

# Aluminum SE Cable

Type SE, Style SER and SE, Style U.  
 Service Entrance Cable, 600 Volt.  
 AlumaFlex™ Aluminum Alloy (AA-8176) Conductors.  
 Individual Conductors Rated XHHW-2 or THHN/THWN.  
 AlumaFlex™ Aluminum Alloy Neutral  
 Jacket and Individual Conductors Sunlight Resistant.



## APPLICATIONS

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

## SPECIFICATIONS

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

## CONSTRUCTION

Southwire Type SE cable is constructed with sunlight resistant Type XHHW-2 conductors or Type THHN/THWN conductors. Aluminum conductors are AlumaFlex™ AA-8000 series aluminum alloy, compact stranded. Southwire Type SE, Style SER cable assembly plus reinforcement tape are jacketed with gray sunlight resistant polyvinyl chloride (PVC). Available as 2 conductor (2 insulated phase conductors, bare ground), 3 conductor (2 insulated phase conductors, insulated neutral, bare equipment ground), or 4 conductor (3 insulated phase conductors, insulated neutral, bare equipment ground). Southwire Type SE, Style U Cable assembly plus an overall concentrically applied neutral and reinforcement tape are jacketed with gray sunlight resistant polyvinyl chloride (PVC).

# AL SE, SER, and SEU

Conductor Size/Const. (AWG or kcmil)	Stranding*		Nominal O.D. (mils)	Allowable Ampacities+				Approx. Net Weight per 1000' (lbs)	Standard Package
	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75°C	90°C	Dwelling		
SER Aluminum Two Conductor With Bare Ground (Formerly referred to as "EZ-SER")									
6-6-6	7	--	650	40	50	60	--	150	B
4-4-4	7	--	745	55	65	75	--	203	B
4-4-6	7	--	745	55	65	75	--	203	B
2-2-2	7	--	864	75	90	100	100	290	B
2-2-4	7	--	864	75	90	100	100	290	B
2/0-2/0-1	12	--	1140	115	135	150	150	527	B
2/0-2/0-2/0	12	--	1140	115	135	150	150	527	B
4/0-4/0-2/0	19	--	1354	150	180	205	200	784	C
4/0-4/0-4/0	19	--	1354	150	180	205	200	784	C
SER Three Conductor With Bare Ground (Formerly referred to as "Four Conductor")									
8-8-8-8	1	1	612	30	40	45	--	136	B
6-6-6-6	7	7	717	40	50	60	--	196	B
4-4-4-6	7	7	823	55	65	75	--	252	B
2-2-2-4	7	7	956	75	90	100	100	359	B
1-1-1-3	8	7	1079	85	100	115	110	449	C
1/0-1/0-1/0-2	10	1	1168	100	120	135	125	540	C
2/0-2/0-2/0-1	12	1	1264	115	135	150	150	653	C
3/0-3/0-3/0-1/0	16	1	1378	130	155	175	175	793	C
4/0-4/0-4/0-2/0	19	1	1503	150	180	205	200	968	C
250-250-250-3/0	22	1	1576	170	205	230	225	--	C
SER Four Conductor With Bare Ground (Formerly referred to as "Five Conductor")									
2-2-2-2-4	6	7	1059	75	90	100	100	452	B
2/0-2/0-2/0-2/0-1	12	1	1404	115	135	150	150	827	C
4/0-4/0-4/0-4/0-2/0	19	1	1672	150	180	205	200	1228	C
250-250-250-250-3/0	22	1	1847	170	205	230	225	--	C
SEU Two Conductor With Bare Concentric Ground (Formerly referred to as "Three Conductor")									
6-6-6	7	8	430 X 687	40	50	60	--	145	H
4-4-4	7	12	499 X 800	55	65	75	--	198	I
4-4-6	7	15	474 X 775	55	65	75	--	181	I
2-2-2	7	14	569 X 925	75	90	100	100	283	I
2-2-4	7	18	554 X 910	75	90	100	100	259	I
2/0-2/0-2/0	18	18	736 X 1221	115	135	150	150	514	CJ
2/0-2/0-1	18	14	720 X 1205	115	135	150	150	468	CJ



greenSpec™  
RoHS Compliant



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# AL SE, SER, and SEU

4/0-4/0-4/0	18	18	878 X 1462	150	180	205	205	765	CL
4/0-4/0-2/0	18	18	835 X 1419	150	180	205	205	691	CL

Table values reflect 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. See NEC Article 338.10(B)(4).  
75° C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. May not apply, see NEC Article 338.10(B)(4).  
90° C - Wet or dry locations. For ampacity derating purposes.  
Dwelling - For units, conductors shall be permitted at listed ampacities as 120/240-volt, 3-wire, single-phase services and feeders per NEC Article 310.15.  
\*For compact-stranded construction, the number of wires, as permitted by UL Standard 83, UL Standard 854, and ASTM B-801, may be reduced as follows:  
19-Wire Constructions - 18 Wires Minimum

STANDARD PACKAGE CODE:  
B - 1000' Reel  
C - 500' Reel

## RECOMMENDED SAMPLE SPECIFICATIONS:

SER Sample Specification: Cable shall be UL-listed Type SE, Style SER, suitable for operation at 600 volts or less as specified in the National Electrical Code. Conductors shall be AlumaFlex™ aluminum alloy, weather resistant PVC jacketed, as manufactured by Southwire Company or approved equal.  
SEU Sample Specification: Cable shall be UL-listed Type SE, Style SEU, suitable for operation at 600 volts or less as specified in the National Electrical Code. Conductors shall be AlumaFlex™ aluminum alloy, weather resistant PVC jacketed, as manufactured by Southwire Company or approved equal.



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