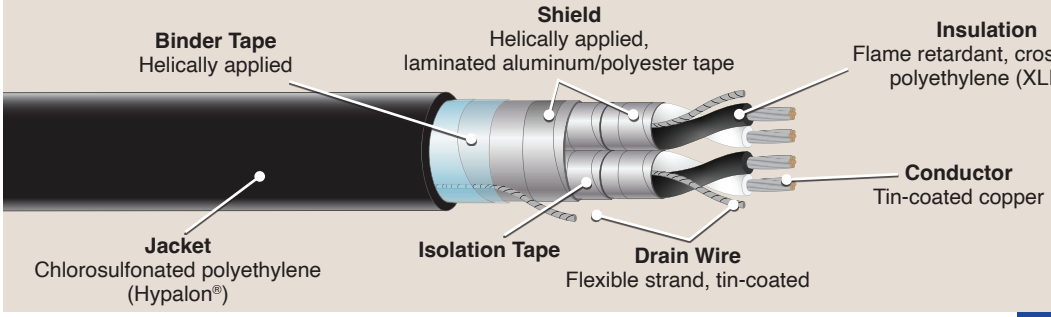
FIREWALL®

Firewall® III-C
Instrumentation Cable
Multi-Shielded Pairs With Overall Shield XLPE/CSPE (Hypalon®)



90°C*, 600 Volt
NEC Type TC
UL Listed

Spec. RSS-3-022

Features

- Thermoset insulation and jacket for enhanced thermal stability
- Specially formulated insulation for superior long term water resistance
- Extremely flame retardant
- Long term sustainability
- Excellent mechanical properties
- Tin-coated copper conductors for improved terminations and corrosion resistance
- Easy strippability for installation ease
- Shield to shield isolation system provided and verified by electrical testing

Scope

Firewall® III-C is a high quality commercial grade multi-pair tray cable with both thermoset insulation and jacket engineered to operate continuously in rugged environments. It may be installed in metal trays, conduits, or ducts. It is intended for use in critical circuits for instrumentation and controls where shielding from external EMI is required.

Performance Standards

- Insulation in accordance with XLPE requirements of ANSI/NEMA WC 57/ICEA S-73-532
- UL approved 90°C for both wet and dry locations
- Jacket in accordance with ANSI/NEMA WC 57/ICEA S-73-532
- Cable passes UL 1685 and IEEE 383-1974 Cable Tray Tests
- Single conductors pass UL VW-1 Flame Test
- UL Listed Type TC for Cable Tray Installation (UL 1277)
- UL Listed for Sunlight Resistance

Construction

- **Conductor:** Annealed, tin-coated copper, Class “B” strand (ASTM B8 & B33)
- **Insulation:** Proprietary heat, moisture, flame retardant, and radiation resistant crosslinked polyethylene (XLPE)
- **Pair Assembly:** Two insulated conductors twisted with a flexible strand tin-coated copper drain wire, a helically applied aluminum/polyester laminated tape shield, and an isolation tape
- **Cabling:** Required number of pairs cabled together
- **Circuit Identification:** One black and one white insulated single conductor in each pair with printed pair numbers on both singles for pair identification (alternate methods also available)
- **Fillers:** As applicable
- **Overall Shield System:** Helically applied aluminum/polyester laminated tape shield in continuous contact with a flexible strand, tin-coated copper drain wire
- **Binder Tape:** Helically applied
- **Jacket:** Black, chlorosulfonated polyethylene (CSPE) Hypalon®

RSCC® World Class Engineered Cable

Made in the USA

MARMON
Marmon Electrical
A Berkshire Hathaway Company

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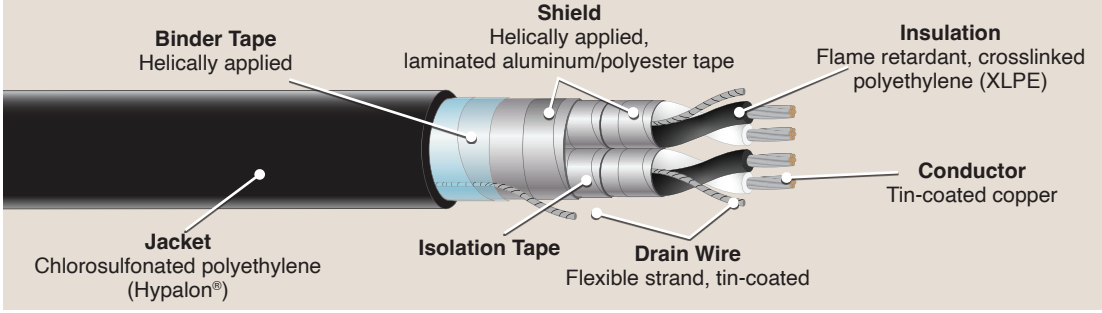

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Spec. RSS-3-022

18 AWG, 7 Strand

Product Code	Number of Pairs	Insulation Thickness (inch)	Insulation Thickness (mm)	Insulation Diameter (inch)	Insulation Diameter (mm)	Drain Wire Size/ Stranding	Jacket Thickness (inch)	Jacket Thickness (mm)	Nominal Overall Diameter (inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
I57-3190	2	0.025	0.635	0.100	2.540	20 AWG 10s	0.045	1.143	0.475	12.07	95
I57-3191	3	0.025	0.635	0.100	2.540	20 AWG 10s	0.045	1.143	0.505	12.83	120
I57-3192	4	0.025	0.635	0.100	2.540	20 AWG 10s	0.060	1.524	0.580	14.73	165
I57-3193	5	0.025	0.635	0.100	2.540	20 AWG 10s	0.060	1.524	0.635	16.13	195
I57-3194	7	0.025	0.635	0.100	2.540	20 AWG 10s	0.060	1.524	0.690	17.53	255
I57-3195	9	0.025	0.635	0.100	2.540	20 AWG 10s	0.080	2.032	0.914	23.22	360
I57-3196	12	0.025	0.635	0.100	2.540	20 AWG 10s	0.080	2.032	0.945	24.00	435
I57-3197	15	0.025	0.635	0.100	2.540	20 AWG 10s	0.080	2.032	1.045	26.54	525
I57-3198	19	0.025	0.635	0.100	2.540	20 AWG 10s	0.080	2.032	1.100	27.94	630
I57-3199	37	0.025	0.635	0.100	2.540	20 AWG 10s	0.080	2.032	1.470	37.34	1125

16 AWG, 7 Strand

Product Code	Number of Pairs	Insulation Thickness (inch)	Insulation Thickness (mm)	Insulation Diameter (inch)	Insulation Diameter (mm)	Drain Wire Size/ Stranding	Jacket Thickness (inch)	Jacket Thickness (mm)	Nominal Overall Diameter (inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
I46-7060	2	0.025	0.635	0.110	2.794	18 AWG 16s	0.045	1.143	0.510	12.95	120
I46-7061	3	0.025	0.635	0.110	2.794	18 AWG 16s	0.060	1.524	0.575	14.61	175
I46-7062	4	0.025	0.635	0.110	2.794	18 AWG 16s	0.060	1.524	0.625	15.88	215
I46-7063	5	0.025	0.635	0.110	2.794	18 AWG 16s	0.060	1.524	0.685	17.40	255
I46-7064	7	0.025	0.635	0.110	2.794	18 AWG 16s	0.060	1.524	0.745	18.92	330
I46-7065	9	0.025	0.635	0.110	2.794	18 AWG 16s	0.080	2.032	0.990	25.15	460
I46-7066	12	0.025	0.635	0.110	2.794	18 AWG 16s	0.080	2.032	1.025	26.04	565
I46-7067	15	0.025	0.635	0.110	2.794	18 AWG 16s	0.080	2.032	1.135	28.83	685
I46-7068	19	0.025	0.635	0.110	2.794	18 AWG 16s	0.080	2.032	1.195	30.35	830
I46-7069	37	0.025	0.635	0.110	2.794	18 AWG 16s	0.080	2.032	1.605	40.77	1505

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

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