



Features

- Low Smoke Zero Halogen Design
- ROHS compliant insulation
- Thermoset insulation for enhanced thermal stability
- Specially formulated insulation for exceptional long term water resistance
- Superior flame retardance
- Excellent mechanical properties
- Tin-coated copper conductors for improved terminations and corrosion resistance
- Reduced size and weight for increased raceway capacity
- Easy strippability
- Low friction surface for reduced pulling tension

Performance Standards

- Insulation in accordance with ICEA and CSA standards
- cUL Listed Type RW90 (CSA 22.2 No.38) in accordance with CE Code
- Passes VW-1**
- Passes vertical flame test Type A as defined in ICEA S-95-658 (6.8.2)
- cUL Listed FT4/IEEE 1202 Vertical Flame test
- cUL Listed -ST1 per CSA 22.2 No. 38 and UL 1685 (FT4 Method), meeting smoke and flame requirements of NFPA 130 and NFPA 502
- cUL Listed 90°C for both wet and dry locations
- cUL Listed for sunlight resistance (black only)
- cUL Listed as gasoline and oil resistant Type II
- Meets the requirements of NFPA 130 & 502

Construction

Conductor: Annealed, tin-coated copper, Class "B" strand per ASTM B-8 & B-33 (Available as solid conductors when required)

Insulation: Flame retardant Low Smoke Zero Halogen crosslinked polyolefin

Separator Tape: Helically applied white polyester (where required)

Color: Black (Available in pigmented colors or colored stripes)

*Rated 90°C for normal operation in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

**#10 AWG and larger

Scope

Firewall® LSZH RW90 is a one conductor, unjacketed, power cable. Its tough thermoset construction allows for its use in demanding applications without additional jacketing protection. It is intended for low voltage power and lighting functions and may be installed in trays, ducts and conduits. RW90 walls meet CSA requirements and provide enhanced mechanical toughness.

Firewall® LSZH RW90 Power & Lighting Cable



Low Smoke Zero Halogen
90°C*, 600 Volt
CEC Type RW90
cUL Listed
NFPA 130 & 502

600 Volt

| Product Code | Conductor Size | Number of Strands | Insulation Thickness | | Nominal Overall Diameter | | Approximate Net Weight (Lbs/M) |
|--------------|----------------|-------------------|----------------------|------|--------------------------|------|--------------------------------|
| | | | (Inch) | (mm) | (Inch) | (mm) | |
| P46-2180 | 18 AWG | Solid | .030 | .76 | .10 | 2.6 | 10 |
| P46-2160 | 16 AWG | Solid | .030 | .76 | .11 | 2.9 | 13 |
| P46-2140 | 14 AWG | Solid | .030 | .76 | .13 | 3.2 | 18 |
| P46-2120 | 12 AWG | Solid | .030 | .76 | .14 | 3.6 | 27 |
| P46-2110 | 10 AWG | Solid | .030 | .76 | .16 | 4.2 | 39 |
| P46-0180 | 18 AWG | 7 | .030 | .76 | .11 | 2.7 | 10 |
| P46-0160 | 16 AWG | 7 | .030 | .76 | .12 | 3.0 | 14 |
| P46-0140 | 14 AWG | 7 | .030 | .76 | .13 | 3.3 | 19 |
| P46-0120 | 12 AWG | 7 | .030 | .76 | .15 | 3.8 | 28 |
| P46-0110 | 10 AWG | 7 | .030 | .76 | .18 | 4.6 | 40 |
| P46-0080 | 8 AWG | 7 | .045 | 1.14 | .24 | 6.1 | 70 |
| P46-0060 | 6 AWG | 7 | .045 | 1.14 | .27 | 6.9 | 105 |
| P46-0040 | 4 AWG | 7 | .045 | 1.14 | .32 | 8.1 | 160 |
| P46-0020 | 2 AWG | 7 | .045 | 1.14 | .38 | 9.7 | 240 |
| P46-0010 | 1 AWG | 19 | .055 | 1.40 | .44 | 11.2 | 305 |
| P46-0100 | 1/0 AWG | 19 | .055 | 1.40 | .48 | 12.2 | 375 |
| P46-0200 | 2/0 AWG | 19 | .055 | 1.40 | .52 | 13.2 | 470 |
| P46-0300 | 3/0 AWG | 19 | .055 | 1.40 | .57 | 14.5 | 590 |
| P46-0400 | 4/0 AWG | 19 | .055 | 1.40 | .63 | 16.0 | 730 |
| P46-0250 | 250 kcmil | 37 | .065 | 1.65 | .70 | 17.8 | 870 |
| P46-0350 | 350 kcmil | 37 | .065 | 1.65 | .80 | 20.3 | 1200 |
| P46-0500 | 500 kcmil | 37 | .065 | 1.65 | .93 | 23.6 | 1680 |
| P46-0600 | 600 kcmil | 61 | .080 | 2.03 | 1.05 | 26.7 | 2031 |
| P46-0750 | 750 kcmil | 61 | .080 | 2.03 | 1.14 | 28.9 | 2499 |

Note: CSA does not list Type RW90 smaller than 14 AWG. 16 AWG and 18 AWG are Listed FT4, 90°C Wet and Dry, NFPA 130 and NFPA 502 compliant.



Marmon Electrical
A Berkshire Hathaway Company