

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

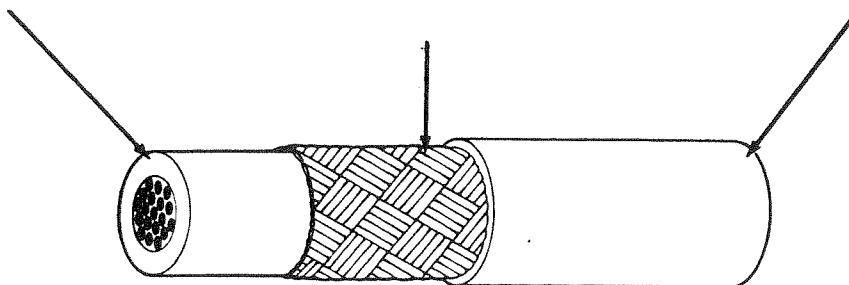
28 February 1985

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 WIRE - 55A0114

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

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	
			55A1114-30-*	30	38	.006	
55A1114-28-*	28	38	.006	.008	.060	.065	3.9
55A1114-26-*	26	38	.006	.008	.065	.070	4.6
55A1114-24-*	24	38	.006	.008	.070	.075	5.5
55A1114-22-*	22	38	.006	.008	.076	.081	6.9
55A1114-20-*	20	38	.006	.008	.084	.089	9.0
55A1114-18-*	18	38	.006	.008	.094	.099	12.0
55A1114-16-*	16	38	.006	.008	.102	.108	14.6

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

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: 200 ± 3°C for 168 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-681 with a dash separating the component wire color from the jacket color.

Example:

AWG 20, white component wire, white jacket:

55A1114-20-9-9.

**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 INVITATION FOR BID.