

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

18 August 1989

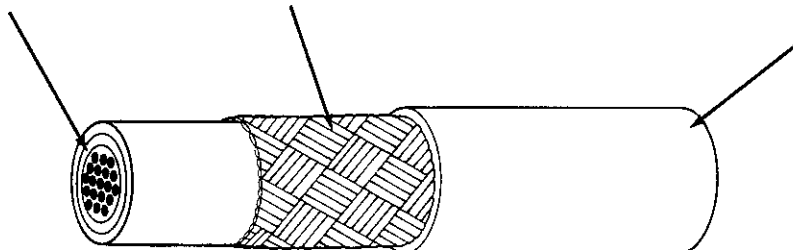
150°C

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/in<sup>2</sup> (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.

RECEIVED  
 AUG 28 1989  
 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.

**Raychem**  
 Raychem Corporation  
 300 Constitution Drive, Menlo Park, California 94025-1165  
 415) 361 3333 TWX 910 373 1728