

Micatemp® PHC Pressurizer Heater Cable (MICA)

250°C, 600 Volt
Class 1E Nuclear
(Non-LOCA Rated)

Spec. RSS-5-311

Scope

Micatemp® PHC is an inorganically insulated cable specifically designed for use as a pressurizer heater power lead in “PWR” nuclear reactors. This Class 1E

(non-LOCA) rated cable has superior high temperature performance and is capable of withstanding extremely high radiation exposures.

Features

- 40-year thermal life expectancy at 250°C (minimum 5 years @ 400°C)
- Radiation resistant (up to 1000 megarads)
- Class 1E rated with full traceability (non-LOCA)
- Flame retardant
- Extremely flexible for installation ease
- Easy strippability for termination ease
- Nickel-coated copper conductors for improved corrosion resistance and temperature endurance

Performance Standards

- UL listed for AWM Style 5107
- Passes IEEE-383 1974 70,000 BTU/hr vertical tray flame test
- Quality Assurance program in accordance with 10 CFR 50 Appendix B

Construction

Conductor:

Flexible strand, nickel-coated copper

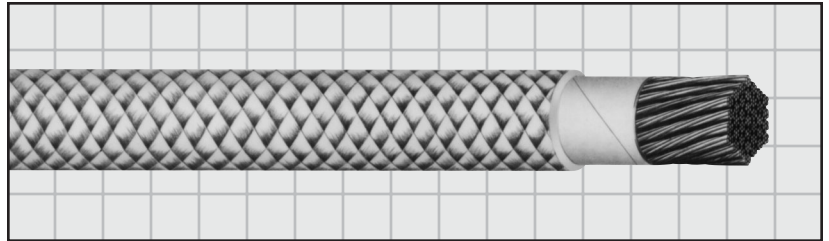
Insulation:

High grade reinforced MICA tapes

Overall Covering:

Glass braid with high temperature finish

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Product Code	Conductor Size (AWG)	Number of Strands	Approximate Insulation Thickness		Braid Thickness (Mils)	Nominal Diameter		Approximate Net Weight (Lbs/M')
			(Inch)	(mm)		(Inch)	(mm)	
X18-0140	14	19	.025	.76	7.5	.13	3.35	20
X18-0120	12	19	.025	.76	7.5	.15	3.78	28
X18-0110	10	49	.025	.76	7.5	.22	5.46	45
X18-0080	8	133	.030	.76	15	.25	6.90	70
X18-0060	6	133	.030	.76	15	.29	7.44	105
X18-0040	4	133	.030	.76	15	.35	8.79	160
X18-0020	2	665	.035	.89	20	.44	11.2	265
X18-0010	1	817	.035	.89	20	.48	12.1	320
X18-0100	1/0	1045	.035	.89	20	.53	13.3	365
X18-0200	2/0	1330	.035	.89	20	.58	14.7	460
X18-0300	3/0	1665	.035	.89	20	.63	16.1	585
X18-0400	4/0	2109	.035	.89	20	.70	17.8	730