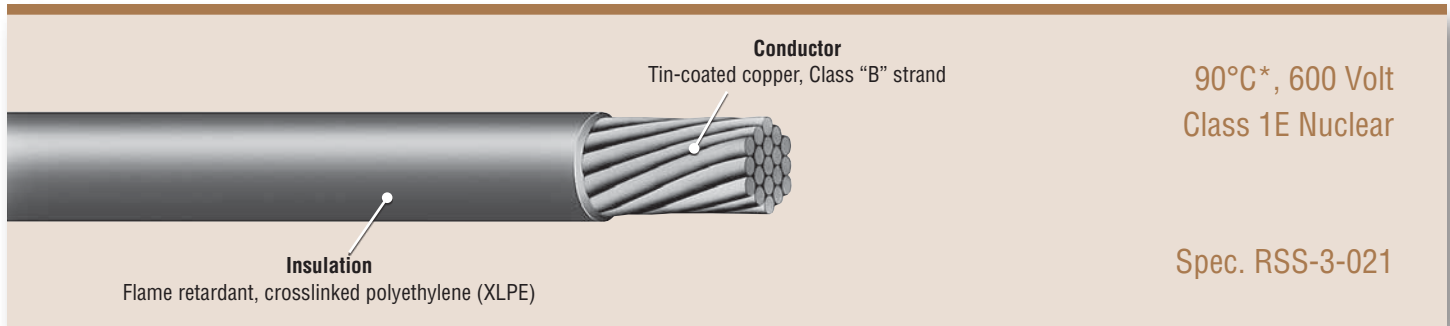


# Firewall® III-Unipass Power Cable (XLPE)



**RSCC Nuclear Cable**  
www.rsccnuclearcable.com



## 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 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

## Scope

Firewall® III-Unipass 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 to perform low voltage power and lighting functions and may be installed in trays, ducts, conduits or directly buried.\*\*

## 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
- Upon specific request, can be UL listed as Type RHH-RHW-2 and additionally marked "CT-USE" for 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 "A" 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.

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

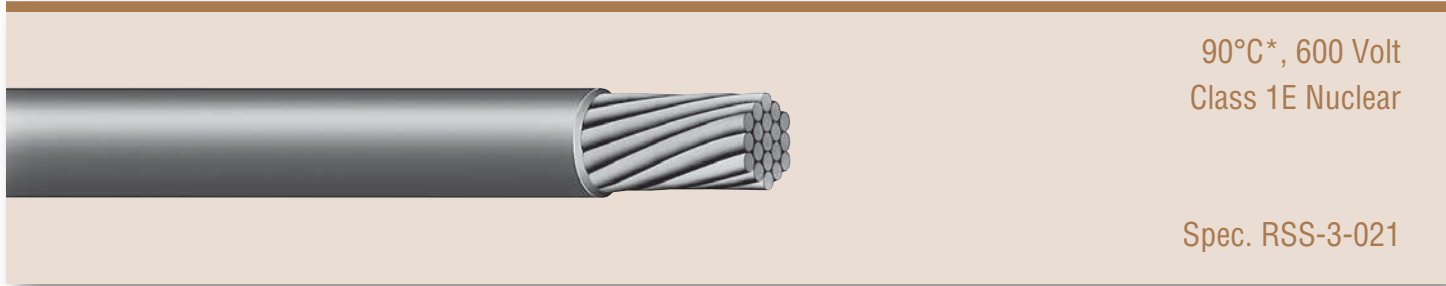


Marmon Engineered Wire & Cable LLC  
A Berkshire Hathaway Company

# Firewall® III-Unipass Power Cable (XLPE)



**RSCC Nuclear Cable**  
www.rsccnuclearcable.com



90°C\*, 600 Volt  
Class 1E Nuclear

Spec. RSS-3-021

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)		
P51-3553	14 AWG	7	45	0.17	24	0.75	1.50	32	136
P51-3554	12 AWG	7	45	0.19	33	1.00	1.75	52	154
P51-3555	10 AWG	7	45	0.21	47	1.00	1.75	83	179
P51-3556	8 AWG	7	60	0.27	77	1.25	2.25	132	312
P51-3557	6 AWG	7	60	0.31	113	1.25	2.50	209	383
P51-3558	4 AWG	7	60	0.35	167	1.50	3.00	333	456
P51-3559	2 AWG	7	60	0.41	252	1.75	3.50	531	564
P51-3560	1 AWG	7	80	0.49	327	2.00	4.00	670	816
P51-3561	1/0 AWG	19	80	0.53	401	2.25	4.25	843	900
P51-3562	2/0 AWG	19	80	0.58	493	2.50	4.75	1064	984
P51-3563	3/0 AWG	19	80	0.62	612	2.50	5.00	1343	1116
P51-3564	4/0 AWG	19	80	0.68	756	2.75	5.50	1691	1236
P51-3565	250 Kcmil	37	95	0.76	901	3.25	6.25	2000	1548
P51-3804	350 Kcmil	37	95	0.86	1241	3.50	7.00	2802	1908
P51-3805	500 Kcmil	37	95	0.99	1736	4.00	8.00	3996	2304
P51-3568	750 Kcmil	61	110	1.20	2566	6.00	12.00	6001	3000
P51-3569	1000 Kcmil	61	110	1.35	3407	6.75	13.50	7995	3828

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