

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

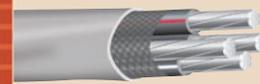
Southwire Type SE cable meets or exceeds UL Standard 44 for Type XHHW-2 conductors or UL Standard 83 for Type THHN/THWN, UL Standard 854, Federal Specification A-A-59544, and requirements of the NEC.

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

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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 | |
| SER ALUMINUM TWO CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "EZ-SE") | | | | | | |
| 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 |
| SER THREE CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "FOUR CONDUCTOR") | | | | | | |
| 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 | — |
| SER FOUR CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS "FIVE CONDUCTOR") | | | | | | |
| 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 | — |
| SEU TWO CONDUCTOR WITH A BARE CONCENTRIC GROUND (FORMERLY REFERRED TO AS "THREE CONDUCTOR") | | | | | | |
| 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.