SPECIFICATION CONTROL DRAWING

55A6315

TITLE: ONE CONDUCTOR CABLE, SHIELDED, JACKETED MEDIUM WEIGHT, 600 VOLT

DATE: 7-29-87

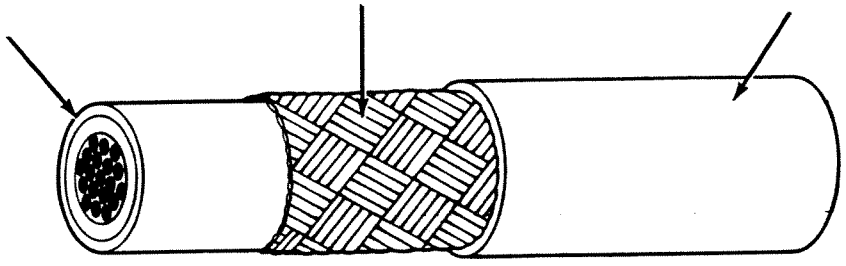
REVISION: A

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

COMPONENT WIRE - 55A0213

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		CABLE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A6315-22-*	22	38	.006	.008	.080	.085	7.5
55A6315-20-*	20	38	.006	.008	.088	.093	9.6
55A6315-18-*	18	38	.006	.008	.099	.104	12.8
55A6315-16-*	16	38	.006	.008	.106	.111	15.0
55A6315-14-*	14	38	.006	.008	.121	.127	21.1
55A6315-12-*	12	38	.006	.008	.139	.146	29.5

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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 ± 2°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: 55A6315-20-9-9.

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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