

# SPECIFICATION CONTROL DRAWING

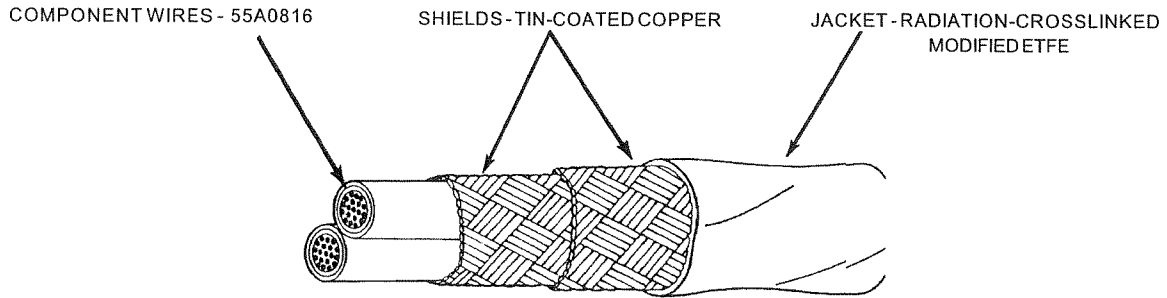
55AC6868

TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED,  
NORMAL WEIGHT, 600 VOLT

Date 9/26/01

Revision A

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



### CABLE CONSTRUCTION DETAILS

PARTNUMBER	CONDUCTOR SIZE (AWG)	1ST SHIELD SIZE (AWG)	2ND SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft.)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55AC6868-24-*	24	38	38	.005	.010	.140	.147	18.8
55AC6868-22-*	22	38	38	.005	.010	.150	.158	21.9
55AC6868-20-*	20	38	38	.005	.010	.166	.174	27.0

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

**VOLTAGE RATING: 600 volts (rms)**

**BLOCKING: 200 ± 3°C for 6 hours**

**CROSSLINKED VERIFICATION: 300 ± 5°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)

**JACKET FLAWS:**

Spark Test, 1500 volts (rms), 100% test

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

**LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours**

**SHIELD COVERAGE: 90% (minimum) (each)**

**VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):**

1000 volts (rms), 60 Hz, 1 minute

**PARTNUMBER:**

The "\*" in the part numbers above shall be replaced by a color code designator with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 22, white, white with blue stripe, component wires; white jacket; 55AC6868-22-9/96-9

This cable shall meet all constructional requirements of M27500 (AWG SN2V23).

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.