

SPECIFICATION CONTROL DRAWING

55A6842

TITLE TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT, 600 VOLT

Date 12-15-94

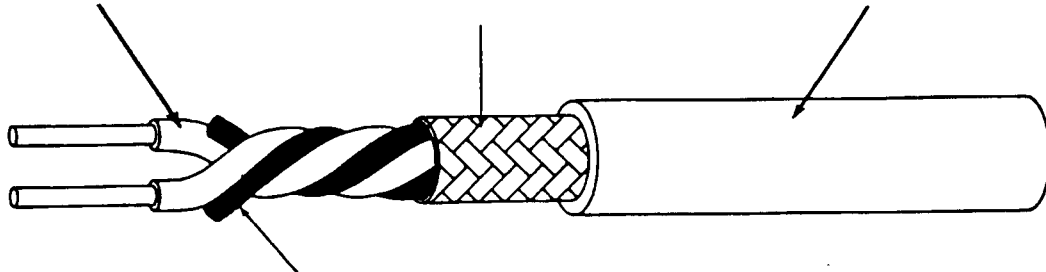
Revision E

This specification sheet forms a part of the latest issue of Raychem Specification 55A.

COMPONENT WIRES - 55A0113

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



FILLERS - RADIATION-CROSSLINKED, MODIFIED ETFE
(For AWG's 16-12)

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004 inch)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6842-22-*	22	.0015	.005	.010	.109	.114	9.8
55A6842-20-*	20	.0015	.005	.010	.122	.129	13.7
55A6842-18-*	18	.0015	.005	.010	.142	.150	19.3
55A6842-16-*	16	.0015	.005	.010	.158	.167	24.5
55A6842-14-*	14	.0015	.006	.011	.193	.203	36.1
55A6842-12-*	12	.0015	.007	.012	.231	.243	54.7

CABLE RATINGS AND 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

NOTE: Nominal values are for information only.

Nominal values are not requirements.

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 above 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 22, white and blue component wires,

white jacket: 55A6842-22-9/0-9

W & C DESIGN

RED STAMP - CONTROL COPY

BLACK STAMP - CHECK FOR

TESTING

This construction meets the requirements of M27500-AWGSS2G23, 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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