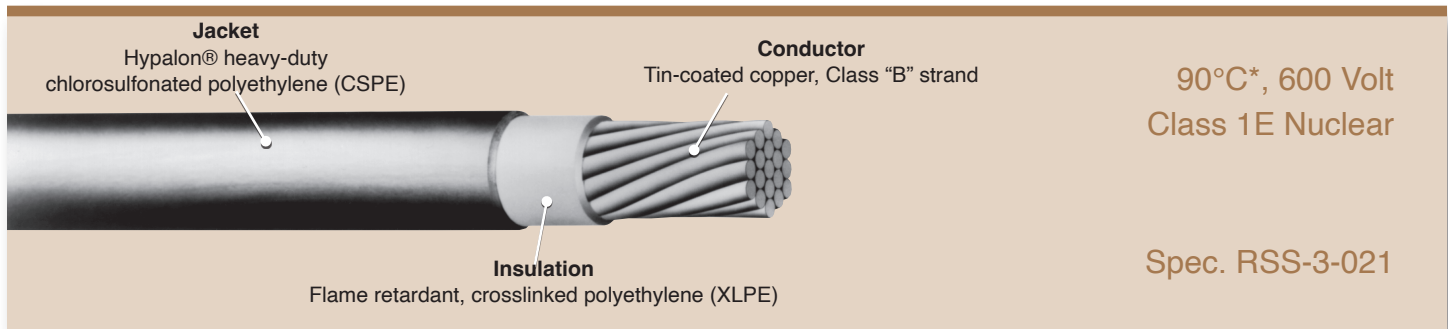


# Firewall® III-J

## Power Cable

XLPE/HD-CSPE (Hypalon®)



### Features

- Thermoset insulation for enhanced thermal stability
- Specially formulated insulation for superior long term water resistance
- Extremely flame retardant
- Nuclear qualified with a minimum 40-year thermal life expectancy at 90°C
- Radiation resistant (up to 200 megarads)
- Full traceability
- Excellent mechanical properties
- Tin-coated copper conductors for improved termination and corrosion resistance
- All singles pass a wet dielectric (tank) test prior to jacket to verify insulation integrity
- Easy strippability for installation ease

### Performance Standards

- Insulation in accordance with ICEA S-66-524
- Jackets in accordance with ICEA S-19-81 for Hypalon® heavy-duty chlorosulfonated polyethylene (CSPE)
- Class 1E qualified in accordance with IEEE 383-1974 and IEEE 323-1974 (RSCC Reports QR-5804 or QR-5805)
- 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
- Cable passes the vertical flame tests specified in IEEE 383-1974 para. 2.5.6 (ICEA S-19-81 Section 6.19.6) and UL VW-1
- 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, flame retardant crosslinked polyethylene

**Jacket:** Hypalon® black, heavy-duty chlorosulfonated polyethylene (HD-CSPE)

### Scope

Firewall® III-J is a jacketed, one conductor power cable 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 or lighting functions.

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

\*\* Sizes 9 AWG and smaller are not recommended for direct burial in earth.

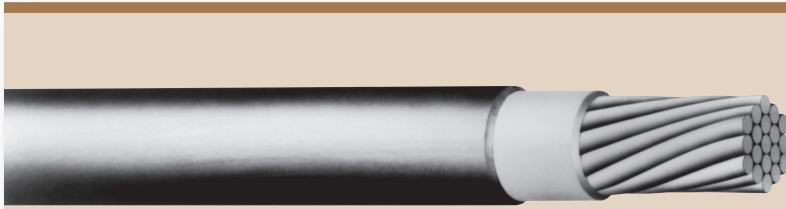


Made in the USA



Marmon Electrical  
A Berkshire Hathaway Company

**Firewall® III-J**  
**Power Cable**  
 XLPE/HD-CSPE (Hypalon®)



90°C\*, 600 Volt  
 Class 1E Nuclear

Spec. RSS-3-021

Product Code	Conductor Size	Number of Strands	Insulation Thickness (Mils)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch)	Approximate Net Weight (Lbs/1000 Ft)	Bend Radius		Maximum Straight Run Pull Tension (Lbs By Conductors)	Nominal Heat of Combustion (BTUs/Ft)
							Permanent Training (Inch)	During Installation (Inch)		
P62-3834	14 AWG	7	30	15	0.20	31	1.00	1.75	32	213
P62-3835	12 AWG	7	30	15	0.22	40	1.00	2.00	52	237
P62-3922	10 AWG	7	30	15	0.24	55	1.00	2.00	83	275
P62-3848	8 AWG	7	45	15	0.30	88	1.25	2.50	132	444
P62-3847	6 AWG	7	45	30	0.34	125	1.50	2.75	209	527
P62-5090	4 AWG	7	45	30	0.39	181	1.75	3.25	333	624
P62-3973	2 AWG	7	45	30	0.45	269	2.00	3.75	531	768
P62-5091	1 AWG	7	45	45	0.53	352	2.25	4.25	670	1128
P62-3902	1/0 AWG	19	55	45	0.57	429	2.50	4.75	843	1236
P62-3901	2/0 AWG	19	55	45	0.62	525	2.50	5.00	1064	1368
P62-5092	3/0 AWG	19	55	45	0.67	648	2.75	5.50	1343	1560
P62-5093	4/0 AWG	19	55	45	0.72	793	3.00	5.75	1691	1680
P62-3954	250 Kcmil	37	65	65	0.85	989	3.50	7.00	2000	2604
P62-3846	350 Kcmil	37	65	65	0.94	1310	4.00	7.75	2802	2760
P62-3806	500 Kcmil	37	65	65	1.07	1817	5.50	10.75	3996	3276
P62-5094	750 Kcmil	61	80	65	1.28	2675	6.50	13.00	6001	4308
P62-5580	1000 Kcmil	61	80	65	1.42	3528	7.25	14.25	7995	5280

\* 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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