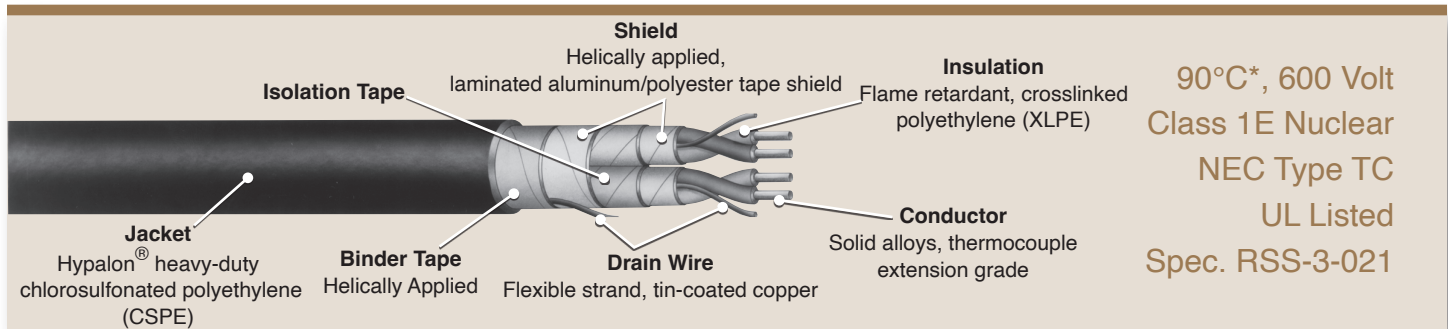


Firewall® III

Thermocouple Extension Cable

Multi-Shielded Pairs With Overall Shield (XLPE/HD-CSPE)



Features

- Thermoset insulation and jacket 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
- All singles 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 ease
- Shield to shield isolation system provided and verified by electrical testing

Performance Standards

- UL listed Type TC for cable tray installations (UL 1277)
- Insulation in accordance with ICEA S-66-524 and UL approved for 90°C applications in both wet & dry locations
- 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
- Single conductors pass 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
- ANSI standard MC 96.1
- Quality assurance program in accordance with 10 CFR 50 Appendix B
- Cable components in compliance with the maximum leachable lead level required by the EPA in 40 CFR, Part 261

Construction

Conductor: Solid alloys per ANSI MC 96.1 (Extension Grade, standard limits of error)

Insulation: Proprietary heat, moisture and radiation resistant flame retardant crosslinked polyethylene

Pair Assembly: Two insulated conductors twisted with a flexible strand tin coated copper drain wire, a helically applied aluminum/polyester laminated tape shield and an isolation tape

Cabling: Required number of pairs cabled together

Circuit Identification: Individual pair single conductors color coded to ANSI requirements by means of pigmented insulation with printed pair numbers on both singles for pair identification

Fillers: As applicable

Overall Shield System: Helically applied aluminum/polyester laminated tape shield in continuous contact with a flexible strand, tin-coated copper drain wire

Binder Tape: Helically applied

Jacket: Hypalon® heavy-duty chlorosulfonated polyethylene (HD-CSPE) colors to ANSI standard by type

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

**Special designs available upon request



Made in the USA

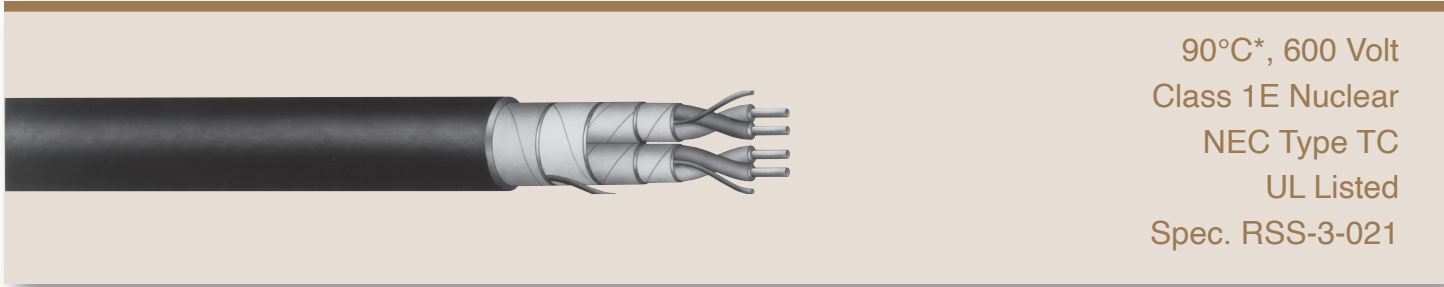


Marmon Electrical
A Berkshire Hathaway Company

Firewall® III

Thermocouple Extension Cable

Multi-Shielded Pairs With Overall Shield (XLPE/HD-CSPE)



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

16 AWG Solid

Product Code**	Number of Pairs	Conductor Type**	Insulation Thickness (inch) (mm)		Insulated Conductor Diameter (inch)	Drain Wire Size/Stranding	Jacket Thickness (Mils)	Nominal Overall Diameter (inch) (mm)		Approximate Net Weight (Lbs/M')
I67-3595	2	JX	.025	.64	.10	18 AWG (16/s)	45	.49	12.45	145
I67-3599	3	JX	.025	.64	.10	18 AWG (16/s)	60	.55	13.97	195
I67-3603	4	JX	.025	.64	.10	18 AWG (16/s)	60	.63	16.00	255
I67-3607	5	JX	.025	.64	.10	18 AWG (16/s)	60	.68	17.27	305
I67-3611	7	JX	.025	.64	.10	18 AWG (16/s)	60	.74	18.80	340
I67-3615	9	JX	.025	.64	.10	18 AWG (16/s)	80	.90	22.86	465
I67-3619	12	JX	.025	.64	.10	18 AWG (16/s)	80	1.01	25.65	585
I67-3623	15	JX	.025	.64	.10	18 AWG (16/s)	80	1.11	28.19	680
I67-3627	19	JX	.025	.64	.10	18 AWG (16/s)	80	1.17	29.72	795
I67-3631	37	JX	.025	.64	.10	18 AWG (16/s)	80	1.56	39.62	1420

18 AWG Solid

Product Code**	Number of Pairs	Conductor Type**	Insulation Thickness (inch) (mm)		Insulated Conductor Diameter (inch)	Drain Wire Size/Stranding	Jacket Thickness (Mils)	Nominal Overall Diameter (inch) (mm)		Approximate Net Weight (Lbs/M')
I67-3700	2	JX	.025	.64	.09	20 AWG (10/s)	45	.45	11.43	115
I67-3704	3	JX	.025	.64	.09	20 AWG (10/s)	45	.48	12.19	140
I67-3708	4	JX	.025	.64	.09	20 AWG (10/s)	60	.58	14.73	200
I67-3712	5	JX	.025	.64	.09	20 AWG (10/s)	60	.63	16.00	240
I67-3571	7	JX	.025	.64	.09	20 AWG (10/s)	60	.68	17.27	260
I67-3575	9	JX	.025	.64	.09	20 AWG (10/s)	60	.79	20.07	330
I67-3579	12	JX	.025	.64	.09	20 AWG (10/s)	80	.92	23.37	450
I67-3583	15	JX	.025	.64	.09	20 AWG (10/s)	80	1.02	25.91	520
I67-3587	19	JX	.025	.64	.09	20 AWG (10/s)	80	1.07	27.18	605
I67-3591	37	JX	.025	.64	.09	20 AWG (10/s)	80	1.42	36.07	1060

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

** **Product Code Sequence:** Codes for other alloy combinations can be obtained by applying the following numbering sequence:

Type	Product Code
EX	Add "1" to above "JX" code
KX	Add "2" to above "JX" code
TX	Add "3" to above "JX" code

Example: I67-3532 = 2 PAIR 16 AWG Type "EX"

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