

# SPECIFICATION CONTROL DRAWING

55A6315

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

DATE: 7-29-87

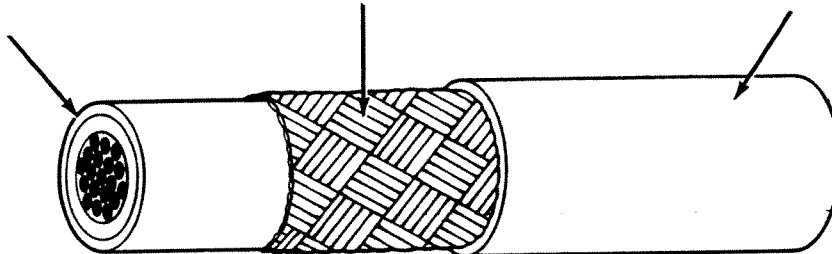
REVISION: A

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

### 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<sup>2</sup> (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.

## Raychem

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025-1165  
415) 361 3333 TWX 910 373 1728