

SPECIFICATION CONTROL DRAWING

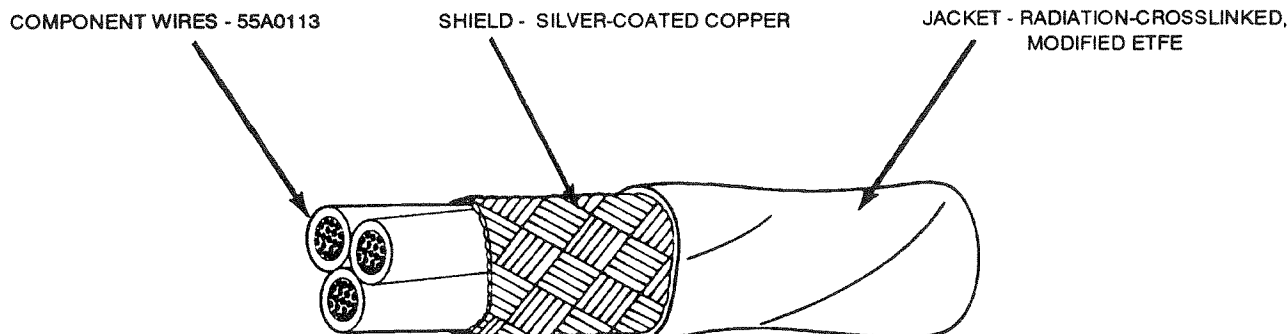
55A6875

TITLE THREE CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED
ETFE-INSULATED, SHIELDED, JACKETED, LIGHTWEIGHT, 600 VOLT

Date 6-19-91

Revision B

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	
55A6875-22-*	22	38	.005	.010	.126	.132	15.9
55A6875-20-*	20	38	.005	.010	.141	.148	21.5
55A6875-18-*	18	38	.005	.010	.163	.172	29.7
55A6875-16-*	16	38	.006	.011	.180	.189	36.4
55A6875-14-*	14	38	.007	.012	.219	.230	53.9
55A6875-12-*	12	38	.007	.012	.257	.270	77.2

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

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/in² (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: (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 a slash separating the component
wire colors and a dash separating the component wire
colors from the jacket color.

Example: AWG 20, white, blue and orange component
wire colors; white jacket: 55A6875-20-9/6/3-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSS3S23, 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.

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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