



ELLIOTT ELECTRIC SUPPLY

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3804 South Street
75964-7263, TX Nacogdoches
Phone: 936-569-7941
Fax: 936-560-4685



SER24500 2-2-2-4 Ser Cable-500'

Southwire Company

Catalog Number	SER24500
Manufacturer	Southwire Company
Description	Service Entrance Cable, Ser Type; 500 FT; 992 Mil Outer Diameter; Annealed Copper Conductor Material; UI 44/83/854 Approval; 600 V Voltage Rating; 95 Ampere (60 Deg C), 115 Ampere (75 Deg C), 130 Ampere (90 Deg C) Current Rating
Weight per unit	0.8910 (lbs/ft)
Product Category	Ser

Features

Conductor Size	(3) 2 AWG
Current Rating	95 AMPERE (60 DEG C), 115 AMPERE (75 DEG C), 130 AMPERE (90 DEG C)
Ground Conductor Size	4 AWG
Ground Type	WITH GROUND WIRE
Stranding	7 STRANDS
Voltage Rating	600 V

Material, Color, and Finish

Conductor Material	ANNEALED COPPER
Jacket Material	GRAY PVC

Dimensions and Weight

Length	500 FT
Length in ft	500 W
Outer Diameter	992 MIL

Descriptions

Additional Information	RoHS Compatible; Applicable Standard NEC/NFPA 70, Federal Specification A-A-59544
Commodity Description	SER - COPPER BUILDING WIRE
Description	2-2-2-4 SER CABLE-500'
Long Description	SERVICE ENTRANCE CABLE, SER TYPE; 500 FT; 992 MIL OUTER DIAMETER; ANNEALED COPPER CONDUCTOR MATERIAL; UL 44/83/854 APPROVAL; 600 V VOLTAGE RATING; 95 AMPERE (60 DEG C), 115 AMPERE (75 DEG C), 130 AMPERE (90 DEG C) CURRENT RATING
Product Type	Service Entrance Cable

Manufacturer Information

Brand	Copper
GTIN	00032886271205
Manufacturers Part Number	26701302
UPC	032886271205



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Taxonomies, Classifications, and Categories

Category Description	SERVICE ENTRANCE - SEU & SER
Type	SER

Availability

minimum qty	500
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Packaging

Carton	500
Package Type	REEL
Weight	888 LB/MFT
Weight Per foot	0.891

Uses, Certifications, and Standards

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

Copper Service Entrance (SE) Cable

Service Entrance Cable, Type SE, Style SER and SE Style U. Service Entrance Cable, 600 Volt. Individual Conductors Rated XHHW-2 or THHN/THWN. Jacket and Individual Conductors Sunlight Resistant.

APPLICATIONS

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.

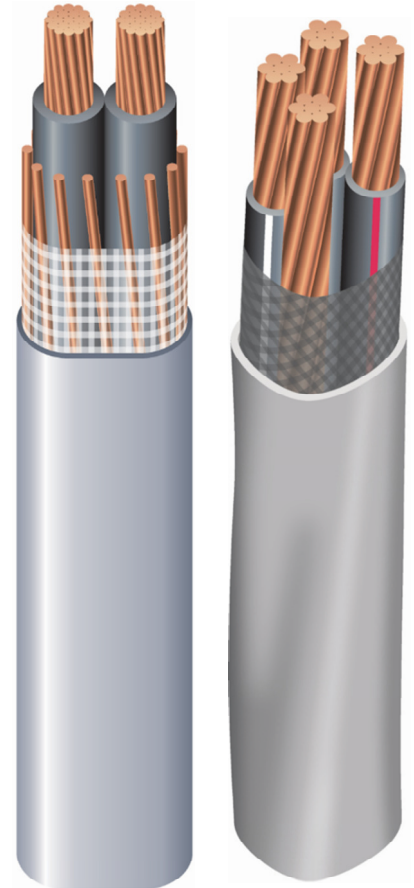
STANDARDS & REFERENCES

Southwire® Type SE cable complies with:

- ASTM- All applicable standards
- UL Standard 44 for XHHW-2 conductors
- UL Standard 83 for THHN/THWN conductors
- UL Standard 854
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70. 2011 Edition
- RoHS/ REACH

CONSTRUCTION

Southwire® Type SE 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).



Conductor Size/Const. AWG or kcmil	Stranding		Nominal O.D. (Mils)	Allowable Ampacities				Approximate Net Weight Per 1000' (Lbs)	Standard Package
	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75°C	90°C	Dwelling		
SER Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor")									
8-8-8	7	--	586	40	50	55	--	231	B
6-6-6	7	--	669	55	65	75	--	338	B
4-4-4	7	--	764	70	85	95	100	498	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	948	C
1/0-1/0-1/0	19	--	1114	125	150	170	175	1169	C
2/0-2/0-2/0	19	--	1209	145	175	195	200	1444	C
3/0-3/0-3/0	19	--	1317	165	200	225	225	1792	C
4/0-4/0-4/0	19	--	1438	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	--	286	B
6-6-6-6	7	7	738	55	65	75	--	424	B
4-4-4-6	7	7	844	70	85	95	100	585	B
3-3-3-5	7	7	910	85	100	110	110	719	B
2-2-2-4	7	7	984	95	115	130	125	887	B
1-1-1-3	19	7	1132	110	130	150	150	1117	C
1/0-1/0-1/0-2	19	19	1235	125	150	170	175	1382	C
2/0-2/0-2/0-1	19	19	1342	145	175	195	200	1713	C
3/0-3/0-3/0-1/0	19	19	1462	165	200	225	225	2129	C
4/0-4/0-4/0-2/0	19	19	1598	195	230	260	250	2650	C
<p>Table values reflect XHHW-2 conductors</p> <p>Allowable ampacities shown are for general use as specified by the National Electrical Code, 2011 Edition, section 310.15 and 240.4(D).</p> <p>Unless the is marked for use at higher temperatures the conductor ampacities shall be limited to the following per NEC 110.14(C)</p> <p>60 °C When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors.</p> <p>75 °C When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.</p> <p>90 °C XHHW wet or Dry locations for ampacity adjustment purposes using NEC section 310.15</p> <p>For dwelling ampacity use section 310.15(B)(7)</p>									<p>Package Code:</p> <p>A-250'</p> <p>B-500'</p> <p>C-1,000'</p> <p>D-100'</p> <p>E- 150'</p>



Conductor Size/Const. AWG or kcmil	Stranding		Nominal O.D. (Mils)	Allowable Ampacities				Approximate Net Weight Per 1000' (Lbs)	Standard Package
	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75°C	90°C	Dwelling		
SEU Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor")									
10-10-10	1	12	428 X 283	30	30	30	--	127	ABC
8-8-8	7	8	587 X 380	40	50	60	--	211	ABC
6-6-6	7	12	659 X 416	55	65	75	--	308	BCE
4-4-4	7	12	815 X 506	70	85	95	100	471	BCE
3-3-3	7	12	883 X 548	85	100	110	110	583	B
2-2-2	7	15	994 X 578	95	115	130	125	718	BD
1-1-1	19	14	1093 X 664	110	130	150	150	904	B
1/0-1/0-1/0	19	18	1179 X 707	125	150	170	175	1123	BC
2/0-2/0-2/0	19	18	1283 X 767	145	175	195	200	1379	BC
3/0-3/0-3/0	19	14	1429 X 862	165	200	225	225	1712	BD
4/0-4/0-4/0	19	18	1541 X 918	195	230	260	250	2146	BC
SEU Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor") (Reduced Neutral)									
6-6-8	7	8	659 X 416	55	65	75	--	281	BC
4-4-6	7	12	790 X 481	70	85	95	100	420	BC
3-3-5	7	15	843 X 508	85	100	110	110	515	BC
2-2-4	7	12	929 X 563	95	115	130	125	639	BC
<p>Table values reflect XHHW-2 conductors</p> <p>Allowable ampacities shown are for general use as specified by the National Electrical Code, 2011 Edition, section 310.15 and 240.4(D).</p> <p>Unless the is marked for use at higher temperatures the conductor ampacities shall be limited to the following per NEC 110.14(C)</p> <p>60 °C When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors.</p> <p>75 °C When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.</p> <p>90 °C XHHW wet or Dry locations for ampacity adjustment purposes using NEC section 310.15</p> <p>For dwelling ampacity use section 310.15(B)(7)</p>									Package Code: A-250' B-500' C-1,000' D-100' E- 150'

RECOMMENDED SAMPLE SPECIFICATIONS:

Cable shall be UL-listed Type SE, suitable for operation at 600 volts. Conductors shall be annealed copper, weather resistant PVC jacketed, as manufactured by Southwire Company or approved equal.

Conductor	Stranding		
Size/Const. AWG or kcmil	Phase Conduct or & Neutral	Equipment Ground Conductor	Stock Numbers
SER Two Conductor With Bare Contentric Ground (Formerly referred to as "Three Conductor")			
8-8-8	7	--	Stock #: N/A
6-6-6	7	--	Stock #: N/A
4-4-4	7	--	Stock #: N/A
3-3-3	7	--	Stock #: N/A
2-2-2	7	--	Stock #: N/A
1-1-1	19	--	Stock #: N/A
1/0-1/0-1/0	19	--	Stock #: N/A
2/0-2/0-2/0	19	--	Stock #: N/A
3/0-3/0-3/0	19	--	Stock #: N/A
4/0-4/0-4/0	19	--	Stock #: N/A
SER Three Conductor With Bare Ground (Formerly referred to as "Four Conductor")			
8-8-8-8	7	7	Stock #: N/A
6-6-6-6	7	7	Stock #: 281642
4-4-4-6	7	7	Stock #: 263483
3-3-3-5	7	7	Stock #: 277574
2-2-2-4	7	7	Stock #: 267013
1-1-1-3	19	7	Stock #: 270827
1/0-1/0-1/0-2	19	19	Stock #: 277558
2/0-2/0-2/0-1	19	19	Stock #: 270835
3/0-3/0-3/0-1/0	19	19	Stock #: 270843
4/0-4/0-4/0-2/0	19	19	Stock #: 640359

Conductor	Stranding		
Size/Const. AWG or kcmil	Phase Conductor & Neutral	Equipment Ground Conductor	Stock Numbers
SEU Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor")			
10-10-10	1	12	Stock #: 130757
8-8-8	7	8	Stock #: 130765
6-6-6	7	12	Stock #: 130773
4-4-4	7	12	Stock #: 130781
3-3-3	7	12	Stock #: 130799
2-2-2	7	15	Stock #: 130807
1-1-1	19	14	Stock #: 218263
1/0-1/0-1/0	19	18	Stock #: 218271
2/0-2/0-2/0	19	18	Stock #: 218289
3/0-3/0-3/0	19	14	Stock #: 218297
4/0-4/0-4/0	19	18	Stock #: 218305
SEU Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor") (Reduced Neutral)			
6-6-8	7	8	Stock #: 130815
4-4-6	7	12	Stock #: 130823
3-3-5	7	15	Stock #: 130831
2-2-4	7	12	Stock #: 130849

