</sup>/<sub>16</sub>", 2", and 4" J-Hook sizes.
- Available in six (6) colors:  
Blue (BL), White (WH), Gray (GY), Orange (OR), Red (RD), and Yellow (YW).

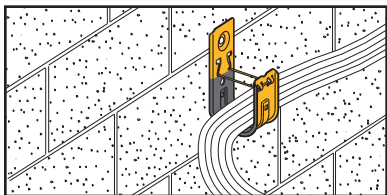
Part # Example:

Blue Colored ID Clip Part Number

BCHID-BL12 - blue clip for BCH12 J-Hook

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



- Xylan® coating provides smooth frictionless surface for cable pulling.
- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon®.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.

## X-Hook Low Friction Cable Hooks



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



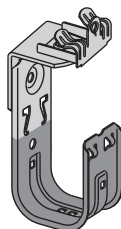
Cable rollers are too expensive and require installation and removal.

UPC/Part Number	Catalog Number	Hook Size	Capacity	Box Qty.
78205129940	<b>BCH21X</b>	1 <sup>5</sup> / <sub>16</sub> "	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78205129941	<b>BCH32X</b>	2"	80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78205129942	<b>BCH64X</b>	4"	300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

Note: For cable hook assemblies with X-Hooks add an X to the part number.

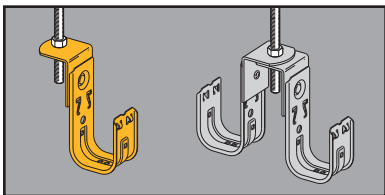
Example: BCH32X-U-2-4

(See pages 239-240 for technical data.)



Xylan® is a registered trademark used by Whitford Corporation  
Teflon® is a registered trademark used by DuPont®

# Communication & Low Voltage

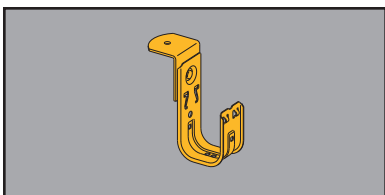


## Cable To ATR Fasteners



- .505" diameter hole designed to support cable from 3/8" or 1/2" threaded rod.
- Allows back-to-back and multi-tier installations.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78101104725	<b>BCH21-AB</b>	15/16"	.505" Diameter	50
78101104729	<b>BCH32-AB</b>	2"	.505" Diameter	50
78101104732	<b>BCH64-AB</b>	4"	.505" Diameter	25



## Angle Bracket Cable Fasteners



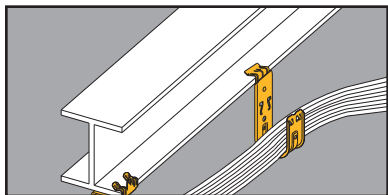
- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78205128089	<b>BCH12-RB</b>	3/4"	.265" Diameter	50
78101104735	<b>BCH21-RB</b>	15/16"	.265" Diameter	50
78101104738	<b>BCH32-RB</b>	2"	.265" Diameter	50
78101104742	<b>BCH64-RB</b>	4"	.265" Diameter	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

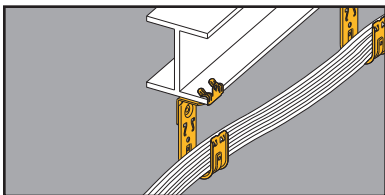
## Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128067	<b>BCH12-E-2-4</b>	3/4"	1/8" to 1/4"	50
78205128072	<b>BCH12-E-5-8</b>	3/4"	5/16" to 1/2"	50
78205128073	<b>BCH12-E-9-12</b>	3/4"	9/16" to 3/4"	50
78101104803	<b>BCH21-E-2-4</b>	1 5/16"	1/8" to 1/4"	50
78101104805	<b>BCH21-E-5-8</b>	1 5/16"	5/16" to 1/2"	50
78101104807	<b>BCH21-E-9-12</b>	1 5/16"	9/16" to 3/4"	50
78101104825	<b>BCH32-E-2-4</b>	2"	1/8" to 1/4"	50
78101104827	<b>BCH32-E-5-8</b>	2"	5/16" to 1/2"	50
78101104829	<b>BCH32-E-9-12</b>	2"	9/16" to 3/4"	50

(See pages 239-240 for technical data.)

# Communication & Low Voltage



## Cable To Beam Fasteners

- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



Allows  
360°  
Rotation



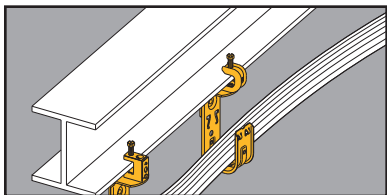
UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128062	<b>BCH12-U-2-4</b>	3/4"	1/8" to 1/4"	50
78205128064	<b>BCH12-U-5-8</b>	3/4"	5/16" to 1/2"	50
78205128066	<b>BCH12-U-9-12</b>	3/4"	9/16" to 3/4"	50
78101104809	<b>BCH21-U-2-4</b>	1 5/16"	1/8" to 1/4"	50
78101104811	<b>BCH21-U-5-8</b>	1 5/16"	5/16" to 1/2"	50
78101104813	<b>BCH21-U-9-12</b>	1 5/16"	9/16" to 3/4"	50
78101104831	<b>BCH32-U-2-4</b>	2"	1/8" to 1/4"	50
78101104833	<b>BCH32-U-5-8</b>	2"	5/16" to 1/2"	50
78101104835	<b>BCH32-U-9-12</b>	2"	9/16" to 3/4"	50
78101104864	<b>BCH64-U-2-4</b>	4"	1/8" to 1/4"	25
78101104865	<b>BCH64-U-5-8</b>	4"	5/16" to 1/2"	25
78101104866	<b>BCH64-U-9-12</b>	4"	9/16" to 3/4"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



# Communication & Low Voltage

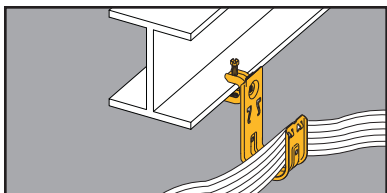


## Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128077	<b>BCH12-C442</b>	3/4"	1/8" to 5/8"	50
78101104823	<b>BCH21-C442</b>	1 5/16"	1/8" to 5/8"	50
78101104845	<b>BCH32-C442</b>	2"	1/8" to 5/8"	50
78101104868	<b>BCH64-C442</b>	4"	1/8" to 5/8"	25



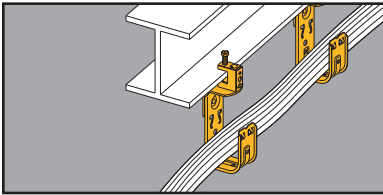
## Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141850	<b>BCH12-C442A</b>	3/4"	1/8" to 5/8"	50
78205141851	<b>BCH21-C442A</b>	1 5/16"	1/8" to 5/8"	50
78205141852	<b>BCH32-C442A</b>	2"	1/8" to 5/8"	50
78205141853	<b>BCH64-C442A</b>	4"	1/8" to 5/8"	25

(See pages 239-240 for technical data.)

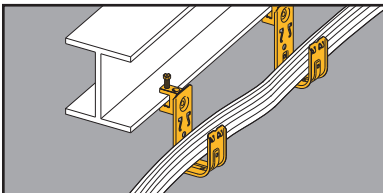


## Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128074	<b>BCH12-C2</b>	3/4"	thru 1/2"	50
78101104821	<b>BCH21-C2</b>	15/16"	thru 1/2"	50
78101104843	<b>BCH32-C2</b>	2"	thru 1/2"	50
78101104867	<b>BCH64-C2</b>	4"	thru 1/2"	25



## Cable To Beam Fasteners

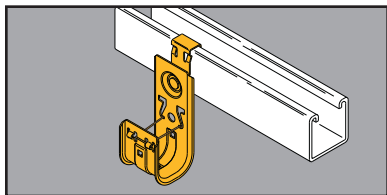


- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141303	<b>BCH12-C1</b>	3/4"	thru 1/2"	50
78101195578	<b>BCH21-C1</b>	15/16"	thru 1/2"	50
78101195560	<b>BCH32-C1</b>	2"	thru 1/2"	50
78205141304	<b>BCH64-C1</b>	4"	thru 1/2"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



## Cable Hook To Strut Attachment

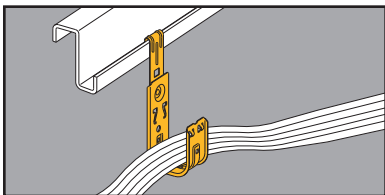
- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Cable retainer clips are included with hooks.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Cable Hook Size	Box Qty.
78205146574	<b>BCH12-SC4</b>	3/4"	50
78205146575	<b>BCH21-SC4</b>	15/16"	50
78205146576	<b>BCH32-SC4</b>	2"	50
78205146583	<b>BCH64-SC4</b>	4"	50

(See pages 239-240 for technical data.)

# Communication & Low Voltage

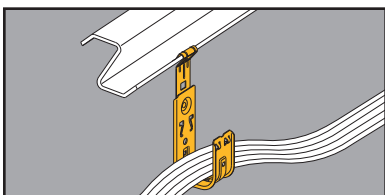


- Supports cable from vertical flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

## Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128078	<b>BCH12-F3</b>	3/4"	1/16" to 1/4"	50
78101104815	<b>BCH21-F3</b>	15/16"	1/16" to 1/4"	50
78101104837	<b>BCH32-F3</b>	2"	1/16" to 1/4"	50
78101104869	<b>BCH64-F3</b>	4"	1/16" to 1/4"	25



- Supports cable from angled flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

## Cable To Flange Fasteners

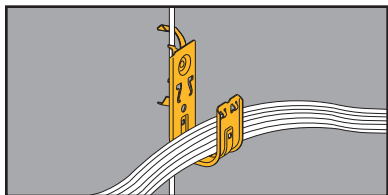


UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128079	<b>BCH12-F4</b>	3/4"	1/16" to 1/4"	50
78101104817	<b>BCH21-F4</b>	15/16"	1/16" to 1/4"	50
78101104839	<b>BCH32-F4</b>	2"	1/16" to 1/4"	50
78101104870	<b>BCH64-F4</b>	4"	1/16" to 1/4"	25

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



## Cable To Wire and Rod Fasteners

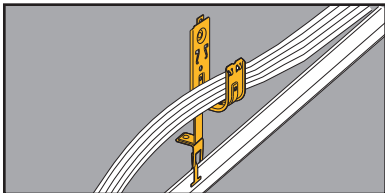
Communication & Low Voltage



- Supports cable from #12 wire thru 3/8" threaded rod.
- Cable retainer clips are included with hooks.
- W2 series attaches to #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78205146573	<b>BCH12-W2</b>	3/4"	50
78101104819	<b>BCH21-W2</b>	15/16"	50
78101104841	<b>BCH32-W2</b>	2"	50
78205128082	<b>BCH12-W6</b>	3/4"	50
78101195567	<b>BCH21-W6</b>	15/16"	50
78101195569	<b>BCH32-W6</b>	2"	50

(See pages 239-240 for technical data.)



## Cable To T-Bar Fasteners

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

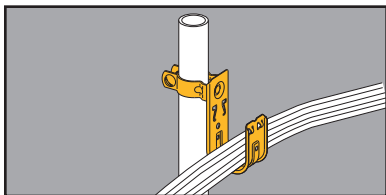


UPC/Part Number	Catalog Number	Description	Box Qty.
78205128083	BCH12-A28	3/4"	50
78101104857	BCH21-A28	15/16"	50
78101104858	BCH32-A28	2"	50

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage

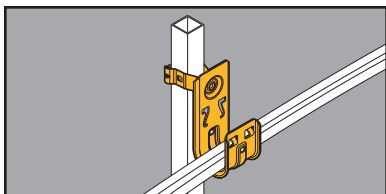


## Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128085	<b>BCH12-L1410</b>	3/4"	1" O.D.	50
78101104851	<b>BCH21-L1410</b>	15/16"	1" O.D.	50
78101104855	<b>BCH32-L1410</b>	2"	1" O.D.	50
78101104871	<b>BCH64-L1410</b>	4"	1" O.D.	25



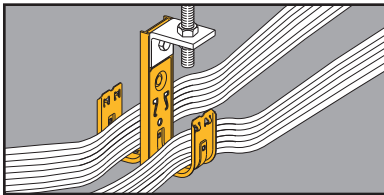
## Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128086	<b>BCH12-G-8-12</b>	3/4"	1" Square	50
78101172487	<b>BCH21-G-8-12</b>	15/16"	1" Square	50
78101172489	<b>BCH32-G-8-12</b>	2"	1" Square	50
78101172491	<b>BCH64-G-8-12</b>	4"	1" Square	25

(See pages 239-240 for technical data.)



## Double-Sided Multi-Tier Cable Fasteners



1D



2D

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- Shown with optional BCHK2 kit.
- Cable retainer clips are included with hooks.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104758	<b>BCH21-1D</b>	1 <sup>5</sup> / <sub>16</sub> "	1 Tier, 2-Sided, 5 <sup>1</sup> / <sub>2</sub> " High	20
78101104762	<b>BCH32-1D</b>	2"	1 Tier, 2-Sided, 6 <sup>3</sup> / <sub>16</sub> " High	25
78101104874	<b>BCH64-1D</b>	4"	1 Tier, 2-Sided, 9" High	10
78101104766	<b>BCH21-2D</b>	1 <sup>5</sup> / <sub>16</sub> "	1 Tier, 2-Sided, 9 <sup>1</sup> / <sub>4</sub> " High	10
78101104770	<b>BCH32-2D</b>	2"	1 Tier, 2-Sided, 11" High	10
78101104875	<b>BCH64-2D</b>	4"	1 Tier, 2-Sided, 18 <sup>1</sup> / <sub>4</sub> " High	10

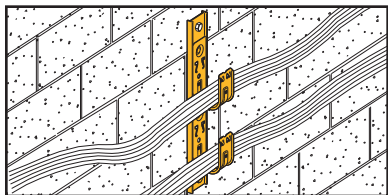
Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



# Communication & Low Voltage



- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Cable retainer clips are included with hooks.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)

## Single-Sided Multi-Tier Cable Fasteners



2S



3S



UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104773	<b>BCH21-2S</b>	1 <sup>5</sup> / <sub>16</sub> "	2 Tier, 1-Sided, 11" Overall Height	20
78101104776	<b>BCH32-2S</b>	2"	2 Tier, 1-Sided, 12 <sup>3</sup> / <sub>4</sub> " Overall Height	25
78101195300	<b>BCH64-2S</b>	4"	2 Tier, 1-Sided, 19 <sup>5</sup> / <sub>16</sub> " Overall Height	10
78101104779	<b>BCH21-3S</b>	1 <sup>5</sup> / <sub>16</sub> "	3 Tier, 1-Sided, 14 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101104782	<b>BCH32-3S</b>	2"	3 Tier, 1-Sided, 17 <sup>1</sup> / <sub>2</sub> " Overall Height	10
78101195303	<b>BCH64-3S</b>	4"	3 Tier, 1-Sided, 28 <sup>1</sup> / <sub>16</sub> " Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)

# Communication & Low Voltage



4S



5S



6S



Communication & Low Voltage

UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104785	<b>BCH21-4S</b>	1 <sup>5</sup> / <sub>16</sub> "	4 Tier, 1-Sided, 18 <sup>1</sup> / <sub>2</sub> " Overall Height	10
78101104788	<b>BCH32-4S</b>	2"	4 Tier, 1-Sided, 21 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101197872	<b>BCH64-4S</b>	4"	4 Tier, 1-Sided, 36 <sup>13</sup> / <sub>16</sub> " Overall Height	10
78101104791	<b>BCH21-5S</b>	1 <sup>5</sup> / <sub>16</sub> "	5 Tier, 1-Sided, 21 <sup>3</sup> / <sub>4</sub> " Overall Height	10
78101104794	<b>BCH32-5S</b>	2"	5 Tier, 1-Sided, 27" Overall Height	10
78101104797	<b>BCH21-6S</b>	1 <sup>5</sup> / <sub>16</sub> "	6 Tier, 1-Sided, 26" Overall Height	10
78101104800	<b>BCH32-6S</b>	2"	6 Tier, 1-Sided, 31 <sup>3</sup> / <sub>4</sub> " Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



Shown with  
BRC5  
Brackets



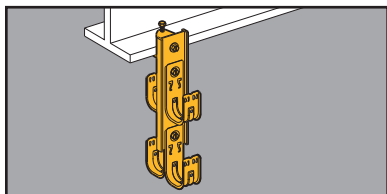
Shown with  
Cable  
Hooks

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from  $\frac{3}{16}$ " ,  $\frac{1}{4}$ " ,  $\frac{5}{16}$ " or  $\frac{3}{8}$ " rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- Load Capacity: 180 lbs.

## Multi-Tier Support Bar



UPC/Part Number	Catalog Number	Description	Box Qty.
78205143819	<b>BCH-HBA</b>	Multi-Tier Support Bar	40



- Support bars furnished in 6063-T6 aluminum.



## Multi-Tier Cable Hook Kits



UPC/Part Number	Catalog Number	Description	Box Qty.
78101199572	<b>BCH-HB21</b>	Support Bar for BCH21 and BCH32 $8\frac{1}{4}$ " long with $.281\text{\O}$ holes	20
78101199574	<b>BCH-HB64</b>	Support Bar for BCH64 $13\frac{5}{16}$ " long with $.281\text{\O}$ holes	20

(See pages 239-240 for technical data.)

## Multi-Tier Attachment Kits

- BCHK1 includes:  
Beam clamp (B444-1/4)  
and 1/4"-20 x 1/2"  
hex head cap screw



BCHK1

- BCHK2 includes:  
Angle bracket (.320"Ø  
and .390"Ø holes) and  
1/4"-20 x 1/2"  
hex head cap screw



BCHK2

- BCHK3 includes:  
1 each BCHK1 Kit and  
BCHK2 Kit

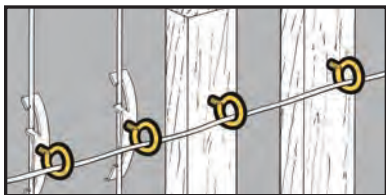


BCHK3

UPC/Part Number	Catalog Number	Kit Description	Flange Thickness	Box Qty.
78101104872	<b>BCHK1</b>	Beam Clamp	Thru 1/2"	10
78101104860	<b>BCHK2</b>	Angle Bracket	--	10
78101104873	<b>BCHK3</b>	Beam Clamp with Angle Bracket (swivels 360°)	Thru 1/2"	10

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage



- Supports low voltage communication cables from beams or rods when used with other fasteners.
- *Ultimate Static Load Capacity:* 50 Lbs.
- Finish: Zinc Plated

## Threaded Bridle Rings



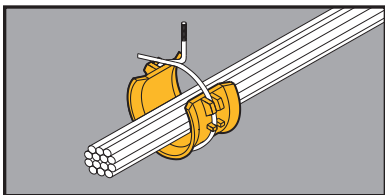
UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119550	<b>BR-8-T</b>	1/2"	#10-24 x 9/16"	100
78101119555	<b>BR-12-T</b>	3/4"	#10-24 x 9/16"	100
78101119560	<b>BR-20-T</b>	1 1/4"	#10-24 x 9/16"	100
78101119570	<b>BR-32-T</b>	2"	#10-24 x 9/16"	100
78101119565	<b>BR-20-4T</b>	1 1/4"	1/4"-20 x 9/16"	100
78101119575	<b>BR-32-4T</b>	2"	1/4"-20 x 9/16"	100
78101119889	<b>BR-64-4T</b>	4"	1/4"-20 x 9/16"	50



Lag Screw  
for Wood  
Beams

UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119875	<b>BR-16-3W</b>	1"	#10 x 9/16"	100
78101119886	<b>BR-24-4W</b>	1 1/2"	1/4" x 27/32"	100
78101119876	<b>BR-32-4W</b>	2"	1/4" x 7/8"	100

# Communication & Low Voltage



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2" saddle is available separately. Can be easily attached before or after cable installation.

## Bridle Ring Saddles



BRS-32A

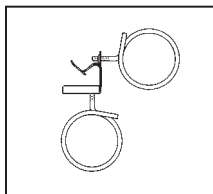


BRS-64A

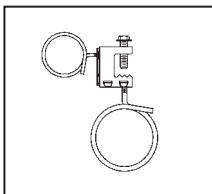
BRS-32

UPC/Part Number	Catalog Number	Thread Size x Thread Length/Description	Box Qty.
78205122761	<b>BRS-32A</b>	1/4"-20 x 7/8" 2" Ring Assembly	50
78205122762	<b>BRS-64A</b>	1/4"-20 x 1" 4" Ring Assembly	25
78205122759	<b>BRS-32</b>	2" Saddle Only	50

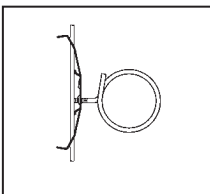
Also available for use with the following B-Line Fasteners.



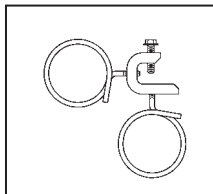
BU-9-12



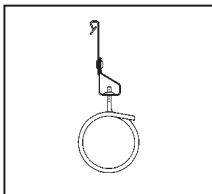
BC1



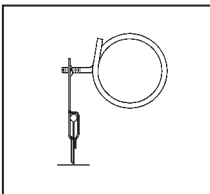
BW2



BC442



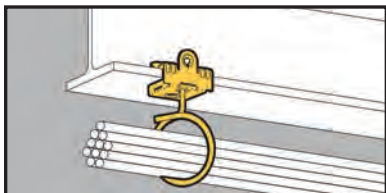
BH4-F3



BA5-4T

Read safety/installation instruction sheets in packages before use.

# Communication & Low Voltage

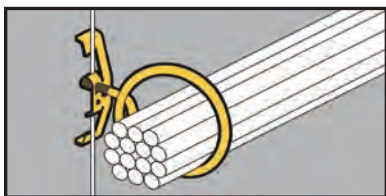


- Supports low voltage communication cables from beam flanges 1/8" to 3/4" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

## Bridle Ring/Beam Fastener Assy.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102921	<b>BR-32-4T-U-2-4</b>	1/8" to 1/4"	50
78101102923	<b>BR-32-4T-U-5-8</b>	5/16" to 1/2"	50
78101102924	<b>BR-32-4T-U-9-12</b>	9/16" to 3/4"	50



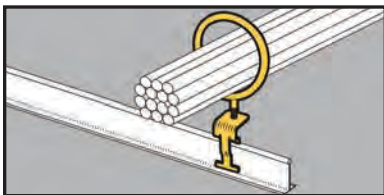
- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

## Bridle Ring/Rod & Wire Fastener Assy.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102929	<b>BR-32-4T-W2</b>	#12 Wire Thru 1/4" Plain or Threaded Rod	50

# Communication & Low Voltage

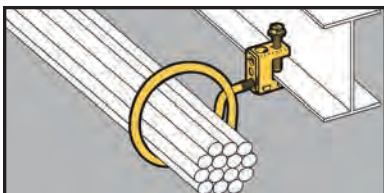


## Bridle Ring/T-Bar Fastener Assembly

- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- For positioning only - No Load Rating



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102934	BR-32-4T-A6	2" Ring Size	50



## Bridle Ring/Beam Fastener Assembly

- Supports low voltage communication cables from beam flanges thru 1/2" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102937	BR-32-4T-C1	2" Ring Size	50

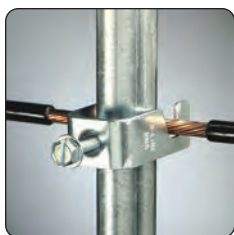
Read safety/installation instruction sheets in packages before use.

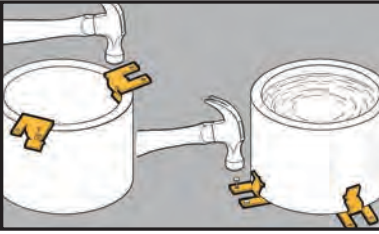


# Accessories



Accessories



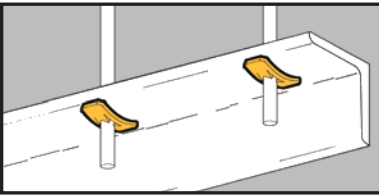


## Pipe Sleeve Fasteners



- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or  $\frac{5}{16}$ " and smaller wall thickness.

UPC/Part Number	Catalog Number	Sleeve Diameter	Wall Thickness	Box Qty.
78101118285	<b>BD40</b>	All Dia.	$\frac{5}{16}$ " & Under	100
78101118285	<b>BD40</b>	2" to 6"	Schedule 40 Pipe	100



## Accessory Nuts



BN-2, BN-4,  
BN-6  
Push Nuts



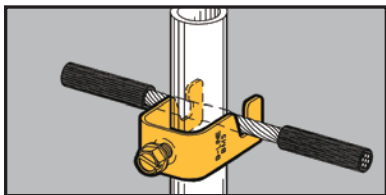
BN1  
"U" Nuts With  
Thread Impression

- Push Nuts designed for use with plain rod.
- "U" Nuts provide  $\frac{1}{4}$ "-20 thread impression for unthreaded hole.
- No installation tools required.

UPC/Part Number	Catalog Number	Rod/Wire Size	Static Load Capacity	Box Qty.
78101110115	<b>BN-2</b>	#8 Wire	100 lbs. thru $\frac{3}{8}$ " hole	100
78101119120	<b>BN-4</b>	$\frac{1}{4}$ " Plain Rod	100 lbs. thru $\frac{3}{8}$ " hole	100
78101119125	<b>BN-6</b>	$\frac{3}{8}$ " Plain Rod	200 lbs. thru $\frac{1}{2}$ " hole	100
78101119110	<b>BN1</b>	$\frac{1}{4}$ " Threaded Rod	50 lbs. on $\frac{9}{32}$ " hole	100

Read safety/installation instruction sheets in packages before use.

# Accessories



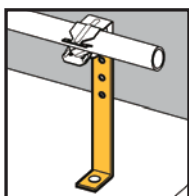
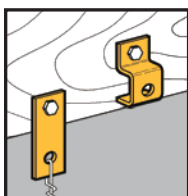
- Attaches signal reference grid wire to computer floor posts.
- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits 3/4" to 1" round or square posts.

## Reference Wire Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101659	BM5	Single Reference Grid Wire Fastener	100

Accessories



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



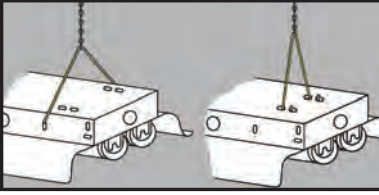
BD4



BA28B

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	BD2	Flat Bracket	100
78101118280	BD4	Offset Bracket	100
78101101449	BA28B	Angle Bracket	50

# Accessories



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

## Light Fixture Hangers

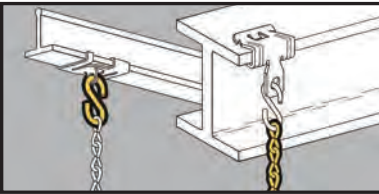


BH15



BH16

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101236	<b>BH15</b>	Side Mount Fluorescent Light Fixture Hanger	100
78101101237	<b>BH16</b>	Top Mount Fluorescent Light Fixture Hanger	100



- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

## Jack Chain & "S" Hooks



BH10

BH9  
BH9-10



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118850	<b>BH9</b>	#12 Single Jack Chain	100 ft.
78101102901	<b>BH9-10</b>	#10 Single Jack Chain	100 ft.
78101118855	<b>BH10</b>	#11 "S" Hook	50

Read safety/installation instruction sheets in packages before use.

# Accessories



## KwikWire™ Clamps

- KwikWire™ system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.



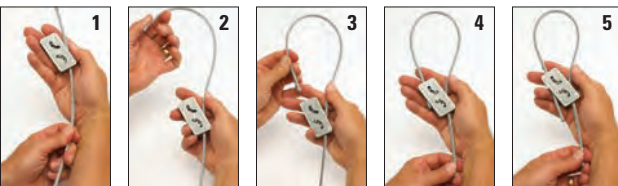
Accessories

UPC/Part Number	Catalog Number	For Use With Wire Rope Diameters	Box Qty.
78205140719	<b>BKC100</b>	1/16" & 3/32"	100
78205140723	<b>BKC200</b>	1/8" & 3/16"	50

### KwikWire Clamp Working Loads\*

Clamp Part No.	Wire Rope Dia.	Lbs. Safety Factor 5
BKC100	1/16"	0-75
	3/32"	25-150
BKC200	3/32"	25-150
	1/8"	25-250
	3/16"	50-640

\* Working loads shown are for hanging vertically.  
 For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart:  
 15° = 96%, 30° = 86%,  
 45° = 70%, 60° = 50%



1. Pass the wire through the KwikWire Clamp
2. Loop wire through/around support
3. Pass wire back through KwikWire Clamp
4. Push wire through clamp leaving 2" to 3" tail, then apply tension on wire
5. To adjust, remove tension and pull wire slightly to disengage teeth, slide adjustment pin in direction shown by arrow to release wire.



7 x 7



7 x 19

## KwikWire™ Wire Rope

UPC/Part Number	Catalog Number	Wire Diameter	Working Load - Lbs.	Spool Qty.
78205140725	<b>BKW063</b> (1)	1/16"	96	500 ft.
78205140727	<b>BKW094</b> (1)	3/32"	184	500 ft.
78205140733	<b>BKW125</b> (1)	1/8"	340	500 ft.
78205140734	<b>BKW188</b> (2)	3/16"	840	250 ft.

(1) Wire rope construction Type 7 x 7

(2) Wire rope construction Type 7 x 19

Uncoated Galvanized Wire



- KwikPak™ includes a supply of kwik-clamps and a spool of wire rope.
- KwikPak are shipped in a specially designed dispenser box to ease field cutting of wire.

## KwikPak™



UPC/Part Number	Catalog Number	Kit Includes	Box Qty.
78205140749	<b>BKP10063</b>	BKC100 (100 pcs.) 1/16" Ø Wire Rope (500 ft.)	1
78205140751	<b>BKP10094</b>	BKC100 (100 pcs.) 3/32" Ø Wire Rope (500 ft.)	1
78205140761	<b>BKP20125</b>	BKC200 (50 pcs.) 1/8" Ø Wire Rope (500 ft.)	1
78205140763	<b>BKP20188</b>	BKC200 (50 pcs.) 3/16" Ø Wire Rope (250 ft.)	1

Read safety/installation instruction sheets in packages before use.

# Accessories



- KwikWire™ hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 182 for wire rope spools.

## KwikWire™ Hanger

UPC/Part Number	Catalog Number	Thread Size	Wire Rope Diameter	Load SF5	Box Qty.
78205158764	<b>BKF100-4</b>	1/4"-20	1/16" 3/32"	45 lbs. 90 lbs.	100
78205158765	<b>BKF100-6</b>	3/8"-16	1/16" 3/32"	45 lbs. 90 lbs.	100



1. Screw KwikWire Hanger into installed hanger support
2. Push wire up through the bottom of KwikWire Hanger
3. Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger
4. To adjust up - pull or push more wire through KwikWire Hanger
5. To adjust down - push up on bottom of KwikWire Hanger and allow wire to feed down
6. When hanging the wire is complete, cut off any excess cable wire if desired

## KwikWire™ Accessories



**BKL Series**

### Loop Termination

- Available as a wire rope with loop termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".



**BKH Series**

### Single & "Y" Style Hook Termination

- Hook designed to accept up to 3/8" diameter wire.
- Available as a wire rope with hook termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles



**BKYH Series**



**BKT Series**

### Single & "Y" Style Toggle Termination

- Available as a wire rope with toggle termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles
- All triple (3) leg styles are non-stock, consult B-Line for lead times



**BKYT Series**



**BKB Series**

### Bolt Loop Termination

- Ideal for use with ARS, ARC, ADI, ACPW, or ACPD anchors.
- Available as a wire rope with bolt termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) styles
- All double (Y) and triple (3) styles are non-stock, consult B-Line for lead times



**BKA Series**

### Angle Bracket Termination

- Available as a wire rope with angle bracket termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".

For additional options, refer to KwikWire Brochure (KWHS)

Read safety/installation instruction sheets in packages before use.



# Accessories



BKCP



B601-62



BKCC

## KwikWire™ Accessories

UPC/Part Number	Catalog Number	Description	Box Qty.
78205140766	<b>BKCP</b>	Air Duct Corner Protector	100
78101156059	<b>B601-62</b>	Air Duct Support	50
78205140297	<b>BKCC *</b>	Wire Rope Cutter	1

*Danger: Never use cutters on energized circuits, wire, or cable.*

*Note: Additional accessories include BE Series (pg. 96), BF Series (pgs. 125 & 129), and BPNA Series (pg. 139)*

*\* Not for use of cutting 3/16" diameter cable.*

### KwikWire™ System Recommendations:

- Do not exceed the safe working load of the products shown in their charts
- All characteristics of KwikWire must be used with wire supplied by B-Line
- Do not use for overhead lifting or hoisting
- Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp
- Do not paint cable near working area of KwikWire Clamp connector
- Do not apply lubricant
- Keep product clean and free of dirt
- Do not use on coated wire rope
- Do not use in chlorinated or caustic atmospheres
- For use in dry locations
- Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying
- For use on vertical applications only

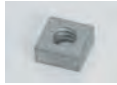
### Application Photos



# Accessories



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101687	<b>SHHMS 1/4x1/2</b>	1/4"-20 x 1/2" Slotted Hex Head Machine Screw	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101142103	<b>MSQN1/4</b>	1/4"-20 Machine Square Nut	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101110675	<b>BWHS-9</b>	Sheet Metal Screw #8 x 9/16"	1000

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104925	<b>BWHS-9D</b>	#8 x 1/2" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.

Read safety/installation instruction sheets in packages before use.

# Anchors



Anchors



## Glossary

Prefix - Description	Screw Dia.	Length	Suffix
ACB - Concrete Anchor Bolt	4 - #4	75 - 3/4"	AN - Acorn Nut
ACPD - Bang-IT	6 - #6	81 - 13/16"	CH - Combo Head
ACPW - Wood-Knocker	8 - #8	87 - 7/8"	F - Flat
ACS - Concrete Screw	10 - #10	100 - 1"	FL - Flanged
ADA - Drive Anchor	12 - 1/8"	118 - 13/18"	H - Hex
ADE - Double Expansion Anchor	18 - 3/16"	125 - 1 1/4"	HN - Hex Nut
ADH - Hollow-Base Drop-IN	25 - 1/4"	150 - 1 1/2"	HS - Hole Saw
ADI - Drop-In	31 - 5/16"	175 - 1 3/4"	K - Kit
ADM - Mini Drop-In	37 - 3/8"	187 - 1 7/8"	M - Mushroom
ADN - Drive Nail	50 - 1/2"	200 - 2"	OH - Oval Head
AMS - Machine Screw	62 - 5/8"	225 - 2 1/4"	PH - Pan Head
APC - Conical Anchor	75 - 3/4"	250 - 2 1/2"	RH - Rod Hanger
APD - Plastic Driller	87 - 7/8"	275 - 2 3/4"	RS - Slotted Round Head
APDM - Plastic Driller - Mini		300 - 3"	
APH - Plastic Hollow Wall Anchor		325 - 3 1/4"	SS4 - 304 Stainless Steel
APS - Plastic Screw Anchor		350 - 3 1/2"	
ARC - Rapid Rod™ Concrete		375 - 3 3/4"	T - Tool
ARS - Rapid Rod™ Steel		400 - 4"	WH - Wire Hanger
ARW - Rapid Rod™ Wood		425 - 4 1/4"	
ASA - Sleeve Anchor		450 - 4 1/2"	
ASE - Single Expansion Anchor		500 - 5"	
ATB - Toggle Bolt		525 - 5 1/4"	
ATM - Self-Tapping Machine Screw Anchor		550 - 5 1/2"	
		600 - 6"	
AWA - Wedge Anchor		700 - 7"	
AWSD - Seismic Wedge Anchor			
AWS - Wall Screw			
AZD - Zinc Driller			
AZDM - Zinc Driller-Mini			

## Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

## Rapid Rod Hangers Steel

### Steel Rapid Rod - Data

Point Style	#3	#5
Self-Drilling Range (in.)	20 ga. - 3/16	3/16 - 1/2
Screw Size (UNC) *	1/4"-20	1/4"-20
Thread Length (in.) *	1 3/16	3 1/32

\* Dimensions for self-drilling (embedded) portion of anchor.

### Steel Rapid Rod - Load Data

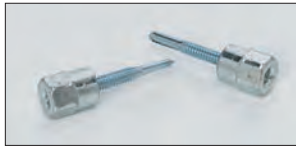
Rod/ Anchor Size	Minimum Steel Gauge Thickness						
	20 (.036")	18 (.048")	16 (.060")	14 (.075")	12 (.105")	3/16"	1/4"
1/4	100	155	245	290	390	800	1260
1/4 w/nut	390	390	440	440	510	960	510
3/8	100	155	245	290	390	490	490
3/8 w/nut	365	365	365	365	365	365	365
1/2	120	175	230	390	510	820	1260

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut. UL & FM load rating for 3/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.

UL & FM load rating for 1/2" rapid rod is 900 lbs. and can support up to a maximum 6" pipe.

## Rapid Rod™ Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
<b>Steel Rod Hanger - Point Style #3 For Purlins</b>				
78205153317	<b>ARS-25-100</b>	1/4"	1/4" x 1"	100
78205153318	<b>ARS-37-200</b>	3/8"	1/4" x 2"	100
78205153320	<b>ARS-37-100HN**</b>	3/8"	1/4" x 1" w/nuts	100
78205153321	<b>ARS-37-150</b>	3/8"	1/4" x 1 1/2"	100
78205153322	<b>ARS-37-150HN**</b>	3/8"	1/4" x 1 1/2" w/nuts	100
<b>Steel Rod Hanger - Side Mount - Point Style #3 For Purlins</b>				
78205153323	<b>ARS-25-100SW</b>	1/4"	1/4" x 1"	100
78205153324	<b>ARS-37-100SW</b>	3/8"	1/4" x 1" w/nuts	100
<b>Steel Rod Hanger - Point Style #5 For Purlins</b>				
78205153325	<b>ARS-25-150HD</b>	1/4"	#12-24 x 1 1/2"	100
78205153326	<b>ARS-37-150HDHN**</b>	3/8"	#12-24 x 1 1/2" w/nuts	100
78205153327	<b>ARS-50-150HDHN**</b>	1/2"	#12-24 x 1 1/2" w/nuts	100

\*\* For UL & FM listings, steel rapid rod should be installed with a retaining nut.

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
<b>Tool</b>			
78205153287	<b>7187</b>	Universal Steel & Wood Socket	1

## Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

## Rapid Rod Hangers - Concrete

Concrete Rapid Rod - Data	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Thread Length (in.)	1 1/8	1 3/8	2 1/2
Min. Embedment Depth (in.)	1 1/4	1 1/2	2 3/4
Load Capacity Tension (lbs.) *	485	650	1510
Load Capacity Shear (lbs.) *	610	660	1580

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

FM approved load capacity for 3/8" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for 1/2" anchor is 950 lbs., maximum 8" pipe size.

## Rapid Rod Hangers - Wood

Wood Rapid Rod - Data	1/4" Thread Forming	3/8" Thread Forming
Pre-Drill Diameter (in.)	1/8	1/8
Point Style	Type 17	Type 17

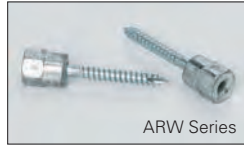
### Wood Rapid Rod - Embedment & Load Data

Rod/Anchor Size	Embedment Depth	Fir	Pine	Spruce
1/4	1"	170	160	160
3/8	2"	375	375	375
1/2	2 1/2"	665	775	775

Minimum load ratings are based on a safety factor of 4.

UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 2 1/2" screw size. Approved for 365 lbs., up to 4" pipe.

## Rapid Rod™ Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
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### Concrete Rod Hanger - ANSI Wedge-Bolt OT Thread Shank Style

78205153328	<b>ARC-25-125</b>	1/4"	1/4" x 1"	100
78205153329	<b>ARC-37-150</b>	3/8"	1/4" x 1 1/2"	100
78205153330	<b>ARC-50-275</b>	1/2"	3/8" x 2 3/4"	50

For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with 1/4" drill bit.

### Wood Rod Hanger - Point Style Type 17

78205153331	<b>ARW-25-200</b>	1/4"	1/4" x 2"	100
78205153332	<b>ARW-37-100</b>	3/8"	1/4" x 1"	100
78205153333	<b>ARW-37-200</b>	3/8"	1/4" x 2"	100
78205153334	<b>ARW-37-250</b>	3/8"	3/8" x 2 1/2"	100
78205153335	<b>ARW-50-250</b>	1/2"	1/2" x 2 1/2"	100

### Wood Rod Hanger - Side Mount - Point Style Type 17

78205153336	<b>ARW-25-100SW</b>	1/4"	1/4" x 1"	100
78205153337	<b>ARW-37-200SW</b>	3/8"	1/4" x 2"	100

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
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### Tools

78205153287	<b>7187</b>	Universal Steel & Wood Socket	1
78205153288	<b>7195</b>	1/4" Concrete Socket	1
78205153289	<b>7197</b>	3/8" Concrete Socket	1
78205153290	<b>7198</b>	1/2" Concrete Socket	1
78205153360	<b>5874</b>	Concrete Tapper Sleeve Assy.	1
78205153361	<b>5866</b>	1/4" X 6" Hex Shank SDS Drill Bit	1

Read safety/installation instruction sheets in packages before use.



# Anchors

## Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.



Drop-In Anchors - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	40	80
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Min. Embedment Depth (in.)	1	19/16	2	2 1/2	3 3/16
Load Capacity Tension (lbs) *	495	1045	1440	1860	3600
Load Capacity Shear (lbs) *	530	1145	1600	3095	3920

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Thread Depth	Box Qty.
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### Drop-In Anchor - Smooth Wall - Steel

78101103218	<b>ADI-25</b>	1/4"	1"	7/16"	100
78101103219	<b>ADI-37</b>	3/8"	1 9/16"	5/8"	50
78101103220	<b>ADI-50</b>	1/2"	2"	1 3/16"	50
78101103221	<b>ADI-62</b>	5/8"	2 1/2"	1 13/16"	25
78101103222	<b>ADI-75</b>	3/4"	3 3/16"	1 3/8"	10

### Drop-In Anchor - Smooth Wall - StainlessSteel

78101103223	<b>ADI-25SS4</b>	1/4"	1"	7/16"	100
78101103224	<b>ADI-37SS4</b>	3/8"	1 9/16"	5/8"	50
78101103226	<b>ADI-50SS4</b>	1/2"	2"	1 3/16"	50
78101103227	<b>ADI-62SS4</b>	5/8"	2 1/2"	1 13/16"	25
78101103228	<b>ADI-75SS4</b>	3/4"	3 3/16"	1 3/8"	10

### Drop-In Hanger - Flanged - Steel

78205153297	<b>ADI-25FL</b>	1/4"	1"	7/16"	100
78205153298	<b>ADI-37FL</b>	3/8"	1 9/16"	5/8"	50
78205153299	<b>ADI-50FL</b>	1/2"	2"	1 3/16"	50

UPC/Part Number	Catalog Number	Rod Size	Pin Length	Box Qty.
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### Setting Tools

78101103229	<b>6305</b>	1/4"	39/64"	1
78101103231	<b>6307</b>	3/8"	61/64"	1
78101103232	<b>6309</b>	1/4"	1 3/16"	1
78101103233	<b>6311</b>	1/4"	1 5/15"	1
78101103234	<b>6313</b>	1/4"	1 61/64"	1

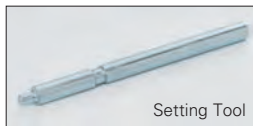
Read safety/installation instruction sheets in packages before use.

## Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.



Anchor



Setting Tool

Mini Drop-In Anchors - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8
Max. Tightening Torque (ft-lbs)	3	5	10
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	5/8	3/4	1
Load Capacity Tension (lbs) *	350	530	840
Load Capacity Shear (lbs) *	415	1055	1220

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Thread Depth	Box Qty.
<b>Mini Drop-In Anchor - Steel</b>				
78205153300	<b>ADM-25</b>	1/4"	3/8"	100
78205153302	<b>ADM-37</b>	3/8"	13/32"	50
78205153302	<b>ADM-50</b>	1/2"	5/8"	50
<b>Setting Tools</b>				
78205153301	<b>6336</b>	1/4"	—	1
78205153303	<b>6323</b>	3/8"	—	1
78205153305	<b>6338</b>	3/8"	—	1

Read safety/installation instruction sheets in packages before use.

## Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.



Hollow Base Drop-In - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	5/8	3/4
Max. Tightening Torque (ft-lbs)	5	10	20
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Thread Length In Cone (in.)	3/8	5/8	3/4
Min. Embedment Depth (in.)	3/4	1	1 1/2
Load Capacity Tension (lbs) *	285	520	1005
Load Capacity Shear (lbs) *	300	640	1005

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Overall Length	Sleeve Length	Box Qty.
<b>Hollow Base Drop-In</b>					
78205153291	<b>ADH-25</b>	1/4"	7/8"	5/8"	100
78205153293	<b>ADH-37</b>	3/8"	15/16"	15/16"	50
78205153294	<b>ADH-50</b>	1/2"	1 3/4"	1 1/4"	50
<b>Setting Tools</b>					
78205153292	<b>9323</b>	1/4"	-	-	1
78205153294	<b>9343</b>	3/8"	-	-	1
78205153296	<b>9353</b>	1/2"	-	-	1

## Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



Concrete Screw Bolts - Data	1/4"	3/8"
ACB Drill Bit Size (in.)	1/4	3/8
Concrete Screw Tolerance Range (in.)	0.255 - 0.259	0.385 - 0.389
Min. Embedment Depth (in.)	1	1 1/2
Load Capacity Tension (lbs) *	335	630
Load Capacity Shear (lbs) *	520	1170

\* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Anchor Length	Thread Length	Box Qty.
<b>Screw Type Anchor - Steel</b>				
78205153247	<b>ACB-25-175</b>	1/4" x 1 3/4"	1 5/8"	100
78205153248	<b>ACB-25-225</b>	1/4" x 2 1/4"	2"	100
78205153249	<b>ACB-25-300</b>	1/4" x 3"	2 3/4"	100
78205153250	<b>ACB-37-175</b>	3/8" x 1 3/4"	1 1/2"	50
78205153251	<b>ACB-37-250</b>	3/8" x 2 1/2"	2 1/4"	50
78205153252	<b>ACB-37-300</b>	3/8" x 3"	2 3/4"	50
78205153253	<b>ACB-37-400</b>	3/8" x 4"	3 3/4"	50

UPC/Part Number	Catalog Number	Drill Size	Usable Length	Overall Length	Box Qty.
<b>Drill Bits - Straight Shank Type</b>					
78205153254	<b>1372</b>	1/4"	4"	6"	1
78205153256	<b>1380</b>	3/8"	4"	6"	1
<b>Drill Bits - SDS Type</b>					
78205153255	<b>1314</b>	1/4"	4"	6"	1
78205153257	<b>1316</b>	3/8"	4"	6"	1

**Note:** Matched tolerance bits must be used for installation.

Read safety/installation instruction sheets in packages before use.

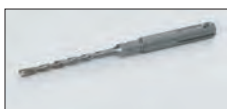
# Anchors

## Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit



SDS Hex Drill Bit



Hex Head

Hex Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Width (in.)	1/4	5/16
Washer O.D. (in.)	11/32	13/32
Washer Thickness (in.)	1/32	1/32
Hex Driver (in.)	1/4	5/16



Flat Head

Flat Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Phillips Head O.D. (in.)	3/8	1/2
Phillips Head Height (in.)	9/64	3/16
Phillips Bit Size	2	3

Embedment Depth	Nominal Anchor Dia. / Loading*			
	3/16" Tension	3/16" Shear	1/4" Tension	1/4" Shear
1"	90	175	265	205
1 1/4"	175	230	335	355
1 3/8"	215	230	370	385
1 1/2"	255	230	405	355
1 3/4"	375	235	435	370

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

## Concrete Screws

UPC/Part Number	Catalog Number	Size	Box Qty.
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### Hex Head Concrete Screws

78101103342	<b>ACS-18-125H</b>	3/16" x 1 1/4"	100
78101103343	<b>ACS-18-175H</b>	3/16" x 1 3/4"	100
78101103344	<b>ACS-18-225H</b>	3/16" x 2 1/4"	100
78101103346	<b>ACS-18-275H</b>	3/16" x 2 3/4"	100
78101103347	<b>ACS-18-325H</b>	3/16" x 3 1/4"	100
78101103348	<b>ACS-18-375H</b>	3/16" x 3 3/4"	100
78101103349	<b>ACS-18-400H</b>	3/16" x 4"	100
78101103342	<b>ACS-25-125H</b>	1/4" x 1 1/4"	100
78101103343	<b>ACS-25-175H</b>	1/4" x 1 3/4"	100
78101103344	<b>ACS-25-225H</b>	1/4" x 2 1/4"	100
78101103346	<b>ACS-25-275H</b>	1/4" x 2 3/4"	100
78101103347	<b>ACS-25-325H</b>	1/4" x 3 1/4"	100
78101103348	<b>ACS-25-375H</b>	1/4" x 3 3/4"	100
78101103349	<b>ACS-25-400H</b>	1/4" x 4"	100

### Flat Head Concrete Screws

78205153259	<b>ACS-18-125F</b>	3/16" x 1 1/4"	100
78205153260	<b>ACS-18-175F</b>	3/16" x 1 3/4"	100
78205153261	<b>ACS-18-225F</b>	3/16" x 2 1/4"	100
78205153262	<b>ACS-18-275F</b>	3/16" x 2 3/4"	100
78205153263	<b>ACS-25-125F</b>	1/4" x 1 1/4"	100
78205153264	<b>ACS-25-175F</b>	1/4" x 1 3/4"	100
78205153265	<b>ACS-25-225F</b>	1/4" x 2 1/4"	100
78205153266	<b>ACS-25-275F</b>	1/4" x 2 3/4"	100

UPC/Part Number	Catalog Number	Bit Size	Usable Length	Box Qty.
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### Straight Shank Drill Bits

78205153267	<b>2782</b>	5/32" x 4 1/2"	3"	1
78205153269	<b>2786</b>	3/16" x 4 1/2"	3"	1

### SDS Hex Drill Bits

78205153268	<b>2793</b>	5/32" x 5"	3"	1
78205153270	<b>2796</b>	3/16" x 5"	3"	1

UPC/Part Number	Catalog Number	Description	Box Qty.
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### Setting Tool

78101103453	<b>2791</b>	ConcreteScrew Tool Kit	100
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Read safety/installation instruction sheets in packages before use.

# Anchors

## Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size  $\frac{9}{32}$ " diameter, head height  $\frac{3}{4}$ ".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



Wedge Expansion Anchor - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Washer O.D. (in.)	5/8	13/16	1 1/16	1 3/4
Wrench Size	7/16	9/16	3/4	15/16
Max. Tightening Torque (ft-lbs)	8	28	60	90
Min. Embedment Depth (in.)	1 1/8	1 5/8	2 1/4	2 3/4
Load Capacity Tension (lbs) *	360	760	1390	2075
Load Capacity Shear (lbs) *	405	940	1700	2975

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

Wire Hanger Wedge Anchor - Data	1/4"
ANSI Drill Bit Size (in.)	1/4
Min. Embedment Depth (in.)	1 1/8
Head Height (in.)	3/4
Load Capacity Tension (lbs) *	360
Load Capacity Shear (lbs) *	405

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Hole Size	Box Qty.
<b>Wire Hanger</b>				
78101103106	<b>AWA-25-200WH</b>	1/4" x 2"	9/32"	100

## Wedge Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Wedge Anchor</b>				
78101103068	<b>AWA-25-175</b>	1/4" x 1 3/4"	3/4"	100
78101103069	<b>AWA-25-225</b>	1/4" x 2 1/4"	1 1/4"	100
78101103070	<b>AWA-25-325</b>	1/4" x 3 1/4"	2 1/4"	100
78101103071	<b>AWA-37-225</b>	3/8" x 2 1/4"	1 1/4"	50
78101103072	<b>AWA-37-275</b>	3/8" x 2 3/4"	1 5/8"	50
78101103073	<b>AWA-37-300</b>	3/8" x 3"	1 7/8"	50
78205153364	<b>AWA-37-350</b>	3/8" x 3 1/2"	2 3/8"	50
78101103074	<b>AWA-37-375</b>	3/8" x 3 3/4"	2 5/8"	50
78101103075	<b>AWA-37-500</b>	3/8" x 5"	3 7/8"	50
78205153366	<b>AWA-50-275</b>	1/2" x 2 3/4"	1 3/8"	50
78101103077	<b>AWA-50-375</b>	1/2" x 3 3/4"	2 3/8"	50
78205145636	<b>AWA-50-450</b>	1/2" x 4 1/2"	3 1/8"	50
78101103079	<b>AWA-50-550</b>	1/2" x 5 1/2"	4 1/8"	50
78101103080	<b>AWA-50-700</b>	1/2" x 7"	5 5/8"	25
78101103081	<b>AWA-62-275</b>	5/8" x 3 1/2"	2"	25
78101103082	<b>AWA-62-375</b>	5/8" x 4 1/2"	3"	25
78101103083	<b>AWA-62-450</b>	5/8" x 5"	3 1/2"	25
78101103084	<b>AWA-62-550</b>	5/8" x 6"	4 1/2"	25
78101103085	<b>AWA-62-700</b>	5/8" x 7"	5 1/2"	25
<b>Wedge Anchor - Stainless Steel</b>				
78101103146	<b>AWA-25-175SS4</b>	1/4" x 1 3/4"	3/4"	100
78101103147	<b>AWA-25-225SS4</b>	1/4" x 2 1/4"	1 1/4"	100
78101103148	<b>AWA-25-325SS4</b>	1/4" x 3 1/4"	2 1/4"	100
78101103149	<b>AWA-37-225SS4</b>	3/8" x 2 1/4"	1 1/4"	50
78101103150	<b>AWA-37-275SS4</b>	3/8" x 2 3/4"	1 5/8"	50
7810110151	<b>AWA-37-300SS4</b>	3/8" x 3"	1 7/8"	50
78205153365	<b>AWA-37-350SS4</b>	3/8" x 3 1/2"	2 3/8"	50
78101103152	<b>AWA-37-375SS4</b>	3/8" x 3 3/4"	2 5/8"	50
78101103153	<b>AWA-37-500SS4</b>	3/8" x 5"	3 7/8"	50
78101103154	<b>AWA-50-275SS4</b>	1/2" x 2 3/4"	1 3/8"	50
78101103155	<b>AWA-50-375SS4</b>	1/2" x 3 3/4"	2 3/8"	50
78205153367	<b>AWA-50-450SS4</b>	1/2" x 4 1/2"	3 1/8"	50
78101103157	<b>AWA-50-550SS4</b>	1/2" x 5 1/2"	4 1/8"	50
78205153368	<b>AWA-50-700SS4</b>	1/2" x 7"	5 5/8"	25
78205153369	<b>AWA-62-275SS4</b>	5/8" x 3 1/2"	2"	25
78205153370	<b>AWA-62-375SS4</b>	5/8" x 4 1/2"	3"	25
78205153779	<b>AWA-62-450SS4</b>	5/8" x 5"	3 1/2"	25
78205153371	<b>AWA-62-550SS4</b>	5/8" x 6"	4 1/2"	25
78205143044	<b>AWA-62-700SS4</b>	5/8" x 7"	5 1/2"	25

Read safety/installation instruction sheets in packages before use.



## Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



<b>Seismic Wedge Anchor - Data</b>	<b>3/8"</b>	<b>1/2"</b>	<b>5/8"</b>	<b>3/4"</b>
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	7/16	9/16	11/16	13/16
Minimum Hole Depth (in.)	2 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	5
Minimum Concrete Thickness (in.)	4	4 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>4</sub>	7
Max. Tightening Torque (ft-lbs)	20	40	60	110
Min. Embedment Depth (in.)	2 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>

For loading information, see ICC-ES ESR-2502.

## Seismic Wedge Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Seismic Wedge Anchor</b>				
78205153398	<b>AWSD-37-300</b>	3/8" X 3"	1 3/4"	50
78205153399	<b>AWSD-37-350</b>	3/8" X 3 1/2"	2 1/4"	50
78205153400	<b>AWSD-37-375</b>	3/8" X 3 3/4"	2 1/2"	50
78205153401	<b>AWSD-37-500</b>	3/8" X 5"	3 3/4"	50
78205153402	<b>AWSD-50-375</b>	1/2" X 3 3/4"	2 1/8"	50
78205153403	<b>AWSD-50-450</b>	1/2" X 4 1/2"	2 7/8"	50
78205153404	<b>AWSD-50-550</b>	1/2" X 5 1/2"	3 7/8"	50
78205153405	<b>AWSD-50-700</b>	1/2" X 7"	5 3/8"	50
78205153406	<b>AWSD-62-475</b>	5/8" X 4 3/4"	2 7/8"	25
78205153407	<b>AWSD-62-500</b>	5/8" X 5"	3 1/8"	25
78205153408	<b>AWSD-62-600</b>	5/8" X 6"	4 1/8"	25
78205153409	<b>AWSD-62-700</b>	5/8" X 7"	5 1/8"	25
78205153410	<b>AWSD-75-550</b>	3/4" X 5 1/2"	3 1/4"	20
78205153411	<b>AWSD-75-625</b>	3/4" X 6 1/4"	4"	20
78205153425	<b>AWSD-75-700</b>	3/4" X 7"	4 3/4"	20

Read safety/installation instruction sheets in packages before use.

# Anchors

## Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved.
- Made of Zinc Plated carbon steel.



Mushroom Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	7/64
Head Size O.D. (in.)	7/16	1/2
Min. Embedment Depth (in.)	7/8	7/8
Load Capacity Tension (lbs.) *	215	235
Load Capacity Shear (lbs.) *	330	470

Rod Hanger - Data	1/4"	3/8"
ANSI Drill Bit Size (in.)	3/16	1/4
UNC Thread Size	1/4"-20	3/8"-16
Head Height (in.)	1/2	5/8
Head Size O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	1 1/4	1 3/4
Load Capacity Tension (lbs.) *	315	500
Load Capacity Shear (lbs.) *	245	525



Wire Hanger - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Tie-Wire Hole (in.)	3/16	9/32
Head Height (in.)	37/64	41/64
Head Width (in.)	9/64 x 7/16	3/16 x 9/16
Min. Embedment Depth (in.)	1 1/8	1 1/8
Load Capacity Tension (lbs.)*	265	290
Load Capacity Shear (lbs.)*	240	330



\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Read safety/installation instruction sheets in packages before use.

## Drive Anchors

UPC/Part Number	Catalog Number	Size	Box Qty.
<b>Mushroom Head</b>			
78205153271	<b>ADA-18-100</b>	3/16" x 1"	100
78205153272	<b>ADA-18-125</b>	3/16" x 1 1/4"	100
78205153273	<b>ADA-18-150</b>	3/16" x 1 1/2"	100
78205153274	<b>ADA-18-200</b>	3/16" x 2"	100
78205153275	<b>ADA-18-250</b>	3/16" x 2 1/2"	100
78205153276	<b>ADA-18-300</b>	3/16" x 3"	100
78205153278	<b>ADA-25-100</b>	1/4" x 1"	100
78205153279	<b>ADA-25-125</b>	1/4" x 1 1/4"	100
78205153280	<b>ADA-25-150</b>	1/4" x 1 1/2"	100
78205153281	<b>ADA-25-200</b>	1/4" x 2"	100
78205153282	<b>ADA-25-250</b>	1/4" x 2 1/2"	100
78205153283	<b>ADA-25-300</b>	1/4" x 3"	100

UPC/Part Number	Catalog Number	Head Size	Box Qty.
<b>Rod Hanger</b>			
78205153284	<b>ADA-25RH</b>	1/4"	100
78205153286	<b>ADA-37RH</b>	3/8"	100
<b>Wire Hanger</b>			
78205153277	<b>ADA-18WH</b>	3/16"	100
78205153285	<b>ADA-25WH</b>	1/4"	100

Read safety/installation instruction sheets in packages before use.

# Anchors

## Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN)  
Style



Acorn Nut (AN)  
Style



Slotted Round  
Head (RS) Style

Sleeve Type Expansion - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16	15/16
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/2"-13	5/8"-11
Min. Embedment Depth (in.)	5/8	15/8	2 1/4	2 1/4	2 1/4
Load Capacity Tension (lbs) *	155	670	1255	1465	2105
Load Capacity Shear (lbs) *	300	610	1055	1800	2900

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger  
(RH) Style



Wire Hanger  
(WH) Style

Sleeve Type Expansion - Data	Hanger Rod			Wire Hanger
	1/4"	3/8"	1/2"	5/16"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/16
Fixture Clearance Hole (in.)	NA	NA	NA	1/4
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/4"-20
Coupling Height (in.)	7/8	1	1 1/4	NA
Min. Embedment Depth (in.)	5/8	15/8	2 1/4	1 1/2
Load Capacity Tension (lbs) *	155	670	1255	520
Load Capacity Shear (lbs) *	300	610	1055	380

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to [www.cooperblineline.com](http://www.cooperblineline.com).

## Sleeve Type Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
<b>Hex Nut Style</b>				
78101102995	<b>ASA-37-187HN</b>	3/8" x 1 7/8"	1 5/8"	50
78101102996	<b>ASA-37-300HN</b>	3/8" x 3"	1 5/8"	50
78205153400	<b>ASA-37-400HN</b>	3/8" x 4"	1 5/8"	50
78101102997	<b>ASA-50-225HN</b>	1/2" x 2 1/4"	2 1/8"	25
78101102998	<b>ASA-50-300HN</b>	1/2" x 3"	2 1/4"	25
78101102999	<b>ASA-50-400HN</b>	1/2" x 4"	2 1/4"	25
78205153351	<b>ASA-50-525HN</b>	1/2" x 5 1/4"	2 1/4"	25
78101103002	<b>ASA-50-600HN</b>	1/2" x 6"	2 1/4"	10
78101103003	<b>ASA-62-225HN</b>	5/8" x 2 1/4"	2 1/8"	25
78101103004	<b>ASA-62-300HN</b>	5/8" x 3"	2 3/4"	25
78101103005	<b>ASA-62-425HN</b>	5/8" x 4 1/4"	2 3/4"	10
78101103006	<b>ASA-62-600HN</b>	5/8" x 6"	2 3/4"	10
78101103007	<b>ASA-75-250HN</b>	3/4" x 2 1/2"	2 1/8"	10
78101103008	<b>ASA-75-425HN</b>	3/4" x 4 1/4"	3 3/8"	10
78101103009	<b>ASA-75-625HN</b>	3/4" x 6 1/4"	3 3/8"	10

### Hex Nut Style - Stainless Steel

78205153343	<b>ASA-37-187HNSS4</b>	3/8" x 1 7/8"	1 5/8"	50
78205153345	<b>ASA-37-300HNSS4</b>	3/8" x 3"	1 5/8"	50
78205153347	<b>ASA-50-225HNSS4</b>	1/2" x 2 1/4"	2 1/8"	25
78205153349	<b>ASA-50-300HNSS4</b>	1/2" x 3"	2 1/4"	25
78205153350	<b>ASA-50-400HNSS4</b>	1/2" x 4"	2 1/4"	25
78205153352	<b>ASA-62-425HNSS4</b>	5/8" x 4 1/4"	2 3/4"	10
78205153353	<b>ASA-75-400HNSS4</b>	3/4" x 4"	3 3/8"	10

### Acorn Nut Style

78205153341	<b>ASA-25-62AN</b>	1/4" x 5/8"	1/2"	100
78101102991	<b>ASA-25-137AN</b>	1/4" x 1 3/8"	1 1/8"	100
78101102992	<b>ASA-25-225AN</b>	1/4" x 2 1/4"	1 1/8"	100

### Slotted Round Head Style

78205153338	<b>ASA-25-112RS</b>	1/4" x 1 1/8"	1"	100
78205153340	<b>ASA-25-200RS</b>	1/4" x 2"	1 1/8"	100

UPC/Part Number	Catalog Number	Size	Drill Diameter	Box Qty.
<b>Rod Hanger</b>				
78205153339	<b>ASA-25-150RH</b>	1/4" x 1 1/2"	5/16"	50
78205153344	<b>ASA-37-187RH</b>	3/8" x 1 7/8"	3/8"	50
78205153348	<b>ASA-50-225RH</b>	1/2" x 2 1/4"	1/2"	25
<b>Wire Hanger</b>				
78205153342	<b>ASA-31-150WH</b>	5/16" x 1 1/2"	5/16"	100

Read safety/installation instruction sheets in packages before use.

# Anchors

## Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Double Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	1/2	5/8	3/4	7/8
Min. Embedment Depth (in.)	1 1/4	1 3/4	2 1/4	2 1/2
Load Capacity Tension (lbs) *	415	875	1625	1750
Load Capacity Shear (lbs) *	405	1000	1540	2855

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
78101103251	<b>ADE-25</b>	1/4"	1 3/8"	50
78101103253	<b>ADE-37</b>	3/8"	2"	50
78101103254	<b>ADE-50</b>	1/2"	2 1/2"	25
78101103256	<b>ADE-62</b>	5/8"	2 3/4"	25

## Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Single Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	5/16	5/16	7/16	5/8
Min. Embedment Depth (in.)	1 3/8	1 5/8	2 1/2	2 3/4
Load Capacity Tension (lbs) *	500	725	1225	2050
Load Capacity Shear (lbs) *	405	950	1540	2855

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
<b>Single Expansion Anchor</b>				
78101103245	<b>ASE-25</b>	1/4"	1 5/16"	50
78101103247	<b>ASE-37</b>	3/8"	1 1/2"	50
78101103248	<b>ASE-50</b>	1/2"	2 1/16"	25
78101103249	<b>ASE-62</b>	5/8"	2 5/8"	25

Read safety/installation instruction sheets in packages before use.



# Anchors

## Wood Knocker™† Anchors

- Wood-Knocker™ concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Wood Knocker™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8
Plastic Flange Diameter (in.)	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Overall Length (in.)	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8
Min. Insert Spacing (in.)	9	9	9	12	12
Min. End Distance (in.)	6	6	6	9	9
Load Capacity Tension (lbs) *	930	1200	1200	1160	1160
Load Capacity Shear (lbs) *	370	1330	1840	2800	2800

\* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum embedment depth is 2".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
<b>Wood Knocker</b>				
78205131147	<b>ACPW-25</b>	1/4"	Brown	100
78205131149	<b>ACPW-38</b>	3/8"	Green	100
78205131151	<b>ACPW-50</b>	1/2"	Yellow	100
78205131152	<b>ACPW-62</b>	5/8"	Red	50
78205131153	<b>ACPW-75</b>	3/4"	Purple	50

† Wood Knocker™ is a registered trademark used by Power® Fasteners, Inc.

## Bang-It™† Anchors

- Bang-It™ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Bang-It™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Metal Hole Saw Diameter (in.)	13/16	13/16	13/16	13/16	13/16	13/16
Drilling Speed (rpm)	700-900	700-900	700-900	500-700	500-700	500-700
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8	1 5/16
Length of Sleeve (in.)	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	7/8"-9
Embedment Depth (in.)	2	2	2	2	2	2
Upper Deck Tension Load (lbs) *	835	1435	1775	2200	2200	2200
Lower Deck Tension Load (lbs) *	835	1115	1115	1115	1115	1115
Upper Deck Shear Load (lbs) *	620	620	620	740	740	740
Lower Deck Shear Load (lbs) *	625	840	840	840	840	840

\* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
<b>Bang-It™</b>				
78205131154	<b>ACPD-25</b>	1/4"	Brown	100
78205131156	<b>ACPD-38</b>	3/8"	Green	100
78205131157	<b>ACPD-50</b>	1/2"	Yellow	100
78205131158	<b>ACPD-62</b>	5/8"	Red	50
78205131166	<b>ACPD-75</b>	3/4"	Purple	50
78205153258	<b>ACPD-87</b>	7/8"	Black	50

### Bang-It™ Hole Saws

78205131169	<b>ACPD-HS813</b>	13/16" Carbide Hole Saw for 1/4", 3/8", 1/2"	1
78205131171	<b>ACPD-HS1188</b>	13/16" Carbide Hole Saw for 5/8", 3/4", 7/8"	1

† Bang-It™ is a registered trademark used by Power® Fasteners, Inc.

Read safety/installation instruction sheets in packages before use.

# Anchors

## Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



Machine Screw Anchor - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8
Max. Tightening Torque (ft-lbs)	5	10	15
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	7/8	1 1/4	1 1/2
Load Capacity Tension (lbs) *	585	775	1095
Load Capacity Shear (lbs) *	355	825	1135

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Box Qty.
<b>Machine Screw Anchor</b>			
78101103239	<b>AMS-25</b>	1/4"	100
78101103242	<b>AMS-37</b>	3/8"	50
78101103243	<b>AMS-50</b>	1/2"	50
<b>Setting Tool</b>			
78205109765	<b>9221</b>	1/4"	1
78205109767	<b>9231</b>	3/8"	1
78205109768	<b>9241</b>	1/2"	1

Read safety/installation instruction sheets in packages before use.

## Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- Made of Zinc Plated carbon steel.
- Setting tool included.



Self-Tapping Machine Screw - Data	3/8"
ANSI Drill Bit Size (in.)	1/2
Min. Concrete Thickness (in.)	4
Max. Tightening Torque (ft-lbs)	8
Min. Embedment Depth (in.)	1 <sup>5</sup> / <sub>8</sub>
Load Capacity Tension (lbs) *	540
Load Capacity Shear (lbs) *	825

\* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.  
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Size	Thread Depth	Box Qty.
<b>Self-Tapping Machine Screw Anchor</b>				
78205153362	<b>ATM-37</b>	3/8"	11/16"	50
<b>Tool</b>				
78205153363	<b>6407 SD</b>	3/8"	--	1

Read safety/installation instruction sheets in packages before use.

# Anchors

## Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



Drive Nail - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Size, O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	3/4	5/8
Load Capacity Tension (lbs) *	125	150
Load Capacity Shear (lbs) *	175	205

\* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Box Qty.
<b>Drive Nail Anchor</b>			
78101102964	<b>ADN-18-87</b>	3/16" x 7/8"	100
78101102965	<b>ADN-25-75</b>	1/4" x 3/4"	100
78101102966	<b>ADN-25-100</b>	1/4" x 1"	100
78101102967	<b>ADN-25-125</b>	1/4" x 1 1/4"	100
78101102968	<b>ADN-25-150</b>	1/4" x 1 1/2"	100
78101102969	<b>ADN-25-200</b>	1/4" x 2"	100
78205153306	<b>ADN-25-300</b>	1/4" x 3"	100

Read safety/installation instruction sheets in packages before use.

## Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2<sup>1</sup>/<sub>2</sub>".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



Toggle Bolt - Data	3/16"		1/4"		3/8"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	35	35	55	55	60	65
1/2" Wallboard	45	50	60	60	65	75
5/8" Wallboard	60	60	65	65	75	80
3/4" Wallboard	75	70	80	75	85	90
Hollow Concrete Masonry *	70	70	70	120	195	140

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

\* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Drill Diameter	Size	Box Qty.
<b>Toggle Bolt</b>				
78205153354	<b>ATB-18-300</b>	1/2"	3/16" x 3"	50
78205153355	<b>ATB-18-400</b>	1/2"	3/16" x 4"	50
78205153356	<b>ATB-25-300</b>	5/8"	1/4" x 3"	50
78205153357	<b>ATB-25-400</b>	5/8"	1/4" x 4"	50
78205153358	<b>ATB-37-300</b>	7/8"	3/8" x 3"	25
78205153359	<b>ATB-37-400</b>	7/8"	3/8" x 4"	25

Read safety/installation instruction sheets in packages before use.

# Anchors

## Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled  $\frac{3}{16}$ " ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



Wall Screw - Data	Minimum Embedment Depth	Load Cap. Tension (lbs.) *	Load Cap. Shear (lbs.) *
Concrete *	$\frac{3}{4}$ "	90	260
$\frac{1}{2}$ " Wallboard	NA	20	60
$\frac{5}{8}$ " Wallboard	NA	35	90
$\frac{3}{4}$ " Plywood	NA	65	150
Grout-Filled Concrete Masonry	1"	55	165
Hollow Concrete Masonry	1"	60	165
Brick Masonry	$\frac{3}{4}$ "	70	120

\* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

UPC/Part Number	Catalog Number	Size	Head Type	Box Qty.
78205153372	<b>AWS-CH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Combo	100
78205153373	<b>AWS-OH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Oval	100
78205153374	<b>AWS-PH</b>	$\frac{3}{16}$ " x $1\frac{1}{4}$ "	Pan	100

## Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



Plastic Screw Anchor - Data	APS-4	APS-6	APS-8
Drill Diameter (in.)	3/16	1/4	5/16
Screw Size Range	#4-#10	#6-#12	#8-#14
Min. Thread Length (in.)	1 3/16	1 3/8	1 13/16
Min. Hole Diameter (in.)	1 3/8	1 9/16	2
Min. Wall Thickness (in.)	1/4	3/8	1/2
Min. Embedded Thread Length (in.)	1 7/8	2	2 9/16
Load Capacity Tension (lbs) *	18	20	22
Load Capacity Shear (lbs) *	32	40	45

\* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
<b>Plastic Screw Anchors</b>			
78205153315	<b>APS-4</b>	#4 - #10	100
78205153316	<b>APS-6</b>	#6 - #12	100
78205153319	<b>APS-8</b>	#8 - #14	100



# Anchors

## Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2 1/2".



Plastic Hollow Wall - Data	3/16"	1/4"	3/8"	1/2"
Thread Size (UNC)	3/16"-24	1/4"-20	3/8"-16	1/2"-13
Max. Tightening Torque (ft-lbs)	5	5	5	5
Minimum Clearance (in.)	1 7/8"	1 7/8"	1 7/8"	1 7/8"

Plastic Hollow Wall - Data	3/16"		1/4"		3/8"		1/2"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	30	60	35	70	35	70	35	75
1/2" Wallboard	35	70	35	75	40	75	40	90
5/8" Wallboard	50	95	55	105	55	105	55	110
3/4" Wallboard	50	110	55	120	60	120	60	120
Hollow Concrete Masonry *	215	150	270	285	285	465	345	595

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

\* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Anchor Size	Drill Dia.	Wall Thickness	Box Qty.
78205153311	<b>APH-18</b>	3/16" x 4"	1/2"	3/8" - 2 1/2"	50
78205153312	<b>APH-25</b>	1/4" x 4"	1/2"	3/8" - 2 1/2"	50
78205153313	<b>APH-37</b>	3/8" x 4"	3/4"	3/8" - 2 1/2"	25
78205153314	<b>APH-50</b>	1/2" x 4"	3/4"	3/8" - 2 1/2"	25

## Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in  $\frac{3}{8}$ " to 1" wallboard.
- APDM/AZDM designed for use in  $\frac{3}{8}$ " to  $\frac{5}{8}$ " wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.



Self-Drilling Wallboard Anchor - Data	APD/AZD	APDM/AZDM
Anchor Length (in.)	1 <sup>11</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>
Min. Screw Engagement (in.)	$\frac{3}{4}$	$\frac{3}{4}$

Self-Drilling Wallboard Anchor - Data	APD/AZD		APDM/AZDM	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
$\frac{3}{8}$ " Wallboard	15	15	10	15
$\frac{1}{2}$ " Wallboard	15	20	15	15
$\frac{5}{8}$ " Wallboard	20	25	20	20
$\frac{3}{4}$ " Wallboard	20	25	20	20

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
<b>Self-Drilling Wallboard Anchor</b>			
78101103314	<b>APD-8K</b>	#8 x 1"	50
78101103318	<b>AZD-8K</b>	#8 x 1"	50
78205153310	<b>APDM-6K</b>	#6 x 1"	50
78205153375	<b>AZDM-6K</b>	#6 x 1"	50

Read safety/installation instruction sheets in packages before use.

# Anchors

## Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.



Plastic Conical Anchor - Data	#8		#10 - #12	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
Nominal Weight Concrete *	110	70	140	90
Hollow Concrete Masonry **	60	45	70	55
Clay Brick Masonry ***	30	50	55	65
Minimum Embedment Depth	7/8"	7/8"	1"	1"

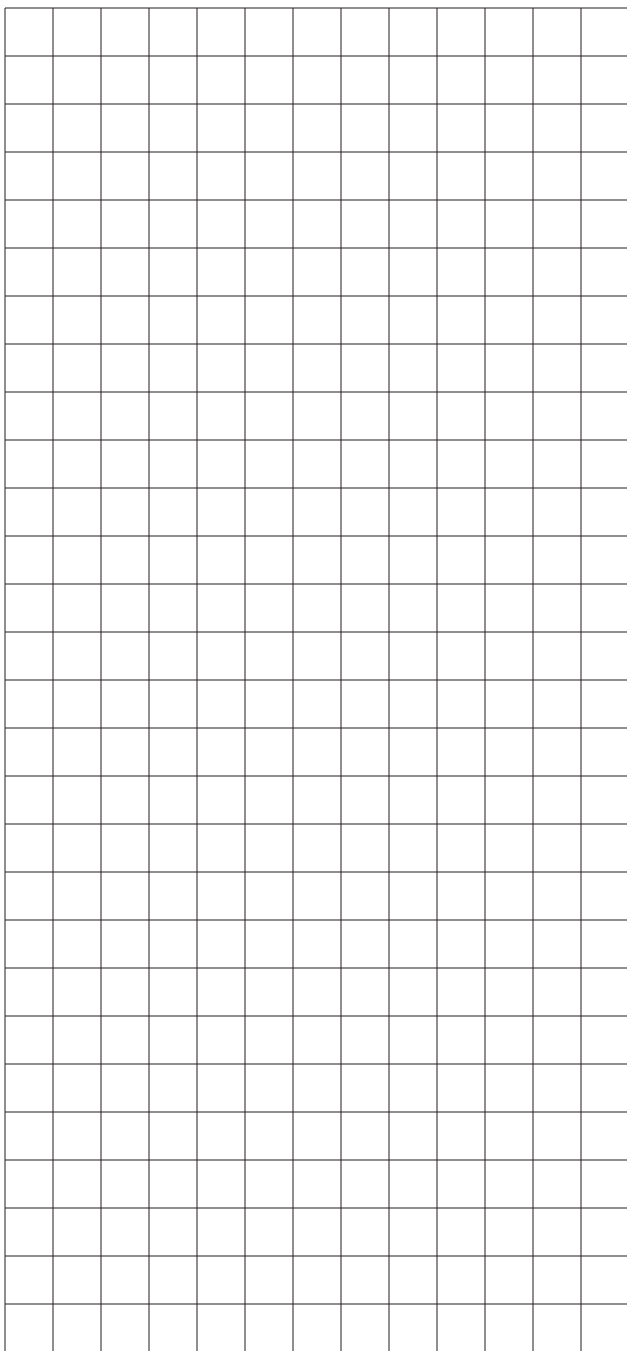
\* Based on concrete compression strength of 4000 psi.

\*\* Based on hollow concrete masonry with minimum compression strength of 1500 psi.

\*\*\* Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
78205153307	<b>APC-8K</b>	#8 x 1"	100
78205153308	<b>APC-10K</b>	#10 x 1"	100
78205153309	<b>APC-12K</b>	#12 x 1"	100



## Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

Eaton's B-Line Business has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact our engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:  
National Fire Protection Association  
1 Batterymarch Park  
P.O. Box 9101  
Quincy, Massachusetts 02269-9101  
1-800-344-3555

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**90.4 Enforcement.** This *Code* is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the *Code* has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

**By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. \***

This *Code* may require new products, constructions, or materials that may not yet be available at the time the *Code* is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this *Code* adopted by the jurisdiction.

## Article 100 - Definitions

**Listed.** Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

**\*Note:** Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.

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## 300.4 Protection Against Physical Damage.

Where subject to physical damage, conductors shall be adequately protected.

### (A) Cables and Raceways through Wood Members.

- (1) **Bored Holes.** . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1<sup>1</sup>/<sub>4</sub> in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (1/16 in.) thick, and of appropriate length and width installed to cover the area of the wiring. (See Figure 1)

*Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.*

*Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.*

- (2) **Notches in Wood.** . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. (See Figure 1)

*Exception: See Exceptions 1 & 2 from (1) Bored Holes*

### (B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.

- (1) **Nonmetallic-Sheathed Cable.** . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. (See Figure 2)

- (2) **Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing.** Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. (See Figure 1)

*Exception: See Exception 2 from (A)(1) Bored Holes*

## (D) Cables and Raceways Parallel to Framing Members and Furring Strips.

... , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm (1<sup>1</sup>/<sub>4</sub> in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm (1<sup>1</sup>/<sub>16</sub> in.) thick

(See Figures 1, 3, 4)

*Exception 1: See Exception 1 from (A)(1) Bored Holes*

*Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.*

*Exception 3: See Exception 2 from (A)(1) Bored Holes*

## (E) Cables and Raceways Installed in Shallow Grooves.

... , shall be protected by 1.6 mm (1<sup>1</sup>/<sub>16</sub> in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm (1<sup>1</sup>/<sub>4</sub> in.) free space for the full length of the groove in which the cable or raceway is installed.

(See Figure 1)

*Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes*

Figure 1 - BM3 & BM3M

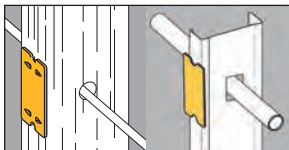


Figure 2 - BM1/BM2

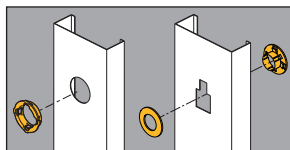
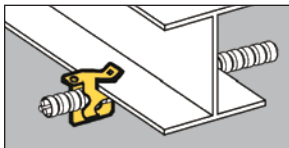


Figure 3 - BRC4 & BRC6M



Figure 4 - BX4



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## 300.11 Securing and Supporting.

**(A) Secured in Place.** Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.

**(1) Fire Rated Assemblies.** Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

**Exception:** *The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.*

**(2) Non-Fire-Rated Assemblies.** Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

**Exception:** *The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.*

**Note:** A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. (See Figures 5 - 8)

## Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. (See Figure 8)

### Upper Attachments

Figure 5 - BE Series

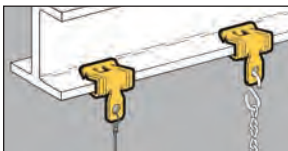


Figure 6 - BF3 Series & BF4 Series

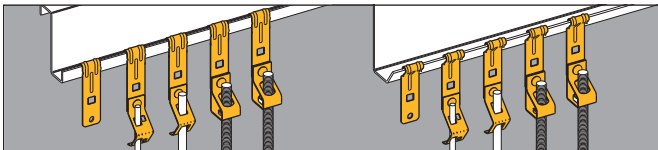


Figure 7 - BG-8-12-S18-W2

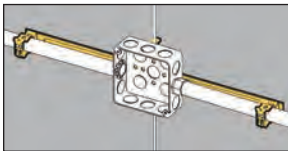
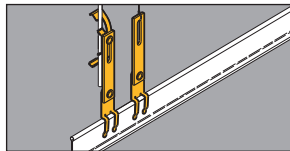


Figure 8 - BA311



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## 310.15 Ampacities For Conductors Rated 0-2000 Volts.

### (B) Tables . . . . .

#### (2) Adjustment Factors.

- (a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a current-carrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

*Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).*

*Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.*

*Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).*

*Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.*

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*Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:*

- (1) *Each cable has not more than three current-carrying conductors.*
- (2) *The conductors are 12 AWG copper.*
- (3) *Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings".*  
(See Figure 9)

*A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.*

- (b) *More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.*

Figure 9 - Bridle Rings

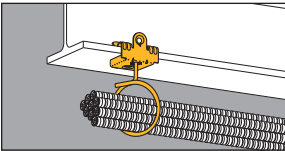
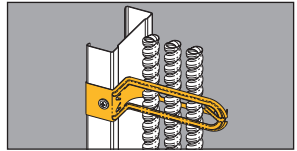


Figure 10 - BRC6M



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# NEC Requirements

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**314.23 Supports.** Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).

**(C) Mounting in Finished Surfaces.** An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. *(See Figures 11 & 12)*

**(D) Suspended Ceilings.** An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm<sup>3</sup> (100 in.<sup>3</sup>) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).

**(1) Framing Members.** An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. . . . *(See Figure 13)*

**(2) Support Wires.** The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. *(See Figure 14)*

**(E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), or Lampholders.**

. . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. *(See Figure 15)*

**(F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders.** . . . It

shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. *(See Figure 15)*

## 314.27 Outlet Boxes

**(B) Maximum Luminaire (Fixture) Weight.** Outlet boxes or fitting installed as required by 314.23 shall be permitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. *(See Figure 13)*

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## (D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.

Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

(See Figure 16)

Figure 11 - BB4-23

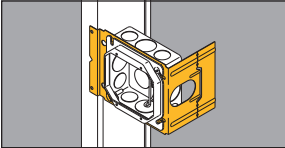


Figure 12 - BB9 & BB12

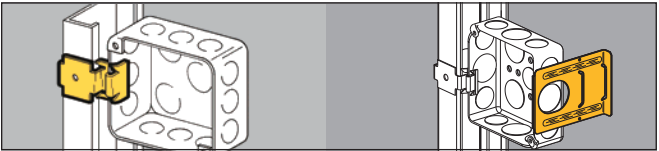


Figure 13 - BA50

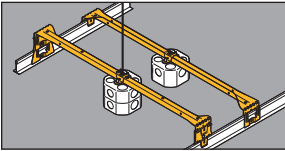


Figure 14 - BG-8-12-S18-W2

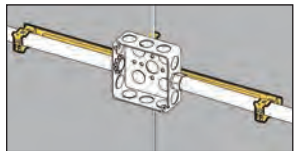


Figure 15 - BG-8-12-S18-U-2-4

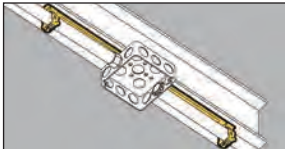
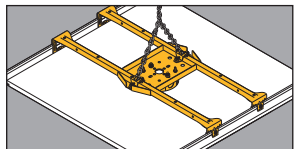


Figure 16 - BA50F



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# NEC Requirements

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## Article 320 Armored Cable : Type AC

### 320.17 Through or Parallel to Framing Members.

Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

### 320.30 Securing and Supporting.

- (A) **General.** Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) where installed on or across framing members. (See Figures 19 -22)
- (C) **Supporting.** Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) intervals.

## Article 330 Metal-Clad Cable : Type MC

### 330.17 Through or Parallel to Framing Members.

Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

### 330.30 Securing and Supporting.

- (A) **General.** Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. (See Figure 19 - 22)
- (C) **Supporting.** Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

## Article 334 Nonmetallic Sheathed Cables

### 334.17 Through or Parallel to Framing Members.

Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or

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parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection.

(See Figures 17 & 18)

**334.30 Securing and Supporting.** Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.

(See Figures 19 - 22)

**(A) Horizontal Runs Through Holes and Notches.**

In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) intervals and the nonmetallic-sheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

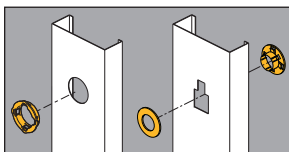


Figure 18 - BM3 & BM3M

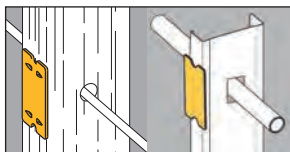


Figure 19 - BG-8-12-H7

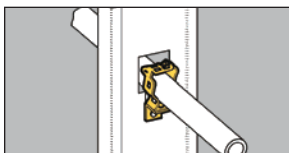


Figure 20 - BRC4 & BRC6M

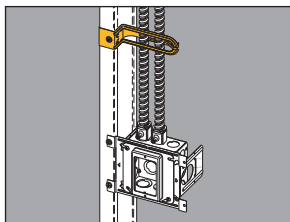


Figure 21 - BX5

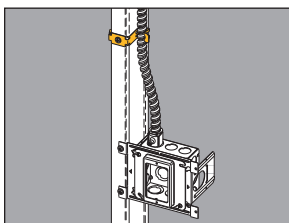
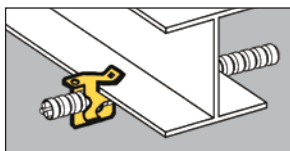


Figure 22 - BX4



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# NEC Requirements

## Article 344 Rigid Metal Conduit : Type RMC

### 344.30 Securing and Supporting.

**(A) Securely Fastened.** RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast.

*(See Figures 23 - 25)*

**(B) Supports.** RMC shall be supported in accordance with one of the following:

- (1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).
- (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2), . . . .
- (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft) . . . .
- (4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

## Article 348 Flexible Metal Conduit: Type FMC

### 348.30 Securing and Supporting.

**(A) Securely Fastened.** FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4<sup>1</sup>/<sub>2</sub> ft).

*(See Figures 23 - 25)*

**(B) Supports.** Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4<sup>1</sup>/<sub>2</sub> ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. *(See Figure 26)*

\* *See NFPA 70-2005 for exceptions.*

## Article 358 Electrical Metallic Tubing - Type EMT

### 358.30 Securing and Supporting.

**(A) Securely Fastened.** EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box,

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device box, cabinet, conduit body, or other tubing termination. (See Figures 23 - 25)

*Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).*

*Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.*

- (B) Supports.** Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

## Article 362 Electrical Nonmetallic Tubing - Type ENT

### 362.30 Securing and Supporting.

- (A) Securely Fastened.** ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. (See Figures 23 - 25)

*Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaires (fixtures) shall be permitted without being secured.*

*Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.*

- (B) Supports.** Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Figure 23 - BG-8-12-S18-U-2-4

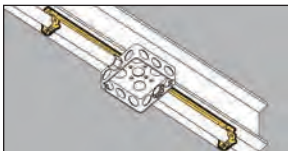


Figure 25 - BG-8-12-B1

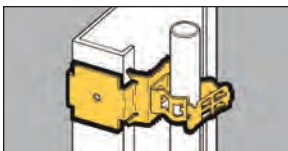


Figure 24 - BB38

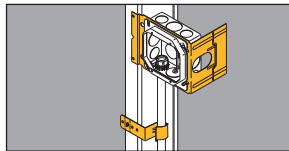
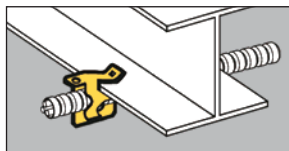


Figure 26 - BX4



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# NEC Requirements

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## Article 410 Luminaries (Lighting Fixtures), Lampholders, and Lamps

### 410.16 Means of Support.

**(A) Outlet Boxes.** Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).

**(C) Suspended Ceilings.** Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets.

**Listed** clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. (See Figures 27 - 31)

**410.104 Fastening.** Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. (See Figure 30)

### 422.18 Support of Ceiling-Suspended (Paddle) Fans

Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). (See Figure 32)

## Article 800 Communication Circuits

### 800.24 Mechanical Execution of Work.

Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.

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Figure 27 - BA15

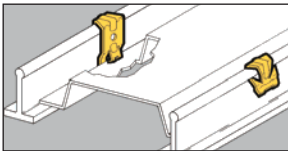


Figure 28 - BA1



Figure 29 - BA40

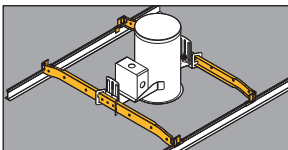


Figure 30 - BA 4-16 Series

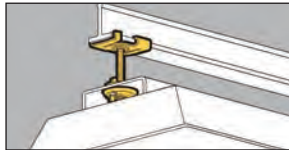


Figure 31 - BAX Series

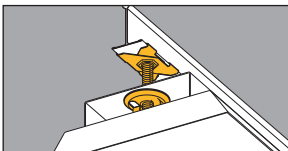
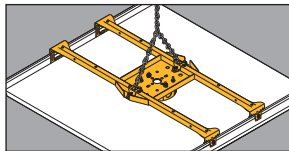


Figure 32 - BA50F



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## ANSI/TIA/EIA-569-A

### 4. Horizontal pathways and related spaces

#### 4.6 Ceiling pathway

##### 4.6.2 Design guidelines

**4.6.2.1 Planning.** The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.

**4.6.2.2 Clearance.** A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. (See Figure 33)

##### 4.6.5 Cable support

**4.6.5.1** Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. (See Figures 33 & 34)

**4.6.5.2** A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. (See Figures 33 & 34)

### NOTES

- 1) A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.
- 2) If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.

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Figure 33 - BCHxx-A28

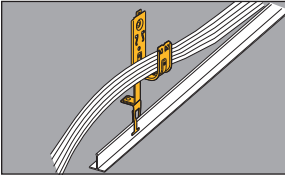
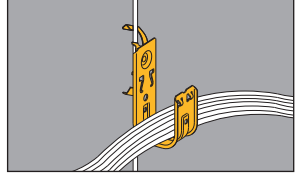


Figure 34 - BCHxx-W2



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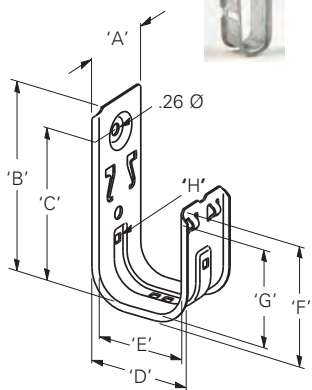
# Reference Data

## Cable Hook Technical Data

### Single-Sided Single-Tier Cable Fasteners

Hook Size	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
In.	In.	In.	In.	In.	In.	In.	In.	In.
3/4	.88	3.18	2.68	1.00	.75	1.69	.94	–
1 <sup>5</sup> / <sub>16</sub>	1.62	3.62	2.81	1.69	1.31	2.00	1.37	.20
2	1.62	4.31	3.50	2.38	2.00	2.69	2.06	.20
4	2.00	6.81	5.56	4.55	4.00	4.84	4.06	.31

BCH12

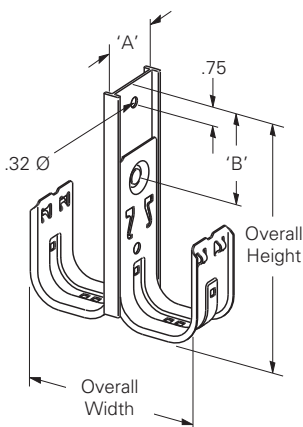


### Load Capacity

Cable Hook Size	Static Load Capacity (S.F. 3)	
	Galvanized & Stainless Steel	Lbs.
In.		
3/4	30	
1 <sup>5</sup> / <sub>16</sub>	30	
2	30	
4	30	

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

### Double-Sided Single-Tier Cable Fasteners

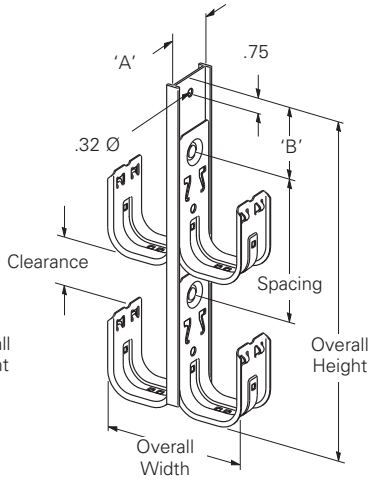
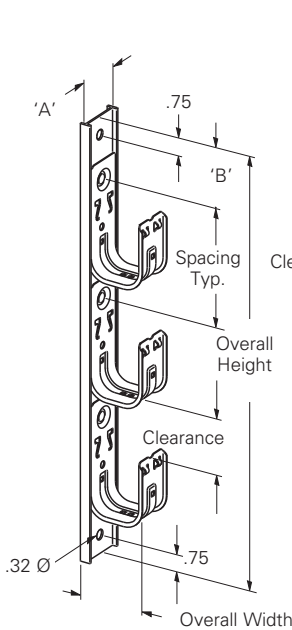


Hook Size	'A'	'B'	Overall Height	Overall Width
In.	In.	In.	In.	In.
1 <sup>5</sup> / <sub>16</sub>	1.90	2.50	5.50	3.47
2	1.90	2.50	6.19	4.85
4	2.38	2.94	9.00	9.19

## Cable Hook Technical Data

### Double-Sided Double-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
15/16	1.90	2.50	3.75	1.94	9.25	3.47
2	1.90	2.50	4.75	2.25	10.94	4.85
4	2.38	2.94	9.38	4.50	18.20	9.19



### Single-Sided Multi-Tier Cable Fasteners (2 thru 6 Tier)

Hook Size In.	No. Tiers In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
15/16	2	1.90	2.50	3.75	1.94	11.00	1.96
	3	1.90	2.50	3.75	1.94	14.75	1.96
	4	1.90	2.50	3.75	1.94	18.50	1.96
	5	1.90	2.50	3.75	1.94	22.25	1.96
	6	1.90	2.50	3.75	1.94	26.00	1.96
2	2	1.90	2.50	4.75	2.25	12.75	2.66
	3	1.90	2.50	4.75	2.25	17.50	2.66
	4	1.90	2.50	4.75	2.25	22.25	2.66
	5	1.90	2.50	4.75	2.25	27.00	2.66
	6	1.90	2.50	4.75	2.25	31.75	2.66
4	2	2.38	2.94	8.75	3.19	19.33	4.82
	3	2.38	2.94	8.75	3.19	28.08	4.82



# Reference Data

## Rigid Steel Conduit (Heavy Wall Conduit)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
3/8	0.675	0.493	51.5	65.1
1/2	0.840	0.632	79.0	101.1
3/4	1.050	0.836	105.0	145.8
1	1.315	1.063	153.0	219.3
1 1/4	1.660	1.394	201.0	318.3
1 1/2	1.900	1.624	249.0	408.8
2	2.375	2.083	332.0	593.8
2 1/2	2.875	2.489	527.0	901.0
3	3.500	3.090	682.0	1259.0
3 1/2	4.000	3.570	831.0	1604.0
4	4.500	4.050	972.0	1967.0

## Intermediate Metal Conduit (IMC)

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
1/2	0.815	0.745	60.0	82.1
3/4	1.029	0.954	82.0	122.8
1	1.290	1.205	116.0	182.3
1 1/4	1.638	1.553	150.0	267.3
1 1/2	1.883	1.793	182.0	341.8
2	2.360	2.266	242.0	503.8
2 1/2	2.857	2.727	401.0	775.0
3	3.476	3.346	493.0	1069.0
3 1/2	3.971	3.841	573.0	1346.0
4	4.466	4.336	638.0	1632.0

Dimensions taken from ANSI C80.3 - 1977.

\* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

## Electrical Metallic Tubing (EMT) - Thinwall Conduit

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
3/8	0.577	0.493	23.0	36.6
1/2	0.706	0.622	28.5	50.6
3/4	0.922	0.824	43.5	84.3
1	1.163	1.049	64.0	130.3
1 1/4	1.510	1.380	95.0	212.3
1 1/2	1.740	1.610	110.0	269.8
2	2.197	2.067	140.0	401.8
2 1/2	2.875	2.731	205.0	579.0
3	3.500	3.356	250.0	826.3
3 1/2	4.000	3.834	325.0	1098.0
4	4.500	4.334	370.0	1364.0

## Rigid Aluminum Conduit

Nominal Conduit Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight Per 100 Ft. With Couplings Attached	Weight of Conduit and Conductors Per 100 Ft.*
In.	In.	In.	Lbs.	Lbs.
1/2	0.840	0.632	27.4	49.5
3/4	1.050	0.836	36.4	77.2
1	1.315	1.063	53.0	119.3
1 1/4	1.660	1.394	69.6	186.9
1 1/2	1.900	1.624	82.2	242.0
2	2.375	2.083	115.7	377.5
2 1/2	2.875	2.489	182.5	556.5
3	3.500	3.090	238.9	815.2
3 1/2	4.000	3.570	287.7	1061.0
4	4.500	4.050	340.0	1334.0
5	5.563	5.073	465.4	2028.0
6	6.625	6.093	612.5	2870.0

Dimensions taken from ANSI C80.3 - 1977.

\* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

# Reference Data

## Schedule 40 PVC Plastic Pipe

Nominal Pipe Size	Outside Diameter	Wall Thickness	Weight of Pipe	Weight of Water
In.	In.	In.	Lbs. Per Ft.	Lbs. Per Ft.
1/8	0.405	0.068	0.04	0.02
1/4	0.540	0.088	0.07	0.04
3/8	0.675	0.091	0.10	0.08
1/2	0.840	0.109	0.15	0.10
3/4	1.050	0.113	0.20	0.20
1	1.315	0.133	0.30	0.40
1 1/4	1.660	0.140	0.40	0.60
1 1/2	1.900	0.145	0.50	0.90
2	2.375	0.155	0.60	1.40
2 1/2	2.875	0.203	1.00	2.10
3	3.500	0.216	1.30	3.20
3 1/2	4.000	0.226	1.60	4.30
4	4.500	0.237	1.90	5.50

## Electrical Non-Metallic Tubing (ENT)

Nominal Size	Outside Diameter	Nominal Inside Diameter	Minimum Weight of Conduit	Weight of Conduit and Conductors
In.	In.	In.	Lbs. Per 100 Ft.	Lbs. Per 100 Ft.
1/2	0.840	0.560	11.0	33.1
3/4	1.050	0.760	14.0	54.8
1	1.315	1.000	20.0	86.3
1 1/4	1.660	1.402	19.0	136.3
1 1/2	1.990	1.554	27.0	186.8
2	2.375	2.030	32.0	261.8

## All Threaded Rod (ATR)

Thread Size	Root Area	Design Load (SF=5)
1/4"-20	0.027 in. <sup>2</sup>	240 lbs.
5/16"-18	0.045 in. <sup>2</sup>	400 lbs.
3/8"-16	0.068 in. <sup>2</sup>	610 lbs.

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.

## MC -- Metal Clad Cable Specifications

Trade Size	Grounding Conductor AWG	Armor O.D. In.	Approximate Wt. Per 100 Ft. Lbs.
14-2 Solid	14	0.470	17.5
14-3 Solid	14	0.480	20.5
14-4 Solid	14	0.510	23.0
12-2 Solid	12	0.495	21.5
12-3 Solid	12	0.530	25.5
12-4 Solid	12	0.565	29.5
10-2 Solid	10	0.560	28.5
10-3 Solid	10	0.600	34.0
10-4 Solid	10	0.645	39.5
8-2 Stranded	10	0.710	45.0
8-3 Stranded	10	0.770	54.5
8-4 Stranded	10	0.835	64.5
6-2 Stranded	8	0.795	59.0
6-3 Stranded	8	0.865	72.0
6-4 Stranded	8	0.945	86.0
4-2 Stranded	8	0.945	78.5
4-3 Stranded	8	1.035	98.5
4-4 Stranded	8	1.135	119.5
3-3 Stranded	6	1.025	107.0
3-4 Stranded	6	1.120	126.0
2-2 Stranded	6	1.075	104.5
2-3 Stranded	6	1.180	134.0
2-4 Stranded	6	1.295	164.0

## Category 5 Cable

Pair Count	AWG Size	O.D. In.	Weight Lbs. Per 100 Ft.
2	24	0.16	1.3
3	24	0.18	1.7
4	24	0.20	2.1
6	24	0.27	3.5
8	24	0.30	4.2
25	24	0.50	13.0

# Reference Data

## Type NM -- Non-Metallic Sheathed Cable

Size AWG	Number of Strands	Ground Wire Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
Without Ground Wire				
14-2	Solid	–	.17 x .37	5.3
12-2	Solid	–	.19 x .40	7.0
10-2	Solid	–	.22 x .45	10.1
14-3	Solid	–	0.295	8.2
12-3	Solid	–	0.332	10.9
10-3	Solid	–	0.396	15.7
8-3	7	–	0.538	27.8
6-3	7	–	0.611	42.2
With Ground Wire				
14-2	Solid	14	.17 x .37	6.4
12-2	Solid	12	.19 x .41	9.0
10-2	Solid	10	.22 x .49	13.3
8-2	7	10	.28 x .61	21.5
6-2	7	10	.32 x .73	31.3
14-3	Solid	14	.322	9.3
12-3	Solid	12	.363	12.9
10-3	Solid	10	.436	18.7
14-4	Solid	14	.450	11.6
12-4	Solid	12	.490	16.1
10-4	Solid	10	.550	23.3
8-3	7	10	.552	30.5
6-3	7	10	.611	45.0
4-3	7	8	.821	66.4
2-3	7	8	.946	93.0

## Type THHN -- Insulated Single Conductor Building Wire

Trade Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14 AWG	0.11	1.7
12 AWG	0.13	2.5
10 AWG	0.16	4.0
8 AWG	0.22	6.5
6 AWG	0.25	9.7
4 AWG	0.32	15.5
3 AWG	0.35	19.1
2 AWG	0.38	23.6
1 AWG	0.45	30.4
1/0 AWG	0.49	37.5

## AC -- Armored Cable Specifications

Trade Size	Armor O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14-2 Solid	0.433	18.0
14-3 Solid	0.453	20.0
14-4 Solid	0.486	25.0
12-2 Solid	0.467	21.0
12-3 Solid	0.489	24.5
12-4 Solid	0.520	29.0
10-2 Solid	0.476	25.0
10-3 Solid	0.500	29.5
10-4 Solid	0.541	38.0
8-2 Solid	0.570	34.5
8-3 Solid	0.601	41.5
8-4 Solid	0.654	48.0
8-2 Stranded	0.604	34.5
8-3 Stranded	0.637	42.0
8-4 Stranded	0.695	51.5
6-2 Stranded	0.700	44.5
6-3 Stranded	0.739	56.0
6-4 Stranded	0.807	68.5
4-2 Stranded	0.836	62.0
4-3 Stranded	0.885	80.0
4-4 Stranded	0.971	99.5
3-3 Stranded	0.990	94.0
3-4 Stranded	1.085	118.0
2-2 Stranded	0.956	81.5
2-3 Stranded	1.014	109.5
2-4 Stranded	1.115	138.0

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