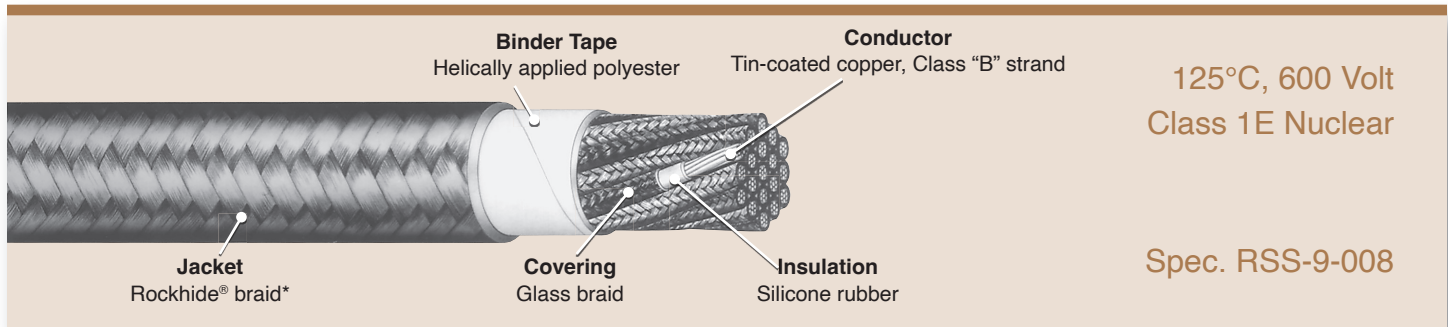


Firewall® SR

Instrumentation Cable

Multi-Conductor Unshielded (Silicone Rubber)

FIREWALL®



Features

- Nuclear qualified with a minimum 40-year thermal life expectancy at 125°C
- Radiation resistant (up to 200 megarads)
- Extremely flame retardant
- Extremely flexible for installation ease
- Excellent circuit integrity during flame conditions
- Full traceability
- Easy strippability for termination ease
- Tin-coated copper conductors for improved terminations, corrosion resistance and temperature endurance
- All singles pass a wet dielectric (tank) test prior to braid covering to verify electrical integrity
- All cables have printed sequential footage markers for improved inventory control

Scope

Firewall® SR Instrumentation Cable is a silicone rubber insulated construction specifically designed for high temperature applications within nuclear generating facilities. It is intended for use in harsh and demanding environments where temperature extremes preclude the use of standard cables. It may be installed in trays, ducts, conduits or in direct burial applications to perform a variety of signaling and related functions. *Designed for use on circuits where shielding from external electrostatic interference is not required.*

Performance Standards

- Silicone rubber insulation in accordance with ICEA S-19-81
- Class 1E qualified in accordance with IEEE 383-1974 and IEEE 323-1974 (RSCC Report QR-8802)
- Cable passes IEEE 383-1974 70,000 BTU/hr vertical tray flame test as modified by NRC Reg. Guide 1.131
- Cable passes ICEA T-29-520 210,000 BTU/hr vertical tray flame test
- Single conductors pass the vertical flame test specified in IEEE 383-1974 para. 2.5.6 (ICEA S-19-81 Section 6.19.6)
- Quality Assurance program in accordance with 10 CFR 50 Appendix B

Construction

Conductor: Annealed, tin-coated copper, Class “B” strand (ASTM B8 & B33)

Insulation: Proprietary heat, moisture and radiation resistant silicone rubber

Covering: Glass braid with high temperature finish

Circuit Identification: Up to 6/C, colored braids per ICEA Method 5, Table K-5. Over 6/C, printed number and name of color per ICEA Method 3, K-5 sequence.

Fillers: As applicable

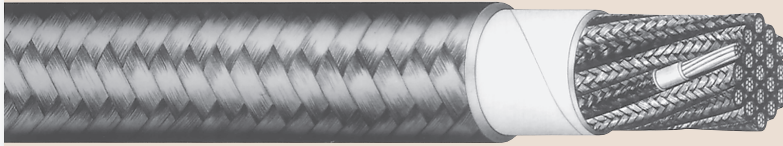
Binder Tape: Helically applied polyester

Overall Covering: Rockhide® braid* with high temperature finish

* Rockhide® is a proprietary blend of aramid and other high temperature synthetic fibers.

Firewall® SR Instrumentation Cable

Multi-Conductor Unshielded
(Silicone Rubber)



125°C, 600 Volt
Class 1E Nuclear

Spec. RSS-9-008

16 AWG Solid, 7 Strand

Product Code	Number of Conductors	Insulation Thickness		Individual Braid Thickness	Single Conductor Diameter	Overall Braid Thickness	Nominal Overall Diameter		Approximate Net Weight
		(inch)	(mm)	(Mils)	(inch)	(Mils)	(inch)	(mm)	(Lbs/M')
I48-3301	2	.030	.76	7.5	.14	40	.36	9.14	50
I48-3302	3	.030	.76	7.5	.14	40	.38	9.65	65
I48-3303	4	.030	.76	7.5	.14	40	.42	10.67	85
I48-3304	5	.030	.76	7.5	.14	40	.46	11.68	105
I48-3306	7	.030	.76	7.5	.14	40	.50	12.70	130
I48-3308	9	.030	.76	7.5	.14	40	.59	14.99	175
I48-3309	12	.030	.76	7.5	.14	40	.66	16.76	220
I48-3310	15	.030	.76	7.5	.14	40	.74	18.80	275
I48-3311	19	.030	.76	7.5	.14	40	.78	19.81	340
I48-3312	27	.030	.76	7.5	.14	40	.94	23.88	480
I48-3313	37	.030	.76	7.5	.14	40	1.06	26.92	650

18 AWG Solid, 7 Strand

Product Code	Number of Conductors	Insulation Thickness		Individual Braid Thickness	Single Conductor Diameter	Overall Braid Thickness	Nominal Overall Diameter		Approximate Net Weight
		(inch)	(mm)	(Mils)	(inch)	(Mils)	(inch)	(mm)	(Lbs/M')
I48-3288	2	.030	.76	7.5	.13	40	.34	8.64	40
I48-3289	3	.030	.76	7.5	.13	40	.36	9.14	50
I48-3290	4	.030	.76	7.5	.13	40	.39	9.91	65
I48-3291	5	.030	.76	7.5	.13	40	.43	10.92	80
I48-3293	7	.030	.76	7.5	.13	40	.46	11.68	105
I48-3295	9	.030	.76	7.5	.13	40	.55	13.97	140
I48-3296	12	.030	.76	7.5	.13	40	.62	15.75	170
I48-3297	15	.030	.76	7.5	.13	40	.68	17.27	215
I48-3298	19	.030	.76	7.5	.13	40	.72	18.29	265
I48-3299	27	.030	.76	7.5	.13	40	.87	22.10	370
I48-3300	37	.030	.76	7.5	.13	40	.98	24.89	500