

SPECIFICATION CONTROL DRAWING

55A7147

TITLE

ONE CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED
ETFE-INSULATED, SHIELDED, JACKETED, 600 VOLT

Date

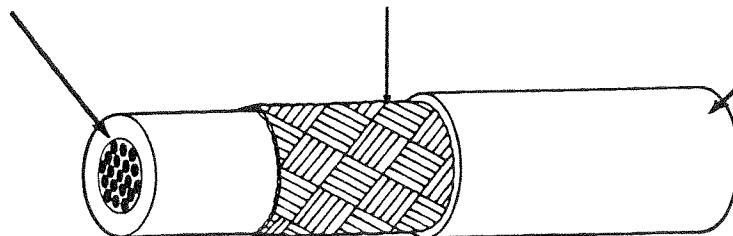
11-23-92

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-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	MAXIMUM	NOMINAL	MAXIMUM	
55A7147-28-*	28	38	.005	.010	.060	.065	3.9
55A7147-26-*	26	38	.005	.010	.065	.070	4.7
55A7147-24-*	24	38	.005	.010	.070	.075	5.7
55A7147-22-*	22	38	.005	.010	.076	.081	6.9
55A7147-20-*	20	38	.005	.010	.083	.088	8.9
55A7147-18-*	18	38	.005	.010	.093	.098	11.9
55A7147-16-*	16	38	.005	.010	.101	.106	14.3
55A7147-14-*	14	38	.005	.010	.118	.124	20.2
55A7147-12-*	12	38	.005	.010	.136	.143	28.2

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 lb/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 (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 dash separating the component wire
color from the jacket color.

Example: AWG 20, white component wire, white jacket:

55A7147-20-9-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSS1S23, 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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