

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories Standards UL-44, UL-854, UL-1581, UL-2556; Federal Specification A-A-59544; NEMA WC70/ICEA S-95-658; American Standards Institute; NFPA 70 (NEC®) Article 310; UL 1685 (70,000 Btu/hr) Flame Test (1/0 AWG and larger); ICEA T-29-520 (210,000 Btu/hr) Flame Test; ICEA S-81-570; NEMA RV 4-2012; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-174428



Listed E-174428



## CONSTRUCTION

### Conductors

Stranded conductors, uncoated copper per ASTM-B8 and ASTM-B787

### Insulation

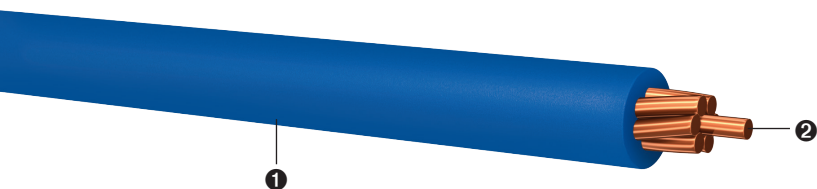
Cross-linked polyethylene (XLPE) insulation per UL-854

## APPLICATIONS

Type USE-2 or RHH or RHW-2 copper conductors are suitable for use in raceways installed underground in wet locations, and where condensation and moisture accumulations within the conduit do not exceed 90°C. Applications requiring direct burial are permitted for Type USE-2, RHH, RHW-2 per UL-854. For applications requiring Type RHH or RHW-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Type USE -2 or RHH or RHW-2 is permitted for 600 volt applications.

## FEATURES

10 AWG and larger rated for Sunlight Resistance in all colors. Cables comply with UL's FT-2 (horizontal wire flame). On 250 KCMIL and larger, sequential foot markings located every foot for easy measuring. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. 1/0 AWG and larger are rated for cable tray use and comply with UL-1685 (70,000 Btu/hr) flame test. When used as RHH or RHW-2, cable also complies with ICEA T-29-520 (210,000 Btu/hr) flame test. Excellent ruggedized and mechanical protection.



- ① XLPE Insulation
- ② Stranded Copper Conductor

| Size<br>(AWG or KCMIL) | No. of<br>Strands | Insulation<br>Thickness<br>XLPE<br>(in) | Outside<br>Diameter |       | Allowable Ampacity<br>(Amps) <sup>1</sup> |      |      | Approximate<br>Net Weight<br>(lbs/1000 ft) | Standard Packaging<br>(ft)       |
|------------------------|-------------------|---|---------------------|-------|---|------|------|--|----------------------------------|
|                        |                   |   | (in)                | (mm)  | 60°C                                      | 75°C | 90°C |  |                                  |
| 12                     | 19                | 0.045                                   | 0.179               | 4.55  | 20  | 25   | 30   | 30   | 1000' carton (2x500) 2500' Reels |
| 10                     | 19                | 0.045                                   | 0.202               | 5.13  | 30  | 35   | 40   | 43   | 500' 2500' Reels                 |
| 8                      | 7 <sup>2</sup>    | 0.060                                   | 0.266               | 6.76  | 40  | 50   | 55   | 72   | 500' 1000' 2500' 5000' Reels     |
| 6                      | 7 <sup>2</sup>    | 0.060                                   | 0.304               | 7.73  | 55  | 65   | 75   | 106  | 500' 1000' 2500' 5000' Reels     |
| 4                      | 7 <sup>2</sup>    | 0.060                                   | 0.352               | 8.94  | 70  | 85   | 95   | 157  | 500' 1000' 2500' 5000' Reels     |
| 3                      | 7 <sup>2</sup>    | 0.060                                   | 0.380               | 9.66  | 85  | 100  | 110  | 201  | 500' 1000' 2500' 5000' Reels     |
| 2                      | 7 <sup>2</sup>    | 0.060                                   | 0.412               | 10.47 | 95  | 115  | 130  | 237  | 500' 1000' 2500' 5000' Reels     |
| 1                      | 19                | 0.080                                   | 0.481               | 12.22 | 110                                       | 130  | 145  | 309  | 500' 1000' 2500' 5000' Reels     |
| 1/0                    | 19                | 0.080                                   | 0.520               | 13.21 | 125                                       | 150  | 170  | 382  | 500' 1000' 2500' 5000' Reels     |
| 2/0                    | 19                | 0.080                                   | 0.564               | 14.33 | 145                                       | 175  | 195  | 471  | 500' 1000' 2500' 5000' Reels     |
| 3/0                    | 19                | 0.080                                   | 0.614               | 15.60 | 165                                       | 200  | 225  | 587  | 500' 1000' 2500' 5000' Reels     |
| 4/0                    | 19                | 0.080                                   | 0.670               | 17.02 | 195                                       | 230  | 260  | 729  | 500' 1000' 2500' 5000' Reels     |
| 250                    | 37                | 0.095                                   | 0.732               | 18.60 | 215                                       | 255  | 290  | 861  | 500' 1000' 2500' 5000' Reels     |
| 300                    | 37                | 0.095                                   | 0.784               | 19.92 | 240                                       | 285  | 320  | 1029                                       | 500' 1000' 3500' Reels           |
| 350                    | 37                | 0.095                                   | 0.831               | 21.11 | 260                                       | 310  | 350  | 1193                                       | 500' 1000' 3000' Reels           |
| 400                    | 37                | 0.095                                   | 0.875               | 22.23 | 280                                       | 335  | 380  | 1354                                       | 500' 1000' 3000' Reels           |
| 500                    | 37                | 0.095                                   | 0.956               | 24.29 | 320                                       | 380  | 430  | 1672                                       | 500' 1000' 2500' Reels           |
| 600                    | 61                | 0.110                                   | 1.086               | 27.59 | 350                                       | 420  | 475  | 2012                                       | 500' 1000' 2000' Reels           |
| 750                    | 61                | 0.110                                   | 1.188               | 30.18 | 400                                       | 475  | 535  | 2493                                       | 500' 1000' 1500' Reels           |
| 1000                   | 61                | 0.110                                   | 1.337               | 33.96 | 455                                       | 545  | 615  | 3287                                       | 500' 1000' Reels                 |

<sup>1</sup> Ampacity of conductors are based on NFPA 70 (NEC) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

<sup>2</sup> 8 AWG - 2 AWG: 19/w is available upon request.

### PRINT LEGEND:

**12 AWG:** ENCORE\*WIRE\*CORP\*(SIZE)\*TYPE\*USE-2\*OR\*RHH\*OR\*RHW\*OR\*RHW-2\*DIR-BUR\*FT2\*600V\*XLPE\*(UL)

**10 AWG THROUGH 1 AWG:** ENCORE\*WIRE\*CORP\*(SIZE)\*TYPE\*USE-2\*OR\*RHH\*OR\*RHW\*OR\*RHW-2\*GR2\*SUN-RES\*DIR-BUR\*FT2\*600V\*XLPE\*(UL)\*DATE\*TIME\*OPERATOR\*QC

**1/0 AWG THROUGH 1000 KCMIL:** ENCORE\*WIRE\*CORP\*(SIZE)\*TYPE\*USE-2\*OR\*RHH\*OR\*RHW\*OR\*RHW-2\*GR2\*SUN-RES\*DIR-BUR\*FT2\*600V\*XLPE\*FOR\*CT\*USE\*(UL)\*DATE\*TIME\*OPERATOR\*QC

**PACKAGING:** Available in Encore's Cyclone Barrel Packs, Reel Payoff and Reel Deal.