

SPECIFICATION CONTROL DRAWING

55A2111

TITLE CABLE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,
ONE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT

Date 12-7-90

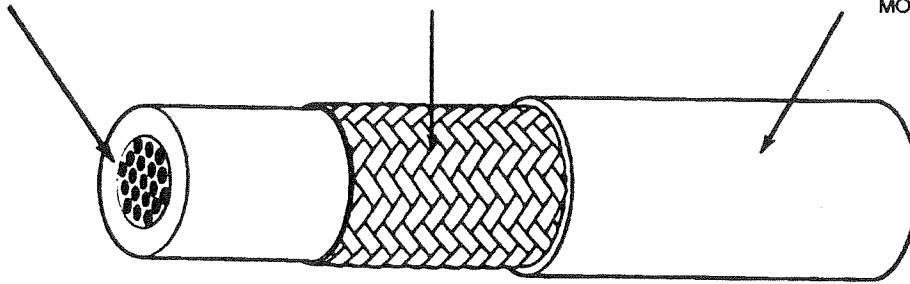
Revision B

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

COMPONENT WIRE - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004 in.)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A2111-30-*	30	.0015	.006	.008	.046	.052	2.2
55A2111-28*	28	.0015	.006	.008	.049	.055	2.6
55A2111-26*	26	.0015	.006	.008	.054	.060	3.3
55A2111-24-*	24	.0015	.006	.008	.059	.065	4.1
55A2111-22-*	22	.0015	.006	.008	.065	.071	5.3
55A2111-20-*	20	.0015	.006	.008	.073	.079	7.3
55A2111-18-*	18	.0015	.006	.008	.083	.088	9.8
55A2111-16-*	16	.0015	.006	.008	.091	.096	11.9
55A2111-14-*	14	.0015	.006	.008	.108	.113	17.4
55A2111-12-*	12	.0015	.006	.008	.126	.132	25.0

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

ACCELERATED AGING: 300 ± 3°C for 7 hours

BLOCKING: 200 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts, 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/in.² (minimum)

JACKET FLAWS:

Spark Test, 1000 volts, 60 Hz (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 300 ± 3°C for 6 hours

VOLTAGE WITHSTAND TEST: (After Accelerated Aging,

Immersion, Life Cycle, Low Temperature-Cold Bend and Thermal Shock) 1000 volts, 60 Hz, 1 minute

PART NUMBER:

The *** in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a dash separating the component wire color from the jacket color.

Example: AWG 20, white component wire; white jacket
55A2111-20-9-9.

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

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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