

SPECIFICATION CONTROL DRAWING

55A6874

TITLE

CABLE, TWO CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT

Date

1-30-91

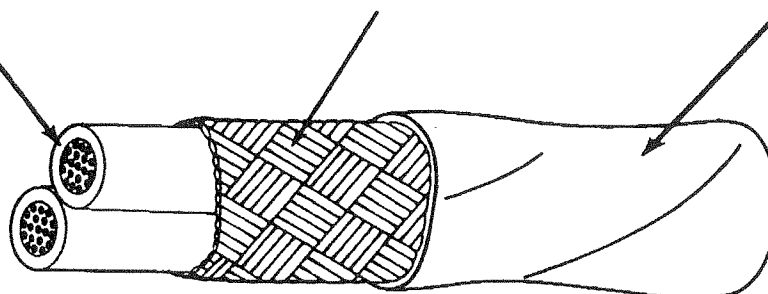
Revision

B

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

COMPONENT WIRES - 55A0113

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

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 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: -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: 55A6874-20-9/6-9

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

This construction meets all the requirements of M27500-AWGSS2S23, 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.

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