

# SPECIFICATION CONTROL DRAWING

TITLE

CABLE, TWO CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT

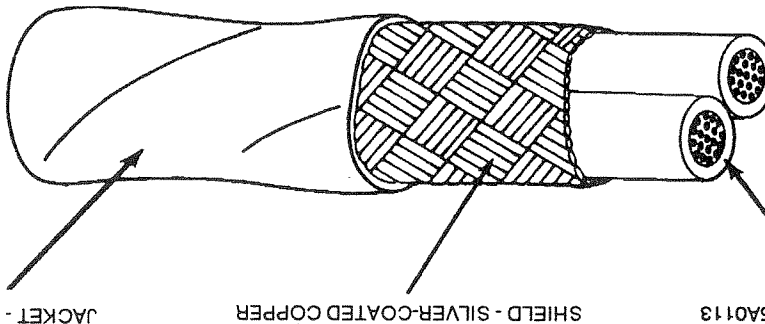
Date

1-30-91

Revision

B

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 (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL MAXIMUM		
55A6874-22*	22	38	.005	.008	.119	.125	12.2
55A6874-20*	20	38	.005	.008	.133	.140	16.2
55A6874-18*	18	38	.005	.008	.153	.161	21.9
55A6874-16*	16	38	.006	.008	.169	.177	26.6
55A6874-14*	14	38	.006	.008	.203	.213	38.4
55A6874-12*	12	38	.006	.009	.241	.253	55.1

### ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms)  
 BLOCKING: 200 ± 3°C for 6 hours  
 CROSSLINKED VERIFICATION: 300 ± 5°C for 7 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

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

This construction meets all the requirements of M27500-AWGS2523, less identification.

LOW TEMPERATURE-COLD BEND: -65 ± 5°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum)  
 THERMAL SHOCK: 230 ± 5°C for 4 hours  
 VOLTAGE WITHSTAND TEST: (After Crosslinked Verification, Immersion, and Low-Temperature-Cold Bend)  
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:  
 The \*\*\* in the part numbers shall be replaced by color code  
 designators with slashes separating the component wire colors  
 and a dash separating the component wire colors from the jacket  
 color.  
 Example: AWG 20, white and blue component wire colors;  
 white jacket: 55A6874-20-9/5-9

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.  
 DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.



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