

# SPECIFICATION CONTROL DRAWING

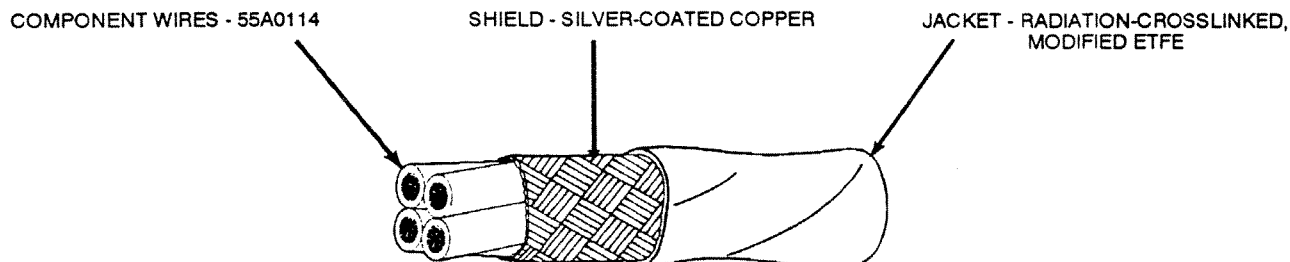
55A6417

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:  
 55A6417-20-9/6/3/5-9

NOTE: 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.