

# 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.

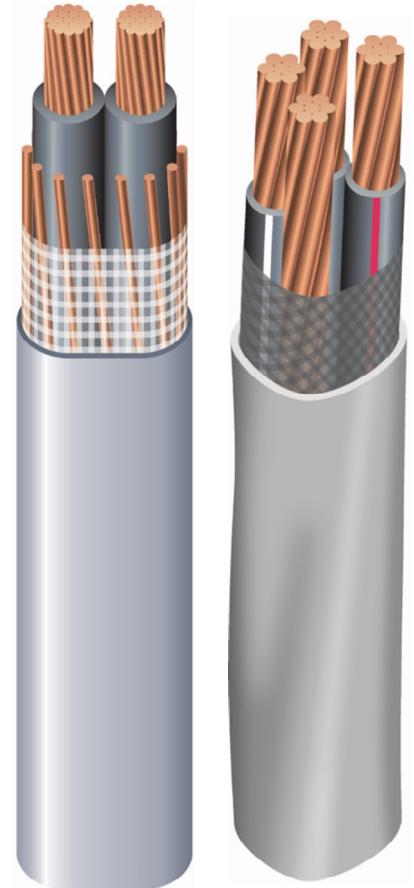
## STANDARDS & REFERENCES

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 Contentric 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
<b>SER Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor")</b>			
8-8-8	7	--	<b>Stock #: N/A</b>
6-6-6	7	--	<b>Stock #: N/A</b>
4-4-4	7	--	<b>Stock #: N/A</b>
3-3-3	7	--	<b>Stock #: N/A</b>
2-2-2	7	--	<b>Stock #: N/A</b>
1-1-1	19	--	<b>Stock #: N/A</b>
1/0-1/0-1/0	19	--	<b>Stock #: N/A</b>
2/0-2/0-2/0	19	--	<b>Stock #: N/A</b>
3/0-3/0-3/0	19	--	<b>Stock #: N/A</b>
4/0-4/0-4/0	19	--	<b>Stock #: N/A</b>
<b>SER Three Conductor With Bare Ground (Formerly referred to as "Four Conductor")</b>			
8-8-8-8	7	7	<b>Stock #: N/A</b>
6-6-6-6	7	7	<b>Stock #: 281642</b>
4-4-4-6	7	7	<b>Stock #: 263483</b>
3-3-3-5	7	7	<b>Stock #: 277574</b>
2-2-2-4	7	7	<b>Stock #: 267013</b>
1-1-1-3	19	7	<b>Stock #: 270827</b>
1/0-1/0-1/0-2	19	19	<b>Stock #: 277558</b>
2/0-2/0-2/0-1	19	19	<b>Stock #: 270835</b>
3/0-3/0-3/0-1/0	19	19	<b>Stock #: 270843</b>
4/0-4/0-4/0-2/0	19	19	<b>Stock #: 640359</b>

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

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