

# AL SEU/SER



**Type SE, Style R and  
Type SE, Style U**

**Service Entrance Cable  
600 Volt**

**AlumaFlex™ Aluminum  
Alloy (AA-8176)  
Conductors**

**Individual Conductors  
Rated XHHW-2 or TYPE  
THWN**

**AlumaFlex™ Aluminum  
Alloy Neutral**

**Sunlight Resistant  
Jacket and Individual  
Conductors**

## **APPLICATIONS** Suitable for use as follows:

- 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 cable may be used in wet or dry locations at temperatures not to exceed 90°C
- Voltage rating is 600 volts

## **STANDARDS & REFERENCES**

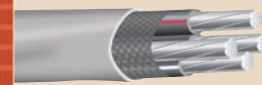
Southwire Type SE cable meets or exceeds UL Standard 44 for Type XHHW-2 conductors or UL Standard 83 for Type THHN/THWN, UL Standard 854, Federal Specification A-A-59544, and requirements of the NEC.

## **CONSTRUCTION**

Southwire Type SE cable is constructed with sunlight resistant Type XHHW-2 conductors or Type THWN conductors. Aluminum conductors are AlumaFlex™ AA-8000 series aluminum alloy, compact stranded. Southwire Type SE, Style R 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).

## **SPECIFICATIONS**

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



# ALUMINUM CONDUCTORS

AL SEU/SER

## WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR SIZE/CONST. (AWG or kcmil)	NOMINAL O.D. (mils)	ALLOWABLE AMPACITIES*				APPROX. NET WEIGHT PER 1000 FT. (lbs)
		60°C	75°C	90°C	DWELLING	
<b>SER ALUMINUM TWO CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "EZ-SE")</b>						
6-6-6	650	40	50	60	—	150
4-4-4	745	55	65	75	—	203
4-4-6	745	55	65	75	—	203
2-2-2	864	75	90	100	100	290
2-2-4	864	75	90	100	100	290
2/0-2/0-1	1140	115	135	150	150	527
2/0-2/0-2/0	1140	115	135	150	150	527
4/0-4/0-2/0	1354	150	180	205	200	784
4/0-4/0-4/0	1354	150	180	205	200	784
<b>SER THREE CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "FOUR CONDUCTOR")</b>						
8-8-8-8	612	30	40	45	—	136
6-6-6-6	717	40	50	60	—	196
4-4-4-6	823	55	65	75	—	252
2-2-2-4	956	75	90	100	100	359
1-1-1-3	1079	85	100	115	110	449
1/0-1/0-1/0-2	1168	100	120	135	125	540
2/0-2/0-2/0-1	1264	115	135	150	150	653
3/0-3/0-3/0-1/0	1378	130	155	175	175	793
4/0-4/0-4/0-2/0	1503	150	180	205	200	968
250-250-250-3/0	1576	170	205	230	225	—
<b>SER FOUR CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "FIVE CONDUCTOR")</b>						
2-2-2-2-4	1059	75	90	100	100	452
2/0-2/0-2/0-2/0-1	1404	115	135	150	150	827
4/0-4/0-4/0-4/0-2/0	1672	150	180	205	200	1228
250-250-250-250-3/0	1847	170	205	230	225	—
<b>SEU TWO CONDUCTOR WITH A BARE CONCENTRIC GROUND (FORMERLY REFERRED TO AS "THREE CONDUCTOR")</b>						
6-6-6	430 X 687	40	50	60	—	145
4-4-4	499 X 800	55	65	75	—	198
4-4-6	474 X 775	55	65	75	—	181
2-2-2	569 X 925	75	90	100	100	283
2-2-4	554 X 910	75	90	100	100	259
2/0-2/0-2/0	736 X 1221	115	135	150	150	514
2/0-2/0-1	720 X 1205	115	135	150	150	468
4/0-4/0-4/0	878 X 1462	150	180	205	200	765
4/0-4/0-2/0	835 X 1419	150	180	205	200	691

\*Allowable Ampacities:

Allowable ampacities shown are for general use as specified by the NEC, 2005 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.

THWN-2 when exposed to oil or coolant.

90°C - THWN-2 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.

All conductors are compact stranded construction complying with UL standard 44.

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**Individual Conductors  
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## **APPLICATIONS** Suitable for use as follows:

- 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 cable may be used in wet or dry locations at temperatures not to exceed 90°C
- Voltage rating is 600 volts

## **STANDARDS & REFERENCES**

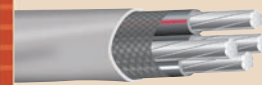
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## **CONSTRUCTION**

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