

SPECIFICATION CONTROL DRAWING

55A1812

TITLE

ONE CONDUCTOR CABLE, SHIELDED, JACKETED, NORMAL WEIGHT

Date

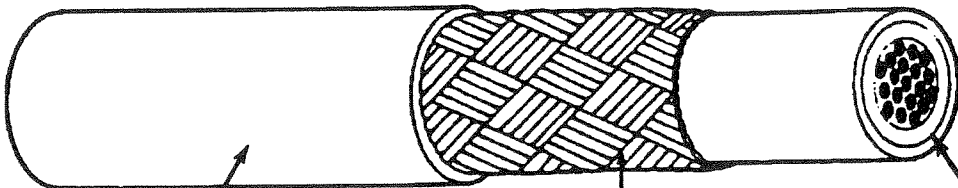
03-12-63

Revisions

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The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRE - 55A0812 SHIELD - SILVER-COATED COPPER JACKET - RADATION-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	NOMINAL	MAXIMUM	
55A1812-26*	26	38	.008	.073	.078	.078	5.6
55A1812-24*	24	38	.008	.068	.073	.068	6.5
55A1812-22*	22	38	.008	.063	.068	.063	7.8
55A1812-20*	20	38	.008	.058	.063	.058	9.9
55A1812-18*	18	38	.008	.053	.058	.053	13.3
55A1812-16*	16	38	.008	.048	.053	.048	15.6
55A1812-14*	14	38	.008	.043	.048	.043	21.7
55A1812-12*	12	38	.008	.038	.043	.038	29.6
55A1812-10*	10	38	.008	.033	.038	.033	43.2
55A1812-8*	8	38	.008	.028	.033	.028	77.8

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

LIFE CYCLE: 230 ± 3°C for 500 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 with a dash separating the component wire color from the jacket color.
 Example: AWG 20, white component wire; white jacket; 55A1812-20-9-9

TEMPERATURE RATING: 200°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 lb/ft² (minimum)
 JACKET FLAWS:
 Spark Test, 1000 volts, 60 Hz (rms), 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

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

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

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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