



Features

- Low Smoke
- Extremely rugged
- Superior mechanical properties
- Excellent electrical characteristics
- 40 year life
- All thermoset construction
- Flame retardant
- Heat, oil, chemical, moisture and abrasion resistant
- Reduced diameter
- Reduced weight
- Easily installed
- Zero halogen jacket
- Reduced combustible material

Performance Standards

- Conductors in accordance with ASTM B-8 and B-33
- Insulation in accordance with ICEA S-95-658 (formerly S-66-524)
- Jacket in accordance with UL 1277 Class XL/90°C and ICEA Publication T-33-655, Type II
- Cable passes IEEE-383 1974 vertical tray flame test (70,000 BTU/hr) and ICEA T-30-520 vertical tray flame test
- When specified, can be UL listed as Type TC

Construction

Conductor: Stranded, tin coated copper

Insulation: Proprietary heat, moisture, oil and chemical resistant, flame retardant cross-linked polyethylene (XLPE), ICEA S-95-658 Table 3-1 Column "B" thickness

Circuit Identification: ICEA Method 4, (ICEA Methods 1, 3 or 6 also available)

Fillers: (When required)

Binder Tape: Helically applied

Armor (Optional): Can be supplied with either a flat or corrugated bronze tape, helically applied

Jacket: Moisture, heat, ozone, sunlight, oil and chemical resistant, flame retardant, Low Smoke/Zero Halogen cross-linked polyolefin (XLPO)

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

Scope

Firewall® LS cross-linked polyethylene insulated Low Smoke/Zero Halogen Jacketed Signal Cable is engineered for use in railroad and transit vital signal circuits in tunnels, stations and other confined areas where high concentrations of smoke and acid gas are unacceptable. The cable is low smoke, very flame retardant and smaller diameter than standard signal cable.

Firewall[®]LS Signal Cable

(14 AWG, 19 Strand) ICEA Design

| Product Code | Number of Conductors | Insulation Thickness | | Outer Jacket Thickness (Mils) | Nominal Overall Diameter | | Approximate Net Weight (Lbs/M') |
|--------------|----------------------|----------------------|------|-------------------------------|--------------------------|-------|---------------------------------|
| | | (Inch) | (mm) | | (Inch) | (mm) | |
| R64-3024 | 2 | .030 | .76 | 45 | .37 | 9.40 | 85 |
| R64-3025 | 3 | .030 | .76 | 45 | .39 | 9.91 | 110 |
| R64-3026 | 4 | .030 | .76 | 45 | .42 | 10.67 | 130 |
| R64-3027 | 5 | .030 | .76 | 45 | .46 | 11.68 | 160 |
| R64-3028 | 7 | .030 | .76 | 45 | .50 | 12.70 | 180 |
| R64-3029 | 9 | .030 | .76 | 60 | .61 | 15.50 | 260 |
| R64-3030 | 10 | .030 | .76 | 60 | .66 | 16.76 | 290 |
| R64-3031 | 12 | .030 | .76 | 60 | .69 | 17.53 | 320 |
| R64-3032 | 19 | .030 | .76 | 60 | .80 | 20.32 | 460 |
| R64-3033 | 27 | .030 | .76 | 80 | .99 | 25.15 | 670 |
| R64-3034 | 37 | .030 | .76 | 80 | 1.11 | 28.19 | 890 |

(9 AWG, 19 Strand) ICEA Design

| Product Code | Number of Conductors | Insulation Thickness | | Outer Jacket Thickness (Mils) | Nominal Overall Diameter | | Approximate Net Weight (Lbs/M') |
|--------------|----------------------|----------------------|------|-------------------------------|--------------------------|-------|---------------------------------|
| | | (Inch) | (mm) | | (Inch) | (mm) | |
| R64-3046 | 2 | .030 | .76 | 45 | .48 | 12.19 | 180 |
| R64-3047 | 3 | .030 | .76 | 45 | .51 | 12.95 | 230 |
| R64-3048 | 4 | .030 | .76 | 60 | .59 | 14.99 | 310 |
| R64-3049 | 5 | .030 | .76 | 60 | .64 | 16.26 | 370 |
| R64-3050 | 7 | .030 | .76 | 60 | .70 | 17.78 | 450 |
| R64-3051 | 9 | .030 | .76 | 60 | .82 | 20.83 | 580 |
| R64-3053 | 12 | .030 | .76 | 80 | .96 | 24.38 | 770 |

(6 AWG, 7 Strand) ICEA Design

| Product Code | Number of Conductors | Insulation Thickness | | Outer Jacket Thickness (Mils) | Nominal Overall Diameter | | Approximate Net Weight (Lbs/M') |
|--------------|----------------------|----------------------|------|-------------------------------|--------------------------|-------|---------------------------------|
| | | (Inch) | (mm) | | (Inch) | (mm) | |
| R64-3006 | 2 | .045 | 1.14 | 60 | .68 | 17.27 | 330 |
| R64-3007 | 3 | .045 | 1.14 | 60 | .73 | 18.54 | 430 |
| R64-3008 | 4 | .045 | 1.14 | 60 | .79 | 20.07 | 540 |
| R64-3009 | 5 | .045 | 1.14 | 80 | .91 | 23.11 | 700 |



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company