

TYPE XHHW-2 / RW90 - COPPER CONDUCTOR - SUPERSLICK ELITE - 600V/1000V

ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standard UL-44, UL-1581, UL-2556; ASTM Stranding Class B3, B8, B787; Federal Specification A-A-59544; NEMA WC-70/ICEA S-95-658*; Canadian Standards Association C22.2 No. 38; Canadian C-UL RW90; NFPA 70 (NEC®) Article 310; ICEA T-29-520 (210,000 Btu/hr) Flame Test; UL 1685 (70,000 Btu/hr) Flame Test (1/0 AWG and larger); ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-177544



CONSTRUCTION

Conductors

Stranded, uncoated bare copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation

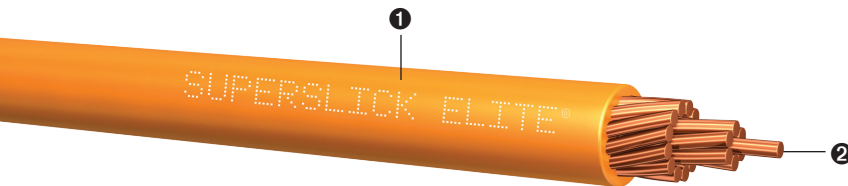
Cross-linked polyethylene (XLPE) insulation per UL-44.

APPLICATIONS

Type XHHW-2/RW90 building wire is intended for general purpose applications utilized in conduit and tubing underground in conduit, or other recognized raceways for services, feeders, and branch-circuit wiring as specified in the National Electrical Code (NEC). Type XHHW-2/RW90 is permitted for 600-volt and 1000-volt applications and can be used in wet or dry locations at temperatures not to exceed 90°C. Suitable for applications requiring low-leaking circuits and a dielectric constant of 3.5 or less.

FEATURES

A great alternative to eliminate the need for lube. Slick outer surface for easy pulling. SuperSlick Elite XHHW-2/RW90 is available in sizes 14 AWG through 1000 KCMIL. 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. 8 AWG and larger rated Sunlight Resistant in all colors. 1/0 AWG and larger are rated for cable tray use and comply with UL-1685 (70,000 Btu/hr) flame test and ICEA T-29-520 (210,000 Btu/hr) flame test.



- 1 SuperSlick Elite: XLPE Insulation
- 2 Stranded Copper Conductor

| Size (AWG or KCMIL) | No. of Strands | XLPE Insulation Thickness | | Outside Diameter | | Approximate Net Weight | | Allowable Ampacity (Amps) ² | | | Standard Packaging (ft) |
|------------------------|-------------------|------------------------------|-------|------------------|-------|---------------------------|---------------|---|------|------|--------------------------------------|
| | | (mm) | (in) | (mm) | (in) | (kg/km) | (lbs/1000 ft) | 60°C | 75°C | 90°C | |
| 14 | 19 | 0.76 | 0.030 | 3.32 | 0.131 | 25 | 17 | 15 | 20 | 25 | 2000' carton (4 x 500'), 2500' Reels |
| 12 | 19 | 0.76 | 0.030 | 3.78 | 0.149 | 37 | 25 | 20 | 25 | 30 | 1000' carton (2 x 500'), 2500' Reels |
| 10 | 19 | 0.76 | 0.030 | 4.39 | 0.173 | 57 | 38 | 30 | 35 | 40 | 500' spools, 2500' Reels |
| 8 | 7 | 1.14 | 0.045 | 5.99 | 0.236 | 94 | 63 | 40 | 50 | 55 | 500' 1000' 2500' 5000' Reels |
| 6 | 7 | 1.52 | 0.045 | 7.71 | 0.274 | 150 | 101 | 55 | 65 | 75 | 500' 1000' 2500' 5000' Reels |
| 4 | 7 | 1.52 | 0.045 | 8.93 | 0.322 | 228 | 153 | 70 | 85 | 95 | 500' 1000' 2500' 5000' Reels |
| 3 | 7 | 1.52 | 0.045 | 9.65 | 0.350 | 280 | 188 | 85 | 100 | 115 | 500' 1000' 2500' 5000' Reels |
| 2 | 7 | 1.52 | 0.045 | 10.46 | 0.382 | 348 | 234 | 95 | 115 | 130 | 500' 1000' 2500' 5000' Reels |
| 1 | 19 | 2.03 | 0.055 | 12.39 | 0.438 | 451 | 303 | 110 | 130 | 145 | 500' 1000' 2500' 5000' Reels |
| 1/0 | 19 | 2.03 | 0.055 | 13.20 | 0.470 | 557 | 374 | 125 | 150 | 170 | 500' 1000' 2500' 5000' Reels |
| 2/0 | 19 | 2.03 | 0.055 | 14.32 | 0.514 | 690 | 464 | 145 | 175 | 195 | 500' 1000' 2500' 5000' Reels |
| 3/0 | 19 | 2.03 | 0.055 | 15.59 | 0.564 | 859 | 577 | 165 | 200 | 225 | 500' 1000' 2500' 5000' Reels |
| 4/0 | 19 | 2.03 | 0.055 | 17.01 | 0.620 | 1068 | 718 | 195 | 230 | 260 | 500' 1000' 2500' 5000' Reels |
| 250 | 37 | 1.64 | 0.065 | 17.05 | 0.671 | 1229 | 826 | 215 | 255 | 290 | 500' 1000' 2500' 4000' Reels |
| 300 | 37 | 1.65 | 0.065 | 18.93 | 0.724 | 1466 | 985 | 240 | 285 | 320 | 500' 1000' 3500' Reels |
| 350 | 37 | 1.65 | 0.065 | 19.58 | 0.771 | 1702 | 1144 | 260 | 310 | 350 | 500' 1000' 3000' Reels |
| 400 | 37 | 1.65 | 0.065 | 20.70 | 0.815 | 1937 | 1302 | 280 | 335 | 380 | 500' 1000' 3000' Reels |
| 500 | 37 | 1.65 | 0.065 | 22.76 | 0.896 | 2408 | 1618 | 320 | 380 | 430 | 500' 1000' 2500' Reels |
| 600 | 61 | 1.65 | 0.080 | 25.98 | 1.023 | 2929 | 1969 | 350 | 420 | 475 | 500' 1000' 2000' Reels |
| 750 | 61 | 2.03 | 0.080 | 29.41 | 1.158 | 3588 | 2411 | 400 | 475 | 535 | 500' 1000' 1500' Reels |
| 1000 | 61 | 2.03 | 0.080 | 33.32 | 1.312 | 4757 | 3197 | 455 | 545 | 615 | 500' 1000' Reels |

* NEMA WC-70/ICEA S-95-658 for 600V only.

¹ SuperSlick Elite manufactured under Patent No. 8,658,576

² 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.

PRINT LEGEND:

14 AWG THROUGH 10 AWG: ENCORE*WIRE*CORP*(SIZE)*TYPE*XHHW-2*600V/1000V*GR2*FT2*XLPE*(UL)*OR*C(UL)*RW90*600V* SUPERSLICK ELITE

8 AWG THROUGH 1 AWG: ENCORE*WIRE*CORP*(SIZE)*TYPE*XHHW-2*600V/1000V*GR2*SUN-RES*FT2*XLPE*(UL)*OR*C(UL)*RW90*600V*DATE*TIME*OPERATOR*QC SUPERSLICK ELITE

1/0 AWG THROUGH 1000 KCMIL: ENCORE*WIRE*CORP*(SIZE)*TYPE*XHHW-2*600V/1000V*GR2*SUN-RES*FT2*XLPE*FOR*CT*USE*(UL)*OR*C(UL)*RW90*600V*DATE*TIME*OPERATOR*QC SUPERSLICK ELITE

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