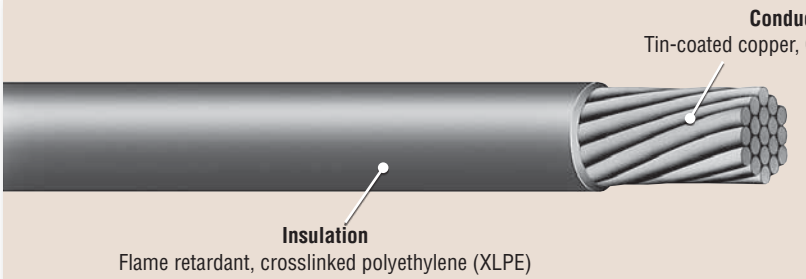
Firewall® III-XHHW
Power Cable
(XLPE)

RSCC Nuclear Cable
www.rsccnuclearcable.com



90°C*, 600 Volt
Class 1E Nuclear
NEC Type SIS**
NEC Type XHHW-2 UL Listed
Spec. RSS-3-021

Scope

Firewall® III-XHHW is a one conductor, unjacketed, nuclear Class 1E power cable. Its tough thermoset construction allows for its use in demanding applications without additional jacketing protection. It is intended for low voltage power and lighting functions and may be installed in trays, ducts and conduits.

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 terminations and corrosion resistance
- All cables pass a wet dielectric (tank) test to verify insulation integrity
- Reduced size and weight for increased raceway capacity
- Easy strippability for installation ease
- Low surface coefficient of friction insures installation ease with reduced pulling tension required

Performance Standards

- Insulation in accordance with ICEA standard S-66-524
- Class 1E qualified in accordance with IEEE-383 1974 and IEEE-323 (Rockbestos 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 210,000 BTU/hr vertical tray flame test (Standard T-29-520)
- 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
- UL listed as Type XHHW-2
- UL listed as Type SIS (14-4/0 AWG)**
- UL listed for "CT USE" on sizes 1/0 AWG & larger

Construction

Conductor: Annealed, tin-coated copper, Class "B" strand (ASTM B-8 & B-33)

Insulation: Proprietary heat, moisture and radiation resistant, flame retardant crosslinked polyethylene (ICEA column "B" thickness)

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

Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company

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Product Code	Conductor Size	Number of Strands	Insulation 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)		
P51-3350	14 AWG	7	30	0.14	19	0.75	1.25	32	76
P51-3328	12 AWG	7	30	0.16	28	0.75	1.25	52	94
P51-3340	10 AWG	7	30	0.18	42	0.75	1.50	83	131
P51-3513	8 AWG	7	45	0.24	70	1.00	2.00	132	228
P51-3488	6 AWG	7	45	0.27	105	1.25	2.50	209	287
P51-3514	4 AWG	7	45	0.32	157	1.50	3.00	333	336
P51-3515	2 AWG	7	45	0.38	241	1.75	3.50	531	432
P51-3516	1 AWG	7	45	0.44	305	2.00	4.00	670	564
P51-3517	1/0 AWG	19	55	0.48	376	2.25	4.25	843	600
P51-3518	2/0 AWG	19	55	0.52	480	2.50	4.75	1064	684
P51-3519	3/0 AWG	19	55	0.57	581	2.50	5.00	1343	756
P51-3520	4/0 AWG	19	55	0.63	724	2.75	5.25	1691	852
P51-3521	250 Kcmil	37	65	0.70	861	3.00	5.75	2000	1068
P51-3522	350 Kcmil	37	65	0.80	1186	3.25	6.50	2802	1272
P51-3523	500 Kcmil	37	65	0.93	1671	3.75	7.50	3996	1524
P51-3524	750 Kcmil	61	80	1.14	2500	5.75	11.50	6001	2208
P51-3776	1000 Kcmil	61	80	1.29	3331	6.50	13.00	7995	2916

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** 14 AWG - 4/0 AWG

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