

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

28 June 1985

Revision A

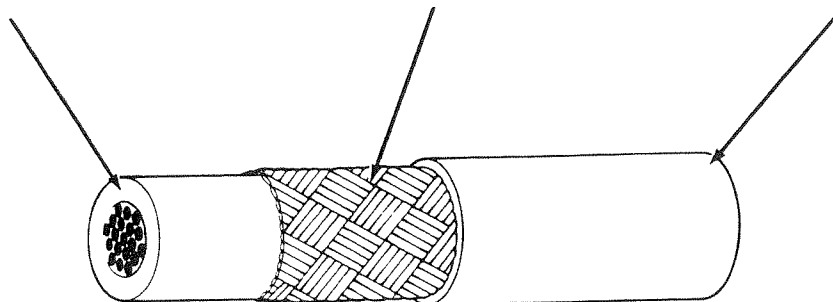
200°C

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

COMPONENT WIRE - 55A0113

SHIELD - NICKEL-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 (lbs/1000 ft.)
			MINIMUM	NOMINAL 1/	NOMINAL 1/	MAXIMUM	
55A1113-30-*	30	38	.006	.008	.057	.062	3.4
55A1113-28-*	28	38	.006	.008	.060	.065	3.9
55A1113-26-*	26	38	.006	.008	.065	.070	4.7
55A1113-24-*	24	38	.006	.008	.070	.075	5.8
55A1113-22-*	22	38	.006	.008	.076	.081	7.2
55A1113-20-*	20	38	.006	.008	.084	.089	9.4
55A1113-18-*	18	38	.006	.008	.094	.099	12.6
55A1113-16-*	16	38	.006	.008	.102	.108	15.2
55A1113-14-*	14	38	.006	.008	.119	.125	21.4
55A1113-12-*	12	38	.006	.008	.137	.143	29.8

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

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 psi (minimum)

JACKET FLAWS:

Spark Test, 1000 volts, 60 Hz (rms), 100% test

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

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°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-883C with a dash separating the component wire color from the jacket color.

Example:

AWG 20, white component wire, white jacket:  
55A1113-20-9-9.

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**

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