

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

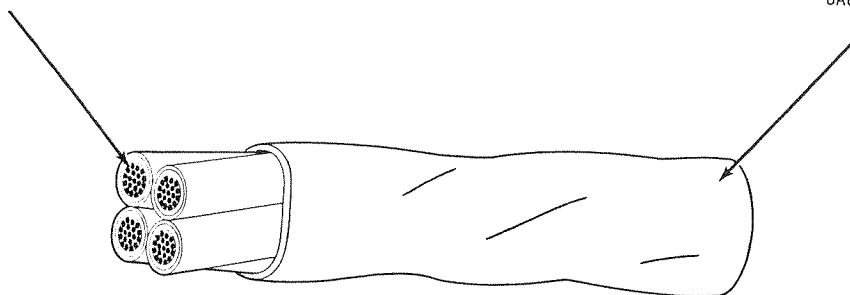
22 March 1983

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 WIRES - 55A0812

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



PART NUMBER	CONDUCTOR SIZE (AWG)	CABLE CONSTRUCTION DETAILS				MAXIMUM WEIGHT (lb/1000 ft.)
		JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		
		MINIMUM	NOMINAL <sup>1/</sup>	NOMINAL <sup>1/</sup>	MAXIMUM	
55A4842-26-*	26	.006	.008	.113	.132	9.3
55A4842-24-*	24	.006	.008	.125	.147	12.0
55A4842-22-*	22	.006	.008	.139	.164	16.8
55A4842-20-*	20	.006	.008	.159	.187	23.8
55A4842-18-*	18	.006	.008	.185	.219	34.6
55A4842-16-*	16	.006	.008	.205	.242	43.2
55A4842-14-*	14	.007	.009	.248	.293	64.4
55A4842-12-*	12	.007	.009	.289	.342	94.8

<sup>1/</sup> 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)  
 LIFE CYCLE: 230 ± 3°C for 500 hours  
 LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

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, red and blue component wires; white jacket:  
 55A4842-20-9/0/2/6-9