

# RHH/RHW/USE



**Underground Service Entrance Cable**

**600 Volt**

**Copper Conductors**

**Cross-linked Polyethylene (XLP) Insulation**

**High-Heat, Moisture, and Sunlight Resistant**

**Sizes 6 AWG through 4/0 AWG Also Rated SIS**

## APPLICATIONS Suitable for use as follows:

- Southwire Type RHH or RHW-2 or USE-2 conductors are used with conduit as specified in the NEC<sup>1</sup>
- 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

## STANDARDS & REFERENCES

Southwire Type RHH or RHW-2 or USE-2 meets or exceeds UL Standard 44 (for RHH or RHW-2), UL Standard 854 (for USE-2), Federal Specification A-A-59544 and requirements of the NEC.<sup>®</sup>

## 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

## 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)

<sup>1</sup> 2008 Edition



# SOLAR

RHH/RHW/USE

## WEIGHTS, MEASUREMENTS AND PACKAGING

| CONDUCTOR SIZE      |                   | INSULATION THICKNESS (MILS) | NOMINAL O.D. (MILS) | ALLOWABLE AMPACITIES* |      |      | APPROX. NET WEIGHT PER 1000 FT. (LBS) | STANDARD PACKAGE |
|---------------------|-------------------|-----------------------------|---------------------|-----------------------|------|------|---------------------------------------|------------------|
| SIZE (AWG OR KCMIL) | NUMBER OF STRANDS |                             |                     | 60°C                  | 75°C | 90°C |                                       |                  |
| 14                  | 7                 | 45                          | 160                 | 15                    | 15   | 15   | 21                                    | A                |
| 12                  | 7                 | 45                          | 177                 | 20                    | 20   | 20   | 30                                    | A                |
| 10                  | 7                 | 45                          | 201                 | 30                    | 30   | 30   | 44                                    | A                |
| 8                   | 7                 | 60                          | 262                 | 40                    | 50   | 55   | 72                                    | B                |
| 6                   | 7                 | 60                          | 297                 | 55                    | 65   | 75   | 106                                   | B                |
| 4                   | 7                 | 60                          | 344                 | 70                    | 85   | 95   | 156                                   | B                |
| 2                   | 7                 | 60                          | 400                 | 95                    | 115  | 130  | 238                                   | B                |
| 1                   | 19                | 80                          | 484                 | 110                   | 130  | 150  | 309                                   | B                |
| 1/0                 | 19                | 80                          | 523                 | 125                   | 150  | 170  | 381                                   | B                |
| 2/0                 | 19                | 80                          | 567                 | 145                   | 175  | 195  | 472                                   | B                |
| 3/0                 | 19                | 80                          | 617                 | 165                   | 200  | 225  | 586                                   | B                |
| 4/0                 | 19                | 80                          | 673                 | 195                   | 230  | 260  | 729                                   | B                |
| 250                 | 37                | 95                          | 751                 | 215                   | 255  | 290  | 867                                   | B                |
| 300                 | 37                | 95                          | 804                 | 240                   | 285  | 320  | 1029                                  | B                |
| 350                 | 37                | 95                          | 854                 | 260                   | 310  | 350  | 1191                                  | B                |
| 400                 | 37                | 95                          | 899                 | 280                   | 335  | 380  | 1352                                  | B                |
| 500                 | 37                | 95                          | 983                 | 320                   | 380  | 430  | 1674                                  | B                |
| 600                 | 61                | 110                         | 1089                | 355                   | 420  | 475  | 2012                                  | C                |
| 700                 | 61                | 110                         | 1158                | 385                   | 460  | 520  | 2332                                  | C                |
| 750                 | 61                | 110                         | 1191                | 400                   | 475  | 535  | 2492                                  | C                |
| 800                 | 61                | 110                         | 1223                | 410                   | 490  | 555  | 2652                                  | C                |
| 900                 | 61                | 110                         | 1283                | 435                   | 520  | 585  | 2970                                  | C                |
| 1000                | 61                | 110                         | 1340                | 455                   | 545  | 615  | 3288                                  | C                |

\*Allowable Ampacities:  
 Allowable ampacities shown are for general use as specified by the NEC,<sup>®</sup> 2005 Edition, section 310.15.  
 60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for 14 AWG through 1 AWG conductors.  
 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.  
 90°C - RHH dry locations. RHW-2 and USE-2 wet or dry locations. For ampacity derating purposes.

### STANDARD PACKAGE CODES

- A – 2500 ft. reel
- B – 1000 ft. reel
- C – 500 ft. reel