

# SPECIFICATION CONTROL DRAWING

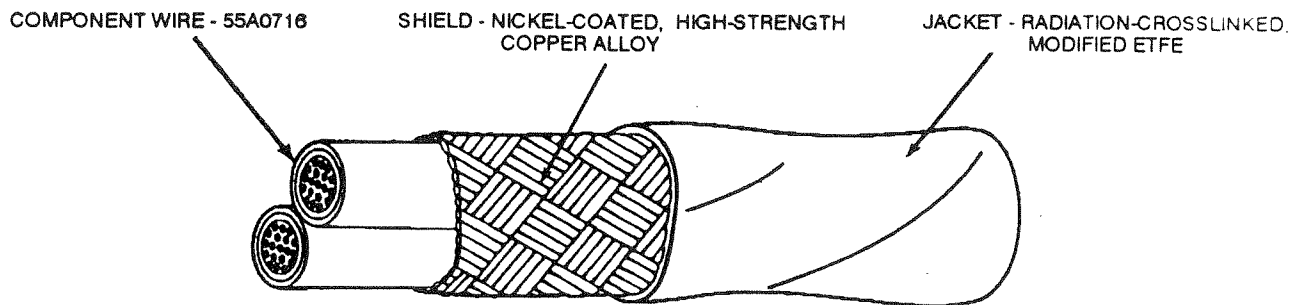
55A7027

TITLE TWO CONDUCTOR, SHIELDED, JACKETED

Date 12-21-90

Revision

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A7027-26-*	26	38	.006	.008	.135	.142	12.6
55A7027-24-*	24	38	.006	.008	.145	.152	14.7
55A7027-22-*	22	38	.006	.008	.157	.165	17.5
55A7027-20-*	20	38	.006	.008	.173	.182	22.0
55A7027-18-*	18	38	.006	.008	.193	.203	28.8
55A7027-16-*	16	38	.006	.008	.207	.217	33.6

### 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 or facial tissue

**JACKET COLOR: White preferred**

**JACKET ELONGATION AND TENSILE STRENGTH:**

Elongation, 50% (minimum)

Tensile Strength, 5000 lb/in<sup>2</sup> (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 ± 3°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 with slashes separating component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 20, white and black component wires white jacket: 55A7027-20-9/0-9.

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

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

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

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