

# SPECIFICATION CONTROL DRAWING

**55A6904**

**TITLE** FIVE CONDUCTOR CABLE, JACKETED,  
LIGHTWEIGHT, 600 VOLT

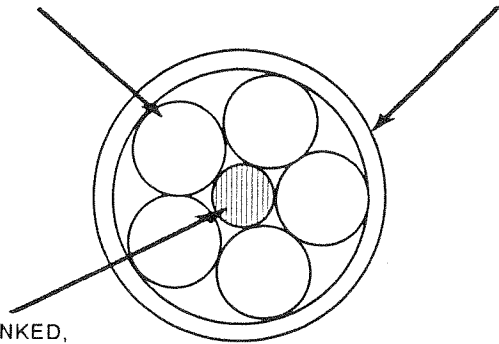
**Date** 4-16-97

**Revision** A

This specification sheet forms a part of the latest issue of Raychem Specification 55A .

COMPONENT WIRES - 55A0111

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



FILLER - RADIATION-CROSSLINKED,  
MODIFIED ETFE

FILAMENT BINDER AS REQUIRED

### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A6904-26-*	26	.006	.008	.102	.108	9.5
55A6904-24-*	24	.006	.008	.116	.122	13.0
55A6904-22-*	22	.006	.008	.132	.139	17.5
55A6904-20-*	20	.006	.008	.151	.159	25.8
55A6904-18-*	18	.006	.008	.178	.187	37.8
55A6904-16-*	16	.006	.008	.200	.210	47.9
55A6904-14-*	14	.007	.009	.248	.260	74.1
55A6904-12-*	12	.007	.009	.296	.311	110.

### 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 (rms), 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)  
 LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours  
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:  
 The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire color from the jacket color.  
 Example: AWG 24, white, blue, orange, green and red component wires; white jacket:  
 55A6904-24-9/6/3/5/2-9

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

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.