

Scope

Firewall® XL cross-linked polyethylene insulated Aerial Signal Cable is engineered for use in railroad and transit vital signal circuits. The cable is specifically designed for aerial applications where resistance to the outdoor environment is critical. It may be

installed on messenger, hangers, in conduit or duct systems, in wet or dry locations. The cable offers flame retardant insulation and is smaller in diameter than standard signal cables.

Features

- All thermoset construction
- Excellent electrical characteristics
- Superior mechanical properties
- 40 year life
- Very flame retardant
- Heat, oil, sunlight, ozone, moisture, chemical and abrasion resistant
- Reduced diameter
- Reduced weight
- Flexible
- Easily installed

Performance Standards

- Conductor 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 ICEA S-45-658 for heavy-duty neoprene
- Cable passes IEEE-383 1974 vertical tray flame test (70,000 BTU/hr) and ICEA T-30-520 vertical tray flame test
- Cable passes ICEA 210,000 BTU/hr vertical tray flame test (Standard T-29-520)

Construction

Conductor:

Stranded, tin coated copper
(Also available in solid conductor)

Insulation:

Proprietary heat, moisture and chemical resistant, flame retardant, cross-linked polyethylene (XLPE), in accordance with AAR aerial walls

Circuit Identification:

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

Fillers:

(When required)

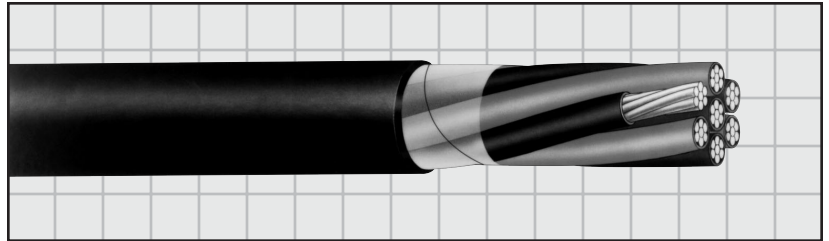
Binder Tape:

Helically applied

Jacket:

Moisture, heat, ozone, sunlight, oil and chemical resistant, flame retardant, heavy-duty neoprene (Also available in Low Smoke CSPE)

Firewall® XL
Aerial Signal Cable
 XLPE Insulation
 Neoprene Jacket
 90°C, 600 Volt



Spec. RSS-9-013

(14 AWG, 19 Strand) “Current” AAR Design

Product Code	Number of Conductors	Insulation Thickness		Outer Jacket Thickness (Mils)	Nominal Overall Diameter		Approximate Net Weight (Lbs/M')
		(Inch)	(mm)		(Inch)	(mm)	
R54-3230	2	.045	1.14	60	.46	11.68	130
R54-3231	3	.045	1.14	60	.48	12.19	155
R54-3232	4	.045	1.14	60	.53	13.46	185
R54-3233	5	.045	1.14	80	.61	15.49	250
R54-3234	7	.045	1.14	80	.66	16.76	280
R54-3235	9	.045	1.14	80	.77	19.56	355
R54-3236	10	.045	1.14	80	.83	21.08	400
R54-3237	12	.045	1.14	80	.86	21.84	435
R54-3238	19	.045	1.14	95	1.02	25.91	650
R54-3239	27	.045	1.14	95	1.22	30.99	880
R54-3240	37	.045	1.14	110	1.39	35.31	1190

(9 AWG, 19 Strand) “Current” AAR Design

R54-3241	2	.045	1.14	80	.61	15.49	260
R54-3242	3	.045	1.14	80	.65	16.51	320
R54-3243	4	.045	1.14	80	.71	18.03	390
R54-3244	5	.045	1.14	80	.77	19.56	470
R54-3245	7	.045	1.14	80	.83	21.08	560
R54-3246	9	.045	1.14	95	1.00	25.40	740
R54-3247	12	.045	1.14	95	1.12	28.45	920

(6 AWG, 7 Strand) “Current” AAR Design

R56-3110	2	.060	1.52	80	.78	19.81	410
R56-3111	3	.060	1.52	80	.83	21.08	520
R56-3112	4	.060	1.52	95	.94	23.88	670
R56-3113	5	.060	1.52	95	1.02	25.91	815