

RHH or RHW or USE

Underground Service Entrance Cable. 600 Volt.
Copper Conductors. Cross-Linked Polyethylene (XLP) Insulation.
High-Heat, Moisture, and Sunlight Resistant.
Sizes 6 Through 4/0 AWG Also Rated SIS.



APPLICATIONS

Southwire Type RHH or RHW-2 or USE-2 conductors are used with conduit as specified in the 2011 National Electrical Code. When used as Type USE-2, conductor is suitable for use as underground service entrance cable for direct burial at conductor temperatures not to exceed 90° C. When used as RHH, conductor temperatures shall not exceed 90°C in dry locations. When used as RHW-2 or USE-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Voltage rating for RHH or RHW-2 or USE-2 conductors is 600 volts.

SPECIFICATIONS

Southwire Type RHH or RHW-2 or USE-2 comply with:

- ASTM - B3, B8 (7, 19, 37, 61 Strands), B787 (19 Wire Combination Unilay Strand)
- UL Standard 44 for RHH or RHW-2
- UL Standard 854 for USE-2
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70 - 2011 Edition
- NEMA WC 70 Construction Requirements
- RoHS/REACH Compliant

CONSTRUCTION

Southwire Type RHH or RHW-2 or USE-2 copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, heat, and sunlight resistant black cross-linked polyethylene (XLP).

An optional CT rated product is available upon request for sizes 1/0 and larger.

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| Conductor | | Insulation Thickness | Nominal O.D. (mils) | Approx. Weight per 1000' (lbs) | Allowable Ampacities+ | | | Standard Package |
|---------------------|-------------------|----------------------|---------------------|--------------------------------|-----------------------|-----|-----|------------------|
| Size (AWG or kcmil) | Number of Strands | | | | 60° | 75° | 90° | |
| 14 | 7 | 45 | 160 | 20 | 15 | 15 | 15 | AC |
| 12 | 7 | 45 | 177 | 29 | 20 | 20 | 20 | AC |
| 10 | 7 | 45 | 201 | 42 | 30 | 30 | 30 | AC |
| 8 | 7 | 60 | 256 | 68 | 40 | 50 | 55 | AC |
| 6 | 7 | 60 | 294 | 101 | 55 | 65 | 75 | ABCD |
| 4 | 7 | 60 | 341 | 154 | 70 | 85 | 95 | ABCD |
| 2 | 7 | 60 | 397 | 235 | 95 | 115 | 130 | ABCD |
| 1 | 19 | 80 | 484 | 309 | 110 | 130 | 145 | B |
| 1/0 | 19 | 80 | 520 | 379 | 125 | 150 | 170 | ABC |
| 2/0 | 19 | 80 | 557 | 472 | 145 | 175 | 195 | ABC |
| 3/0 | 19 | 80 | 614 | 583 | 165 | 200 | 225 | ABC |
| 4/0 | 19 | 80 | 673 | 729 | 195 | 230 | 260 | BC |
| 250 | 37 | 95 | 748 | 863 | 215 | 255 | 290 | BC |
| 300 | 37 | 95 | 804 | 1029 | 240 | 285 | 320 | AB |
| 350 | 37 | 95 | 854 | 1191 | 260 | 310 | 350 | AB |
| 400 | 37 | 95 | 899 | 1352 | 280 | 335 | 380 | |
| 500 | 37 | 95 | 983 | 1674 | 320 | 380 | 430 | AB |
| 600 | 61 | 110 | 1089 | 2012 | 350 | 420 | 475 | A |
| 700 | 61 | 110 | 1158 | 2332 | 385 | 460 | 520 | |
| 750 | 61 | 110 | 1191 | 2492 | 400 | 475 | 535 | |
| 800 | 61 | 110 | 1223 | 2642 | 410 | 490 | 555 | |
| 900 | 61 | 110 | 1283 | 2970 | 435 | 520 | 585 | |
| 1000 | 61 | 110 | 1340 | 3288 | 455 | 545 | 615 | |

+ Allowable ampacities shown are for general use as specified by the National Electrical Code, 2011 Edition, section 310.15 and 240.4(D)
 Unless the equipment is marked for use at higher temperatures the conductor ampacities shall be limited to the following per NEC 110.14(C)
 60° C- When terminated to equipment for circuits rated 100 amperes or less or marked for 14- 1 AWG conductors.
 75° C- When terminated to equipment for circuits rated over 100 amperes or marked for 1/0 AWG or larger conductors.
 90° C- Wet or dry locations for ampacity adjustment purposes using NEC section 310.15

Package Codes:
 A- 2500 ft. Reel
 B- 1000 ft. Reel
 C- 500 ft. Reel
 D- 5000 ft. Reel



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RECOMMENDED SAMPLE SPECIFICATIONS:

Conductors shall be UL-listed Type RHH or RHW-2 or USE-2, suitable for operation at 600 volts or less in wet or dry locations, including direct burial in the earth. Conductors shall be annealed copper, cross-linked polyethylene (XLP) insulated, as manufactured by Southwire Company or approved equal.