

# SPECIFICATION CONTROL DRAWING

**55A7257**

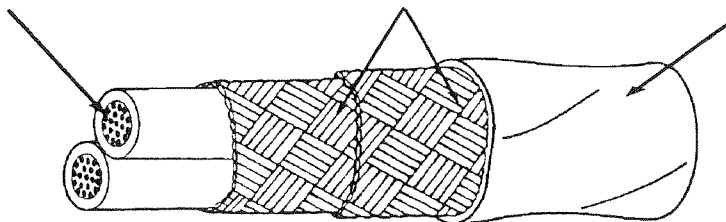
TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED

Date 9-27-94

Revision

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

COMPONENT WIRES - 55A0112      SHIELDS - SILVER-COATED COPPER      JACKETS - RADIATION-CROSSLINKED, MODIFIED ETFE



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7257-28-*	28	38	38	.005	.010	.104	.109	10.7
55A7257-26-*	26	38	38	.005	.010	.114	.120	12.8
55A7257-24-*	24	38	38	.005	.010	.124	.130	15.2
55A7257-22-*	22	38	38	.005	.010	.136	.143	18.2
55A7257-20-*	20	38	38	.005	.010	.150	.158	22.9
55A7257-18-*	18	38	38	.006	.011	.170	.179	29.7
55A7257-16-*	16	38	38	.006	.011	.186	.195	35.2
55A7257-14-*	14	38	38	.007	.012	.222	.233	49.3
55A7257-12-*	12	38	38	.007	.012	.258	.271	67.2

### 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 conductor to shield,  
 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, 6.0 kV (peak), 100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum) (each)  
 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 component wire colors and a dash separating the component wire colors from the jacket color.  
 Example: AWG 22, white and black component wires;  
 white jacket: 55A7257-22-9/0-9

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

This construction meets all the requirements of M27500-AWGSR2W23, 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.

## Raychem

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