



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

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)

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)	
R64-3103	2	.045	1.14	45	.43	10.92	110
R64-3104	3	.045	1.14	45	.45	11.43	135
R64-3105	4	.045	1.14	45	.50	12.70	165
R64-3106	5	.045	1.14	60	.57	14.48	215
R64-3107	7	.045	1.14	60	.62	15.75	240
R64-3108	9	.045	1.14	60	.73	18.54	315
R64-3109	10	.045	1.14	60	.79	20.07	360
R64-3110	12	.045	1.14	60	.81	20.57	390
R64-3111	19	.045	1.14	80	.99	25.15	600
R64-3112	27	.045	1.14	80	1.18	29.98	820
R64-3113	37	.045	1.14	80	1.32	33.53	1080

(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)	
R64-3114	2	.045	1.14	60	.57	14.48	220
R64-3115	3	.045	1.14	60	.61	15.49	280
R64-3116	4	.045	1.14	60	.66	16.76	350
R64-3117	5	.045	1.14	60	.73	18.54	430
R64-3118	7	.045	1.14	60	.79	20.07	510
R64-3119	9	.045	1.14	80	.97	24.64	690
R64-3120	12	.045	1.14	80	1.09	27.69	870

(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)	
R64-3121	2	.055	1.40	60	.72	18.29	350
R64-3122	3	.055	1.40	60	.76	19.30	460
R64-3123	4	.055	1.40	80	.88	22.35	610
R64-3124	5	.055	1.40	80	.96	24.38	740



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company