

SPECIFICATION SHEET

55A6843

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED, THREE CONDUCTOR, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT

26 June 1989

200°C

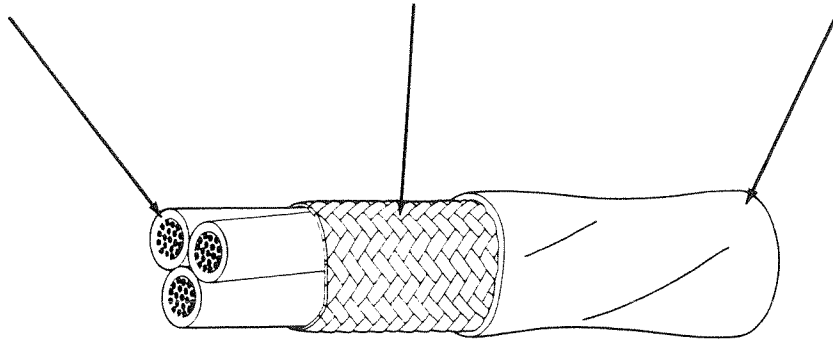
Revision 3

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 - 55A0113

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS ( $\pm .0004$ inch)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
			55A6843-22-*	22	.0015	.006	
55A6843-20-*	20	.0015	.006	.008	.131	.138	18.4
55A6843-16-*	16	.0015	.006	.008	.170	.178	32.4

(B)

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

CROSSLINKED VERIFICATION: 300  $\pm$  5°C for 7 hours

BLOCKING: 200  $\pm$  5°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, 1500 volts, 60 Hz (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 230  $\pm$  5°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65  $\pm$  5°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST: (After Crosslinked Verification, Immersion, Life Cycle, and Low Temperature-Cold Bend) 1000 volts, 60 Hz, 1 minute

PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a slash separating component wire colors and a dash separating the component wire colors from the jacket color.

Example:

AWG 22, white, blue and orange component wires, white jacket: 55A6843-22-9/6/3-9.

This construction meets the requirements of M27500-AWGSS3G23, less identification.

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

**Raychem**

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