ELLIOTT ELECTRIC SUPPLY
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2310 N. Stallings Dr.
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Phone: 9365697941
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SER101000 SER 1/0-1/0-1/0-2 ALU 1000'

KING WIRE INC.

Catalog Number	SER101000
Manufacturer	KING WIRE INC.
Description	Service Entrance Cable, Stranded, 10 Strands, 1/0 AWG Conductor Size, Aluminum Conductor Material, PVC Jacket Material, Polyethylene (XLPE) Insulation Material, 600 V, 100 A (60°C);120 A (75°C);135 A (90°C), Gray, 3 Conductors, 1000 ft Overall Length, 1168 mil Outside Diameter, +90 °C Operating Temperature, 540 lb/mft
Weight per unit	0.5380 (lbs/each)
Product Category	Aluminum-Ser /Ns-1/Ns-2

Features

Conductor Size	(3) 1/0 AWG
Current Rating	100 AMPERE (60 DEG C), 120 AMPERE (75 DEG C), 135 AMPERE (90 DEG C)
Ground Conductor Size	2 AWG
Ground Type	WITH GROUND WIRE
Stranding	10 STRANDS
Voltage Rating	600 V

Material, Color, and Finish

Jacket Material	GRAY PVC

Dimensions and Weight

Length	1000 ft
Outer Diameter	1168 MIL

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Descriptions

Additional Information	RoHS Compatible; Applicable Standard NEC/NFPA 70, Federal Specification A-A-59544
Commodity Description	ALUMINUM SE CABLE-SER / NS-1 / NS-2
Description	SER 1/0-1/0-1/0-2 ALU 1000'
Long Description	SER 1/0-1/0-1/0-2 AL SERVICE ENTRANCE CABLE, SER TYPE; 1000 FT; 1168 MIL OUTER DIAMETER; ALUMINUM CONDUCTOR MATERIAL; UL 44/83/854 APPROVAL; 600 V VOLTAGE RATING; 100 AMPERE (60 DEG C), 120 AMPERE (75 DEG C), 135 AMPERE (90 DEG C) CURRENT RATING; 90 DEG C TEMPERATURE RATING
Extra Long Description	SER TYPE; 1000 FT; 1168 MIL OUTER DIAMETER; ALUMINUM CONDUCTOR MATERIAL; UL 44/83/854 APPROVAL; 600 V VOLTAGE RATING; 100 AMPERE (60 DEG C), 120 AMPERE (75 DEG C), 135 AMPERE (90 DEG C) CURRENT RATING; 90 DEG C TEMPERATURE RATING; WITH GROUND WIRE; (3) 1/0 AWG CONDUCTOR SIZE; GRAY PVC JACKET MATERIAL; REEL PACKAGE TYPE; 10 STRANDS STRANDING; 2 AWG GROUND CONDUCTOR SIZE; ALUMAFLEX[R] BRAND; ROHS COMPATIBLE; APPLICABLE STANDARD NEC/NFPA 70, FEDERAL SPECIFICATION A-A-59544; SE MODEL

Manufacturer Information

Brand	AlumaFlex[R] Southwire
GTIN	00032886584817
Model	SE
UPC	803940

Taxonomies, Classifications, and Categories

Category Description	SERVICE ENTRANCE - SEU & SER
Type	SER

Availability

Minimum Qty	1000

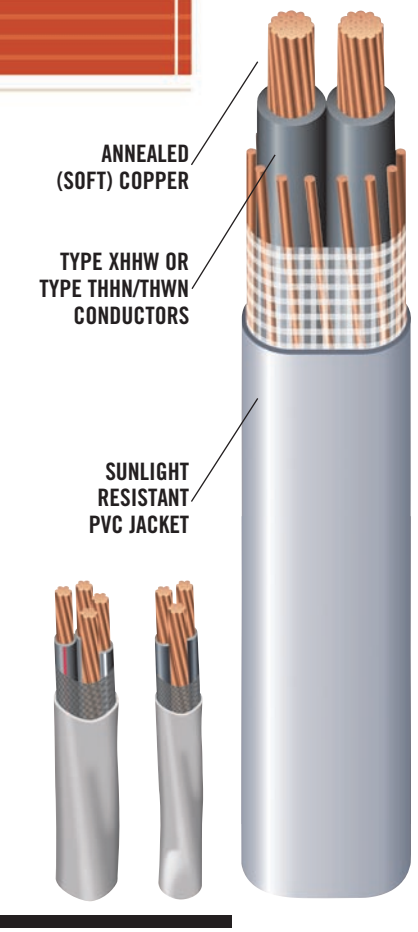
Packaging

Carton	1000
Package Type	Reel
Weight Per Each	0.5380 (lbs/each)

Uses, Certifications, and Standards

Approval	UL 44/83/854
Temperature Rating	90 DEG C

SEU/SER/SE



Service Entrance Cable, Type SE, Style U

600 Volt

Copper Conductors Individual Conductors

Rated XHHW-2 or THHN/THWN

Copper Concentric Neutral

Jacket and Individual Conductors Sunlight Resistant

APPLICATIONS

Suitable for use as follows:

Southwire Type SE, service entrance cable is primarily used to convey power from the service drop to the meter base and from the meter base to the distribution panelboard; however, the cable may be used in all applications where Type SE cable is permitted. SER may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating is 600 volts.

STANDARDS & REFERENCES

Southwire Type SE cable meets or exceeds UL Standard 44 for XHHW-2 conductors or UL 83 for THHN/THWN conductors, UL Standard 854, Federal Specification A-A-59544, and requirements of the National Electrical Code[1].

CONSTRUCTION

Southwire Type cable is constructed with sunlight resistant Type XHHW-2 conductors or Type THHN/THWN conductors. Copper conductors are annealed (soft) copper. Cable assembly plus reinforcement tape are jacketed with sunlight resistant gray polyvinyl chloride (PVC). Available as 1 conductor with a concentric ground, 2 conductor with a round or concentric ground, or 3 conductor with a bare ground. SE cable is jacketed with gray sunlight resistant polyvinyl chloride (PVC).

SPECIFICATIONS

Cable shall be UL-listed Type SE, Style U, suitable for operation at 600 volts or less in all installations as specified in the National Electrical Code. Conductors shall be annealed copper, Type XHHW-2 or Type THHN/THWN, weather resistant PVC jacketed, as manufactured by Southwire Company or approved equal.

[1] 2005 Edition.

WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR	COPPER								
SIZE/CONST. (AWG)	STRANDING		NOMINAL O.D. (mils)	ALLOWABLE AMPACITIES*				APPROX. NET WEIGHT PER 1000' (lbs)	STANDARD PACKAGE
	PHASE CONDUCTORS & NEUTRAL	EQUIPMENT GROUND CONDUCTOR		60°C	75°C	90°C	DWELLING		
SER TWO CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "THREE CONDUCTOR")									
8-8-8	7	--	586	40	50	55	-	236	B
6-6-6	7	--	669	55	65	75	-	342	B
4-4-4	7	--	771	70	85	95	100	499	B
3-3-3	7	--	829	85	100	110	110	611	B
2-2-2	7	--	896	95	115	130	125	752	B
1-1-1	19	--	1021	110	130	150	150	947	C
1/0-1/0-1/0	19	--	1106	125	150	170	175	1168	C
2/0-2/0-2/0	19	--	1201	145	175	195	200	1444	C
3/0-3/0-3/0	19	--	1309	165	200	225	225	1791	C
4/0-4/0-4/0	19	--	1430	195	230	260	250	2226	C
SER THREE CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "FOUR CONDUCTOR")									
8-8-8-8	7	7	645	40	50	55	-	291	B
6-6-6-6	7	7	738	55	65	75	-	428	B
4-4-4-6	7	7	852	70	85	95	100	586	B
3-3-3-5	7	7	917	85	100	110	110	720	B
2-2-2-4	7	7	992	95	115	130	125	888	B
1-1-1-3	19	7	1132	110	130	150	150	1118	C
1/0-1/0-1/0-2	19	7	1226	125	150	170	175	1382	C
2/0-2/0-2/0-1	19	19	1332	145	175	195	200	1714	C
3/0-3/0-3/0-1/0	19	19	1453	165	200	225	225	2130	C
4/0-4/0-4/0-2/0	19	19	1588	195	230	260	250	2651	C

Table values reflect Type XHHW-2 conductors.
*Allowable Ampacities:
Allowable ampacities shown are for general use as specified by the National Electrical Code, 2008 Edition, section 310.15.
60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.
75 °C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90°C – Wet or dry locations. For ampacity derating purposes.
Dwelling – For dwelling units, conductors shall be permitted at listed ampacities as 120/240-volt, 3-wire, single-phase services and feeders.

STANDARD PACKAGE CODE:

B – 1000 ft. reel
C – 500 ft. reel

SEU/SER/SE

WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR	COPPER								
SIZE/CONST. (AWG)	STRANDING		NOMINAL O.D. (mils)	ALLOWABLE AMPACITIES*				APPROX. NET WEIGHT PER 1000' (lbs)	STANDARD PACKAGE
	PHASE CONDUCTORS	BARE GROUND		60°C	75°C	90°C	DWELLING		
SEU ONE CONDUCTOR WITH A BARE CONCENTRIC GROUND (FORMERLY REFERRED TO AS "TWO CONDUCTOR")									
8-8	7	8	400	40	50	55	-	146	BH
6-6	7	12	435	55	65	75	-	210	BH
4-4	7	12	506	70	85	95	-	314	BI
2-2	7	15	580	95	115	130	-	485	BJ
SEU TWO CONDUCTOR WITH A BARE CONCENTRIC GROUND (FORMERLY REFERRED TO AS THREE CONDUCTOR)									
10-10-10	1	12	419 X 270	30	30	30	-	126	BH
8-8-8	7	8	57 X 366	40	50	55	-	210	BH
6-6-6	7	12	650 X 402	55	65	75	-	307	BJ
4-4-4	7	12	815 X 506	70	85	95	100	471	BJ
3-3-3	7	12	874 X 534	85	100	110	110	582	BJ
2-2-2	7	15	935 X 565	95	115	130	125	717	BL
1-1-1	19	14	1084 X 650	110	130	150	150	903	CL
1/0-1/0-1/0	19	18	1162 X 689	125	150	170	175	1121	CM
2/0-2/0-2/0	19	18	1266 X 749	145	175	195	200	1377	CM
3/0-3/0-3/0	19	14	1412 X 845	165	200	225	225	1711	CM
4/0-4/0-4/0	19	18	1524 X 901	195	230	260	250	2145	CM
SEU TWO CONDUCTOR WITH A BARE CONCENTRIC GROND (FORMERLY REFERRED TO AS "THREE CONDUCTOR") (REDUCED NEUTRAL)									
6-6-8	7	8	650 X 402	55	65	75	-	280	BI
4-4-6	7	12	781 X 468	70	85	95	100	419	BJ
3-3-5	7	15	834 X 494	85	100	110	110	514	BJ
2-2-4	7	12	920 X 549	95	115	130	125	638	BL

Table values reflect Type XHHW-2 conductors
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60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 through 1 AWG conductors.
75°C – When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90°C – Wet or dry locations. For ampacity derating purposes
Dwelling – For dwelling units, conductors shall be permitted at listed ampacities as 120/240-volt, 3-wire, single-phase services and feeders.

STANDARD PACKAGE CODE:

B – 1000 ft. reel
C – 500 ft. reel
H – 250 ft. reel
I – 200 ft. coil
J – 150 ft. coil
L – 100 ft. coil
M– 50 ft. coil