

SPECIFICATION CONTROL DRAWING

55A1812

TITLE
ONE CONDUCTOR CABLE, SHIELDED, JACKETED, NORMAL WEIGHT

Date
03-12-60

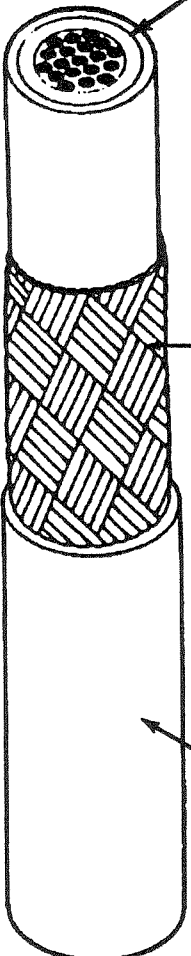
Revision
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The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRE - 55A0812

SHIELD - SILVER-COATED COPPER

**JACKET - RADIATION-CROSSLINKED,
MODIFIED ETHE**



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	MAXIMUM	
55A1812-28.*	28	38	.006	.008	.073	.078	5.6
55A1812-24.*	24	38	.006	.008	.078	.083	6.5
55A1812-22.*	22	38	.006	.008	.083	.088	7.8
55A1812-20.*	20	38	.006	.008	.081	.096	9.9
55A1812-18.*	18	38	.006	.008	.103	.108	13.3
55A1812-16.*	16	38	.006	.008	.110	.118	15.6
55A1812-14.*	14	38	.006	.008	.127	.133	21.7
55A1812-12.*	12	38	.006	.008	.144	.151	29.6
55A1812-10.*	10	38	.006	.008	.167	.175	43.2
55A1812-8.*	8	38	.007	.009	.230	.242	77.8

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

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

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

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.

Raychem

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