

# Alflex™

## Type SWA Standard Wall Aluminum Flexible Metal Conduit



Aluminum Flexible Metal Conduit. High Strength Aluminum Alloy Strip. UL and CSA Listed.

## APPLICATIONS

Alflex™ Type SWA (Standard Wall Aluminum) Flexible Metal Conduit is suitable for the following installations:

- Environmental air-handling spaces per NEC 300.22(C)
- Power and lighting branch circuit conductors and cables for connecting receptacles, luminaires, equipment, office partitions, etc.
- Metal raceway for wires and cables per NEC 348
- Motor feeder, branch, and control circuit conductors and cables
- Class 1, Class 2, Class 3 Remote-control, signaling, and power-limited circuit conductors and cables
- Fire alarm system conductors and cables of power-limited or non-power-limited fire alarm circuits
- Voice, data, communications and video cables including CATV and optical fiber cables
- Concealed or exposed installations per NEC 348 and the applicable NEC provisions
- Elevators, hoistways, and escalators per NEC 620.21
- As a grounding conductor for lengths up to 6 feet (20A max) as per NEC 250.118(5)
- Electric signs and outline lighting per NEC 600.7, 600.31 (1000 volts or less), and 600.32 (>1000 volts)
- Listed wired fixtures per NEC 410.77(C)
- Raised floors for connection of information technology per NEC 645.5(D)(2) and 645.5(D)
- Places of assembly and theaters per NEC 518 and 520
- Cranes and hoists per NEC 610.11(C)
- Hazardous location, Class 1, Div. 2, for flexible connectors only per NEC 501.104(B)(2) & 501.30(B)
- UL 1, 2, & 3 Hour Through-Penetration Firestop Systems: C-AJ-1462, C-AJ-1463, C-AJ-1464, W-L-1308, and W-L-13099



## STANDARDS & REFERENCES

Alflex™ Type SWA (Standard Wall Aluminum) Flexible Metal Conduit meets or exceeds the following requirements:

- UL Listed per UL 1, Standard for Safety for Flexible Metal Conduit, ANSI/UL-1
- CSA Listed per CSA 22.2 No. 56 per Canadian Electrical Code C22.1 Section 12-1000
- Meets federal specification WW-C-566C
- NFPA 70 (National Electrical Code), Article 348 - Type FMC (flexible metal conduit)
- REACH/RoHS-2 (Chemical Limit) Compliant

## CONSTRUCTION

The Power of Connections.™



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One Southwire Drive, Carrollton, GA 30119, USA

Alflex™ Type SWA is manufactured with a lightweight, high strength aluminum alloy. Metal strip is helically formed into continuously interlocked flexible metal conduit that can withstand impact and crushing forces.

TRADE SIZE (INCHES)	STOCK NUMBER			DIAMETER		WEIGHT (LBS/100')	MINIMUM BEND RADIUS
				INNER (MIN/MAX)	OUTER (MIN/MAX)		
1/2	55-28-70-01 (100')	55-28-70-06 (500')	55-28-70-05 (1000')	.625/.645	.86/.92	16	3
3/4	55-28-71-01 (100')	55-28-70-06 (500')	55-28-71-05 (1000')	.812/.835	1.045/1.105	21	4

Trade sizes 3/8" carries RWA UL and CSA Listings.  
Minimum bend radius based on NEC Chapter 9, Table 2 (other bends).

## FEATURES

- Provides mechanical protection for conductors and cable
- For use with listed connectors intended for NEC Type FMC (Flexible Metal Conduit)
- Smooth interior for easy wire pulling
- High strength aluminum alloy construction
- Superior corrosion resistance
- Built in flexibility for simplified positioning

## ONLINE CERTIFICATIONS & TOOLS

- UL Online Certifications Directory ( [www.ul.com](http://www.ul.com) ) UL Guide Information - Flexible Metal Conduit (DXUZ)
- CSA Online Certifications Directory ( [www.csa.ca](http://www.csa.ca) ) CSA Product Information - Flexible Metal Conduit (1811-01)

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