

SPECIFICATION CONTROL DRAWING

55A2111

TITLE

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

Date

12 -7 - 90

Revision

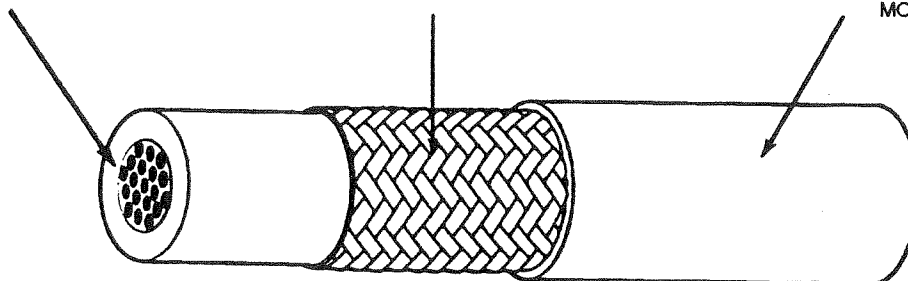
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This Specification sheet forms a part of the latest issue of Raychem Specifications 55A

COMPONENT WIRE - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS ($\pm .0004$ 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 $\pm$ 3°C for 7 hours

BLOCKING: 200 $\pm$ 3°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts, 60 Hz

FLAMMABILITY:

Procedure 1, 3 seconds (maximum); 3 in. (maximum);
no flaming or 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 $\pm$ 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 $\pm$ 3°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 300 $\pm$ 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.

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