

## Firewall® LS Signal Cable

XLPE Insulation  
Low Smoke, Zero Halogen  
XLPO Jacket

90°C\*, 600 Volt

Spec. RSS-9-013

### 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.

### 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

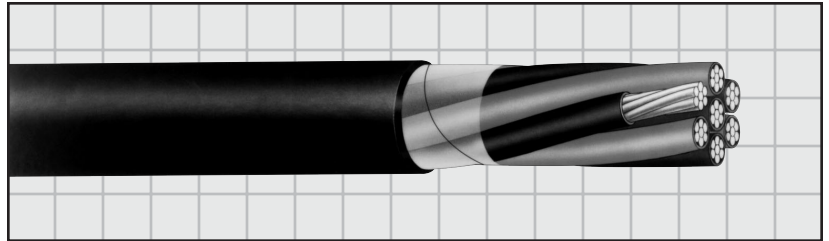
**Armor (Optional):**

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)

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**(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**

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**

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

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