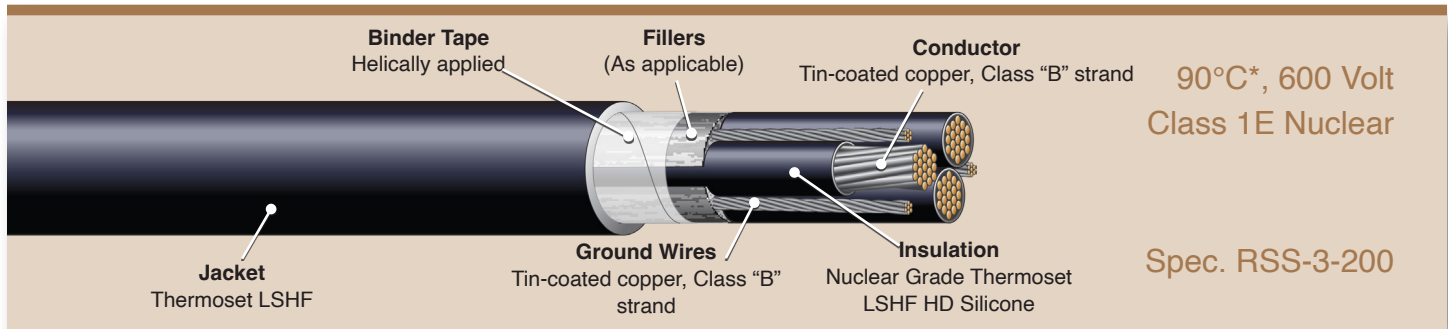


Firewall® LSHF

Safety Class Power Cable

(HD-SR/LSHF)



Features

- Complete Low Smoke Halogen Free (LSHF) Insulation and Jacket
- Thermoset insulation and jacket for enhanced thermal stability
- Extremely flame retardant
- Nuclear qualified with a minimum 60-year thermal life expectancy at 90°C
- Radiation resistant (up to 90 megarads)
- Full traceability
- Excellent mechanical properties, including flexible insulation and jacket materials
- Tin-coated copper conductors for improved terminations and corrosion resistance
- All insulated conductors pass a wet dielectric (tank) test prior to cabling to verify insulation integrity
- All jackets have printed sequential footage markers for improved inventory control
- Easy strippability for installation

Scope

RSCC's Firewall® LSHF Multi-Conductor Power Cable is a completely thermoset construction specifically designed for applications in Utility generating plants and substations. It is intended for use in harsh and demanding environments, including Class 1E nuclear applications. It may be installed in trays, ducts, conduits or in direct burial applications to perform a variety of low voltage power, lighting and related functions.

Performance Standards

- Insulation meets physical requirements of ICEA S-95-658 and S-73-532
- Jacket is in accordance with ICEA T-33-655 for Low Smoke Halogen Free Polymetric Jackets
- Class 1E qualified in accordance with IEEE 383-2003. (RSCC Report QR-1704)
- Cable passes IEEE-1202 vertical tray flame test with Low Smoke per UL 1685
- Insulated conductors pass UL VW-1 flame test
- 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 thermoset, heat, moisture, ozone, and radiation resistant flame retardant High Durometer (HD) Silicone

Circuit Identification: Printed numbers per ICEA Method 4, black colored insulation with printed numbers

Ground Wires(s): Annealed tin-coated copper Class "B" strand, sized to comply with NEC requirements

Fillers: As applicable

Binder Tape: Helically applied

Jacket: Colorable LSHF thermoset polyolefin

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



Made in the USA



Marmon Electrical
A Berkshire Hathaway Company

Firewall® LSHF

Safety Class Power Cable

(HD-SR/LSHF)



90°C*, 600 Volt
Class 1E Nuclear

Spec. RSS-3-200

Three Conductors

Product Code	Conductor Size	Number of Strands	Insulation Thickness (inch)	Insulation Thickness (mm)	No. & Size of Ground Wires	Jacket Thickness (Mils)	Nominal Overall Diameter (inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
P900143	14 AWG	7	.030	.76	3-18 AWG	45	0.39	9.91	130
P900123	12 AWG	7	.030	.76	3-16 AWG	45	0.43	10.92	175
P900103	10 AWG	7	.030	.76	3-14 AWG	45	0.48	12.19	245
P900083	8 AWG	7	.045	.76	3-14 AWG	60	0.64	16.26	345
P900063	6 AWG	7	.045	.76	3-12 AWG	60	0.72	18.29	490
P900043	4 AWG	7	.045	.76	3-12 AWG	60	0.82	20.83	675
P900023	2 AWG	7	.045	.76	3-10 AWG	80	0.99	25.15	1035
P900013	1 AWG	19	.055	1.40	3-10 AWG	80	1.11	28.19	1270
P900113	1/0 AWG	19	.055	1.40	3-10 AWG	80	1.20	30.48	1520
P901123	2/0 AWG	19	.055	1.40	3-10 AWG	80	1.29	32.77	1825
P900133	3/0 AWG	19	.055	1.40	3-8 AWG	80	1.40	35.56	2270
P901143	4/0 AWG	19	.055	1.40	3-8 AWG	80	1.52	38.61	2750
P902503	250 kcmil	37	.065	1.65	3-8 AWG	110	1.73	43.94	3345
P903503	350 kcmil	37	.065	1.65	3-6 AWG	110	1.95	49.53	4535
P905003	500 kcmil	37	.065	1.65	3-6 AWG	110	2.23	56.64	6160
P907503	750 kcmil	61	.080	2.03	3-5 AWG	110	2.68	68.07	9125

Four Conductors

Product Code	Conductor Size	Number of Strands	Insulation Thickness (inch)	Insulation Thickness (mm)	No. & Size of Ground Wires	Jacket Thickness (Mils)	Nominal Overall Diameter (inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
P900144	14 AWG	7	.030	.76	3-18 AWG	45	0.42	10.67	155
P900124	12 AWG	7	.030	.76	3-16 AWG	45	0.47	11.94	210
P900104	10 AWG	7	.030	.76	3-14 AWG	60	0.55	13.97	310
P900084	8 AWG	7	.045	.76	2-12 AWG	60	0.70	17.78	420
P900064	6 AWG	7	.045	.76	2-10 AWG	60	0.79	20.07	595
P900044	4 AWG	7	.045	.76	2-10 AWG	80	0.94	23.88	875
P900024	2 AWG	7	.045	.76	2-8 AWG	80	1.08	27.43	1280
P900014	1 AWG	19	.055	1.40	2-8 AWG	80	1.23	31.24	1575
P900114	1/0 AWG	19	.055	1.40	2-8 AWG	80	1.32	33.53	1895
P901124	2/0 AWG	19	.055	1.40	2-8 AWG	80	1.43	36.32	2295
P900134	3/0 AWG	19	.055	1.40	2-6 AWG	80	1.55	39.37	2855
P901144	4/0 AWG	19	.055	1.40	2-6 AWG	110	1.75	44.45	3585
P902504	250 kcmil	37	.065	1.65	2-6 AWG	110	1.91	48.51	7220
P903504	350 kcmil	37	.065	1.65	2-6 AWG	110	2.15	54.61	5645
P905004	500 kcmil	37	.065	1.65	2-5 AWG	110	2.46	62.48	7845

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