

# SPECIFICATION CONTROL DRAWING

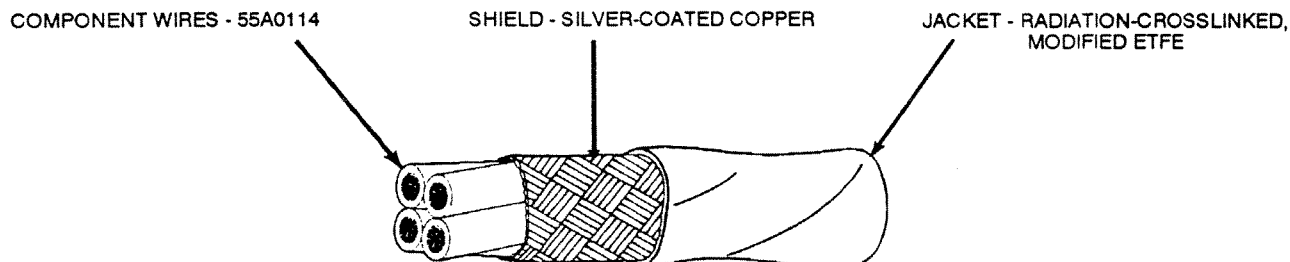
**55A6417**

TITLE FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date 3-22-93

Revision C

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-C-27500 as applicable.



## CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6417-30-*	30	38	.005	.010	.091	.104	7.7
55A6417-28-*	28	38	.005	.010	.098	.113	9.3
55A6417-26-*	26	38	.005	.010	.110	.127	12.0
55A6417-24-*	24	38	.005	.010	.123	.141	15.4
55A6417-22-*	22	38	.005	.010	.137	.159	20.1
55A6417-20-*	20	38	.005	.010	.154	.179	27.4

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

AGING STABILITY: 230 ± 5°C for 96 hours

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 lb/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1500 volts (rms), 60 Hz, 100% test

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

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

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 230 ± 5°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 colors from the jacket color.

Example: AWG 20, white, blue, orange and green  
component wires; white jacket:  
55A6417-20-9/6/3/5-9NOTE: Nominal values are for information only.  
Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSC4S23. less identification.

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

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

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