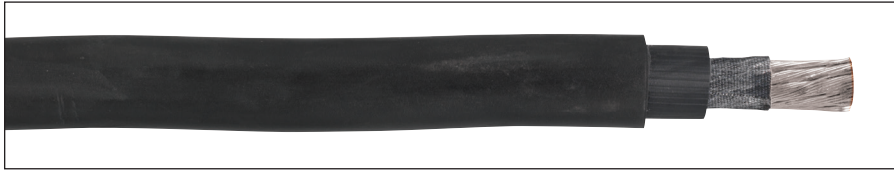


Diesel Locomotive Cable 2000 Volts (EPR/XL-CPE)

UL RHH/RHW-2 2000 V and c(UL) RW90, 1000 V

Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40°C to 90°C



Compliances:

Industry Compliances:

- Type RHH/RHW-2 per UL 44, UL File # E90494
 - c(UL)US Type RW90 per CSA C.22.2-38, UL File # E90494
 - National Electrical Code (NEC)
 - ICEA S-95-658/NEMA WC70
 - "For CT Use" on 1/0 AWG and larger in accordance with NEC®
 - Accepted for listing as flame resistant by MSHA
 - RoHS Compliant
- Flame Test Compliances:**
- UL 2556 VW-1
 - IEEE 1202/CSA FT4 for sizes 1/0 AWG and larger

Product Construction:

Conductor:

- 14 AWG (2.08 mm) thru 1111.1 kcmil (562 mm) Class I fully annealed flexible stranded tin coated copper per AAR 589

Insulation:

- Flame-retardant, lead-free Cross-linked Ethylene Propylene (EP) with separator tape over the conductor to facilitate stripping

Jacket:

- Black, flame-retardant, sunlight-, ozone- and oil-resistant, lead-free Cross-linked Chlorinated Polyethylene (XL-CPE)
- Colors available upon request

Applications:

- For use up to 2000 V as power cables in wind turbine generator applications per UL Subject 6140
- Diesel electric locomotives

Applications (cont'd.):

- Mining and earth-moving equipment
- General purpose use as flexible power leads
- Flexible power leads in cable trays in sizes 1/0 AWG and larger
- Accepted for listing as flame-resistant by MSHA

Features:

- Rated 90°C wet or dry per UL 44/CSA C.22.2-38
- Flexible tinned copper stranding
- Excellent resistance to oils, gear lubricants, ozone, sunlight, heat and flame
- Designed to withstand continuous flexing

Minimum Bend Radius:

- 8X O.D. for fixed installations

Torsion Requirements:

- +/-180° twists per meter for 5,000 cycles at -40°C with cable weight compensated to 18 meters

AC Withstand Voltage Testing requirements per UL 44:

| | |
|---------------------------|---------|
| 14 - 10 AWG | 6000 V |
| 8 - 2 AWG | 7500 V |
| 1 - 4/0 AWG | 9000 V |
| 262.6 kcmil - 444 kcmil | 10000 V |
| 535.3 kcmil - 929.9 kcmil | 11000 V |
| 1111.1 kcmil | 13500 V |

| CATALOG NUMBER | COND. SIZE | | COND. STRAND | NOMINAL COND. O.D. | | NOM. INS. THICKNESS | | JACKET THICKNESS | | NOMINAL O.D. | | APPROX. NET WEIGHT | |
|----------------|------------|-----|--------------|--------------------|----|---------------------|----|------------------|----|--------------|----|--------------------|-------|
| | AWG/kcmil | mm² | | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | LBS/1000 FT | kg/km |

14 AWG - 1111.1 kcmil CONDUCTORS

| | | | | | | | | | | | | | |
|-------------|--------|------|-------|-------|------|-------|-----|-------|-----|------|------|------|------|
| 5310.01014 | 14 | 2.08 | 19W | 0.070 | 1.8 | 0.045 | 1.1 | 0.015 | 0.4 | 0.20 | 5.1 | 30 | 45 |
| 5310.01012 | 12 | 3.31 | 19W | 0.088 | 2.2 | 0.045 | 1.1 | 0.015 | 0.4 | 0.22 | 5.6 | 39 | 58 |
| 5310.01010 | 10 | 5.26 | 27W | 0.117 | 3.0 | 0.045 | 1.1 | 0.015 | 0.4 | 0.25 | 6.4 | 56 | 83 |
| 5310.01008 | 8 | 8.36 | 37W | 0.144 | 3.7 | 0.055 | 1.4 | 0.030 | 0.8 | 0.33 | 8.3 | 87 | 129 |
| 5310.01006 | 6 | 13.3 | 61W | 0.190 | 4.8 | 0.060 | 1.5 | 0.030 | 0.8 | 0.38 | 9.7 | 131 | 195 |
| 5310.01004 | 4 | 21.1 | 105W | 0.262 | 6.7 | 0.060 | 1.5 | 0.030 | 0.8 | 0.46 | 11.7 | 202 | 301 |
| 5310.01002 | 2 | 33.6 | 158W | 0.315 | 8.0 | 0.060 | 1.5 | 0.030 | 0.8 | 0.51 | 13.0 | 285 | 424 |
| 5310.01001 | 1 | 42.4 | 224W | 0.375 | 9.5 | 0.080 | 2.0 | 0.045 | 1.1 | 0.64 | 16.3 | 417 | 621 |
| 5310.01110 | 1/0 | 53.5 | 280W | 0.435 | 11.0 | 0.080 | 2.0 | 0.045 | 1.1 | 0.70 | 17.8 | 494 | 735 |
| 5310.01210 | 2/0 | 67.4 | 329W | 0.465 | 11.8 | 0.080 | 2.0 | 0.045 | 1.1 | 0.73 | 18.5 | 587 | 874 |
| 5310.01310 | 3/0 | 85 | 456W | 0.535 | 13.6 | 0.080 | 2.0 | 0.045 | 1.1 | 0.80 | 20.3 | 718 | 1069 |
| 5310.01410 | 4/0 | 107 | 551W | 0.581 | 14.8 | 0.080 | 2.0 | 0.045 | 1.1 | 0.84 | 21.3 | 845 | 1258 |
| 5310.01262 | 262.6 | 133 | 650W | 0.617 | 15.7 | 0.090 | 2.3 | 0.065 | 1.7 | 0.94 | 23.9 | 1050 | 1563 |
| 5310.01313 | 313.1 | 158 | 777W | 0.671 | 17.0 | 0.090 | 2.3 | 0.065 | 1.7 | 1.00 | 25.3 | 1195 | 1778 |
| 5310.01373 | 373.7 | 189 | 925W | 0.735 | 18.7 | 0.090 | 2.3 | 0.065 | 1.7 | 1.06 | 26.9 | 1384 | 2060 |
| 5310.01444 | 444.4 | 225 | 1110W | 0.786 | 20.0 | 0.090 | 2.3 | 0.065 | 1.7 | 1.11 | 28.2 | 1634 | 2432 |
| 5310.01535 | 535.3 | 271 | 1332W | 0.877 | 22.3 | 0.090 | 2.3 | 0.065 | 1.7 | 1.20 | 30.5 | 1925 | 2865 |
| 5310.01646 | 646.4 | 327 | 1609W | 0.960 | 24.4 | 0.090 | 2.3 | 0.065 | 1.7 | 1.29 | 32.8 | 2307 | 3433 |
| 5310.01777 | 777.7 | 394 | 1924W | 1.054 | 26.8 | 0.090 | 2.3 | 0.065 | 1.7 | 1.38 | 35.1 | 2728 | 4060 |
| 5310.01929* | 929.9 | 475 | 2318W | 1.230 | 31.2 | 0.090 | 2.3 | 0.065 | 1.7 | 1.56 | 39.6 | 3570 | 5313 |
| 5310.01111* | 1111.1 | 562 | 2745W | 1.328 | 33.7 | 0.115 | 2.9 | 0.095 | 2.4 | 1.77 | 44.9 | 4232 | 6298 |

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

