

# SPECIFICATION CONTROL DRAWING

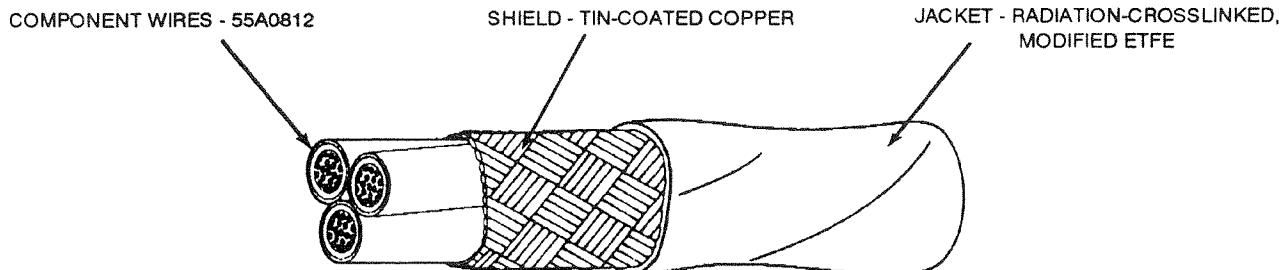
55A6609

TITLE THREE CONDUCTOR CABLE, SHIELDED, JACKETED

Date 1-29-92

Revision E

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6609-24-*	24	38	.005	.010	.130	.137	14.7
55A6609-22-*	22	38	.005	.010	.141	.148	18.1
55A6609-20-*	20	38	.005	.010	.158	.166	23.9
55A6609-18-*	18	38	.006	.011	.184	.193	33.3
5566609-16-*	16	38	.006	.011	.199	.209	39.9
55A6609-14-*	14	38	.007	.012	.238	.250	57.8

### ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°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 lbf/in<sup>2</sup> (minimum)  
 JACKET FLAWS:  
 Spark Test, 1500 volts (rms), 60 Hz, 100% test  
 Impulse Dielectric Test, 8.0 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 shall be replaced by color code designators with a slash separating the component wires and a dash separating the component wire color from the jacket color.  
 Example: AWG 20, white, blue and orange component wires; white jacket: 55A6609-20-9/6/3-9

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

This construction meets all the requirements of M27500-AWGSP3T23, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-661.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

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