

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED, ONE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

18 August 1989

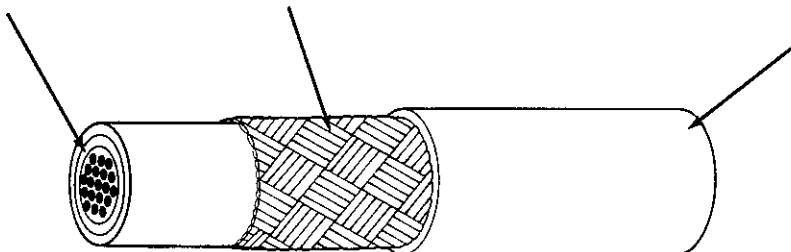
150°C

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRES - 55A6768

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CABLE CONSTRUCTION DETAILS							
PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A6931-18-*	18	38	.006	.008	.103	.108	13.3

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 ACCELERATED AGING: 300 ± 3°C for 7 hours
 BLOCKING: 200 ± 3°C for 6 hours
 DIELECTRIC WITHSTAND: 1500 volts, 60 Hz
 FLAMMABILITY:
 Procedure 1, 3 seconds (maximum); 3 in. (maximum);
 no flaming of facial tissue
 JACKET COLOR: White preferred
 JACKET ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile Strength, 5000 lbf/in² (minimum)
 JACKET FLAWS:
 Spark Test, 1000 volts, 60 Hz (rms), 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200 ± 3°C for 168 hours
 LOW TEMPERATURE-COLD BEND: -65 ± 5°C for 4 hours
 SHIELD COVERAGE: 85% (minimum)
 CROSSLINKED VERIFICATION: 300 ± 3°C for 6 hours
 VOLTAGE WITHSTAND TEST: (After Accelerated Aging, Immersion, Life Cycle, Low Temperature-Cold Bend and Crosslinked Verification) 1000 volts, 60 Hz, 1 minute

PART NUMBER:
 The "*" in the part number above shall be replaced by color code designators in accordance with MIL-STD-681 with a dash separating the component wire color from the jacket color.
 Example:
 White component wire ; white jacket:
 55A6931-18-9-9

NOTE: Nominal values are for information only.
 Nominal values are not requirements.

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 W&C DEPT

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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