

SPECIFICATION CONTROL DRAWING

55A7035

TITLE

FOUR CONDUCTOR CABLE, SHIELDED, JACKETED

Date

2-28-91

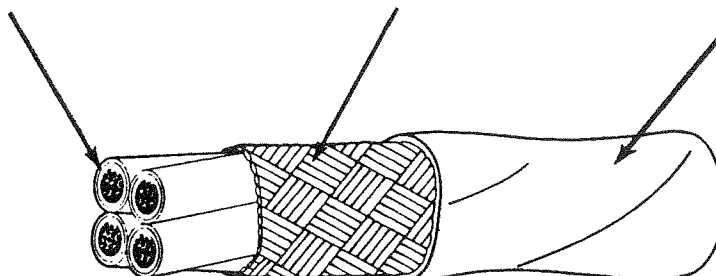
Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-C-27500 as applicable

CONDUCTOR - 55A0812-AWG

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 (in.)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A7035-12-*	12	36	.007	.009	.308	.361	108.

CABLE RATINGS AND 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: -65 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THREML SHOCK: 230 ± 5°C for 4 hours

VOLTAGE WITHSTAND TEST: (After Crosslinked
Verification, Immersion and Low Temperature-Cold
Bend) 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The *** in the part number above shall be replaced
by a color code designator with a slash separating
the component wire colors and a dash separating
the component wire colors from the jacket color.

Example: AWG 12, white, blue, orange and green
component wires; white jacket:
55A7035-12-9/6/3/5-9

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

This construction meets all the requirements of M27500-AWGSP4S23, 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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