

XHHW-2 CT

XLPE, Low-Voltage Power, 600 V

UL Type XHHW-2, CT Rated, Single Conductor, Copper



Product Construction:

Conductor:

- 14 AWG thru 750 kcmil annealed bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) AWG/ KCMIL LOW FRICTION* TYPE XHHW-2 (UL) 600 V SUN RES FOR CT USE** MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

* Sizes 14 AWG - 10 AWG do not include "LOW FRICTION"

** Sizes smaller than 1/0 AWG do not include "SUN RES FOR CT USE"

Options:

- Tinned copper conductor
- Full colored insulation

Applications:

- General purpose building wire for use primarily in conduit or other recognized raceways as specified in the National Electrical Code
- Industrial environments where superior insulation toughness and chemical resistance are required
- Maximum operating temperature not to exceed 90°C in dry or wet locations
- In free air, raceways or cable trays in accordance with NEC



Features:

- Low Friction for easy pulling on 8 AWG and larger
- "FOR CT USE" on 1/0 AWG and larger
- Sunlight-resistant for 1/0 AWG and larger, all colors
- Rated at 90°C wet or dry
- Smaller cable O.D.
- Excellent electrical, thermal and physical properties
- Excellent resistance to moisture
- Excellent resistance to crush, compression cuts and heat deformation

Compliances:

Industry Compliances:

- National Electric Code (NEC)
- UL 44 Standard for Rubber Insulated Wire and Cable
- ICEA S-95-658/NEMA WC70
- UL Listed as Type XHHW-2, UL File # E90494
- OSHA Acceptable

Flame Test Compliances:

- UL 1685, 1/0 AWG and larger

Packaging:

- Material cut to length and shipped on non-returnable wood reels

XHHW-2

| CATALOG NUMBER | COND. SIZE (AWG/kcmil) | COND. STRAND | NOMINAL COND. DIAMETER | | MINIMUM AVG. INSULATION THICKNESS | | NOMINAL CABLE O.D. | | COPPER WEIGHT | | NET WEIGHT | | AMPACITY (1) | | |
|----------------|------------------------|--------------|------------------------|----|-----------------------------------|----|--------------------|----|---------------|-------|-------------|-------|--------------|------|------|
| | | | INCHES | mm | INCHES | mm | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km | 60°C | 75°C | 90°C |

14 AWG - 750 kcmil CONDUCTORS

| | | | | | | | | | | | | | | | |
|----------|-----|----------|------|-------|-------|------|------|-------|------|------|------|------|-----|-----|-----|
| 391070 | 14 | 7/.0240 | 0.07 | 1.80 | 0.030 | 0.76 | 0.13 | 3.38 | 12 | 18 | 17 | 25 | 15 | 15 | 15 |
| 391080 | 12 | 7/.0305 | 0.09 | 2.26 | 0.030 | 0.76 | 0.15 | 3.84 | 20 | 30 | 26 | 39 | 20 | 20 | 20 |
| 391090 | 10 | 7/.0385 | 0.11 | 2.87 | 0.030 | 0.76 | 0.18 | 4.57 | 32 | 48 | 38 | 57 | 30 | 30 | 30 |
| 5175.008 | 8 | 7/.0486 | 0.14 | 3.56 | 0.045 | 1.14 | 0.24 | 6.10 | 51 | 76 | 65 | 97 | 40 | 50 | 55 |
| 5175.006 | 6 | 7/.0612 | 0.18 | 4.57 | 0.045 | 1.14 | 0.28 | 7.11 | 81 | 121 | 99 | 147 | 55 | 65 | 75 |
| 5175.004 | 4 | 7/.0772 | 0.23 | 5.84 | 0.045 | 1.14 | 0.33 | 8.38 | 129 | 192 | 152 | 226 | 70 | 85 | 95 |
| 5175.002 | 2 | 7/.0974 | 0.29 | 7.37 | 0.045 | 1.14 | 0.39 | 9.91 | 205 | 305 | 233 | 347 | 95 | 115 | 130 |
| 5175.001 | 1 | 19/.0664 | 0.32 | 8.13 | 0.055 | 1.40 | 0.44 | 11.18 | 256 | 381 | 293 | 437 | 110 | 130 | 145 |
| 5175.110 | 1/0 | 19/.0740 | 0.36 | 9.14 | 0.055 | 1.40 | 0.48 | 12.19 | 326 | 485 | 364 | 572 | 125 | 150 | 170 |
| 5175.210 | 2/0 | 19/.0837 | 0.41 | 10.41 | 0.055 | 1.40 | 0.53 | 13.46 | 411 | 612 | 453 | 674 | 145 | 175 | 195 |
| 5175.310 | 3/0 | 19/.0940 | 0.46 | 11.68 | 0.055 | 1.40 | 0.58 | 14.73 | 518 | 772 | 565 | 842 | 165 | 200 | 225 |
| 5175.410 | 4/0 | 19/.1055 | 0.51 | 12.95 | 0.055 | 1.40 | 0.63 | 16.00 | 653 | 972 | 706 | 1051 | 195 | 230 | 260 |
| 5175.250 | 250 | 37/.0822 | 0.56 | 14.22 | 0.065 | 1.65 | 0.70 | 17.78 | 722 | 1074 | 837 | 1246 | 215 | 255 | 290 |
| 5175.350 | 350 | 37/.0973 | 0.66 | 16.76 | 0.065 | 1.65 | 0.80 | 20.32 | 1081 | 1609 | 1157 | 1722 | 260 | 310 | 350 |
| 5175.500 | 500 | 37/.1162 | 0.79 | 20.07 | 0.065 | 1.65 | 0.93 | 23.62 | 1544 | 2298 | 1634 | 2432 | 320 | 380 | 430 |
| 5175.600 | 600 | 37/.1109 | 0.87 | 22.10 | 0.080 | 2.03 | 1.04 | 26.42 | 1853 | 2758 | 1972 | 2935 | 350 | 420 | 475 |
| 5175.750 | 750 | 61/.1280 | 0.98 | 24.89 | 0.080 | 2.03 | 1.15 | 29.21 | 2316 | 3447 | 2448 | 3643 | 400 | 475 | 535 |

Dimensions and weights are nominal; subject to industry tolerances.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code, 2011 Edition, section 310.15(B)(16). Adjustments and corrections may apply:

60°C – When terminated to equipment for circuits rated 100 amperes or less or marked for 14 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 – Wet or dry locations. For ampacity derating purposes.

Dwelling – For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.



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