

SPECIFICATION SHEET

55A6125

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

13 August 1986

150°C

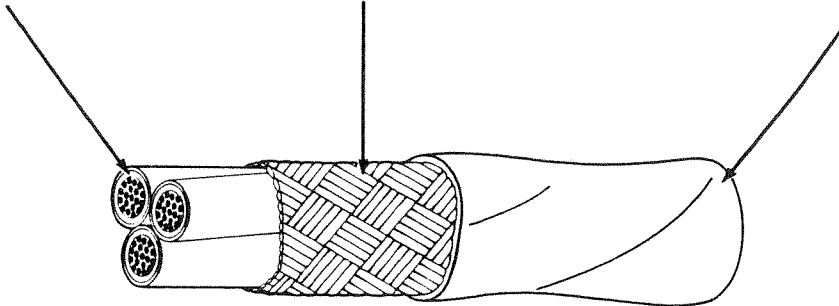
Revision A

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 - 55A0816

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 1/	NOMINAL 1/	MAXIMUM	
55A6125-26-*	26	38	.006	.008	.118	.125	11.3
55A6125-24-*	24	38	.006	.008	.129	.136	14.4
55A6125-22-*	22	38	.006	.008	.142	.149	18.8
55A6125-20-*	20	38	.006	.008	.159	.167	25.0
55A6125-18-*	18	38	.006	.008	.183	.191	33.6
55A6125-16-*	16	38	.006	.008	.200	.209	41.1

1/ Nominal values are for information only. Nominal values are not requirements.

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

WATER LOCKING: 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 ± 3°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 300 ± 3°C for 6 hours

VOLTAGE WITHSTAND TEST: (After Accelerated Aging, Immersion, Life Cycle, Low Temperature-Cold Bend and Thermal Shock) 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 20; white, black and red component wires; white jacket: 55A6125-20-9/0/2-9.

This construction meets the requirements of M27500-AWGSN3T23, less identification.

**Raychem**

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025  
415) 361 3333 TWX 910 373 1205

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.