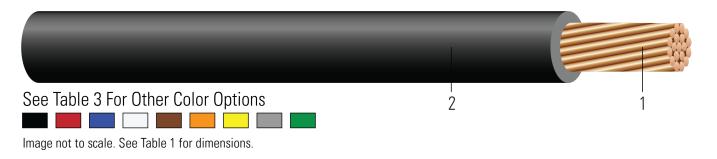


RHH/RHW-2/USE-2 Copper Silicone-Free.

USE-2 600 Volts or RHH/RHW-2 1000 Volts. Underground Service Entrance Cable. Copper Conductors. Cross-Linked Polyethylene (XLP) Insulation. Abrasion, High-Heat, Moisture, and Sunlight Resistant Sizes 6 - 4/0.



CONSTRUCTION:

- 1. Conductor: Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- 2. **Insulation**: Cross Linked Polyethylene (XLPE) Type RHH/RHW-2 USE-2 Silicone-Free, Abrasion, High-Heat, Moisture, and Sunlight Resistant Sizes 6 4/0.

APPLICATIONS AND FEATURES:

Southwire's USE-2 600 Volts or RHH/RHW-2 1000 Volts power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UI 854 Service Entrance Cable
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 {UL} XXX AWG (XX.X{mm2}) CU TYPE USE-2 600V OR RHH OR RHW-2 1000V XX MILS XLP 90C

Table 1 – Weights and Measurements

| Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. Thickness | Approx. OD | Copper Weight | Approx. Weight |
|------------|--------------|----------------|-------------------------|------------------|------------|---------------|----------------|
| AWG/Kcmil | | No. of Strands | inch | mil | inch | lb/1000ft | lb/1000ft |
| 10 | 1 | 7 | 0.113 | 45 | 0.203 | 32 | 42 |

All dimensions are nominal and subject to normal manufacturing tolerances

♦ Cable marked with this symbol is a standard stock item







Table 2 – Electrical and Engineering Data

| Cond. Size | Cond. Number | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|---------------|-----------------|-----------------------|---------------------|-------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|
| AWG/ Kcmil | | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp |
| 10 | 1 | 0.8 | 83 | 1.040 | 1.253 | 0.050 | 35 | 40 |

^{*} Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

Table 3 - Stock Code Colors

| Size (Strand) | Black | Red | Blue | White | Brown | Orange | Yellow | Gray | Green | Purple |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12 (Solid) | 113399 | | | | | | | | | |
| 12 (7) | 113431 | | | | | | | | | |
| 10 (7) | 113449 | | | 645838 | | | | | | |
| 8 (7) | 113456 | 952689 | 588683 | 643957 | | | | | 655993 | |
| 6 (7) | 113464 | 620685 | 959726 | 640110 | 646503 | 646504 | 646506 | 646507 | 640128 | |
| 4 (7) | 113472 | 476549 | 643577 | 476565 | | 588746 | 588747 | | 952663 | |
| 3 (7) | 113480 | | | | | | | | 587189 | |
| 2 (7) | 113498 | 476531 | 643544 | 476523 | 620746 | 616347 | 616346 | 620747 | 958009 | |
| 1 (19) | 113506 | | | | 647620 | 647621 | 647622 | | | |
| 1/0 (19) | 113514 | | | 643973 | | | | | | |
| 2/0 (19) | 113522 | 666096 | | | | | | | 591255 | |
| 3/0 (19) | 113530 | | | | | | | | | |
| 4/0 (19) | 113548 | 647337 | 647338 | 564225 | | | | | | |
| 250 (37) | 113555 | | | | | | | | | |
| 300 (37) | 113563 | | | | | | | | | |
| 350 (37) | 113571 | 666097 | | | | | | | | |
| 400 (37) | 113589 | | | | | | | | | |
| 500 (37) | 663447 | 678973 | | 678974 | 580165 | 580166 | 580168 | 580169 | | 139530 |
| 600 (61) | 113605 | | | | | | | | | |
| 1000 (61) | 113647 | | | | | | | | | |



^{*} Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.