

SPECIFICATION CONTROL DRAWING

55A6315

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

DATE: 7-29-87

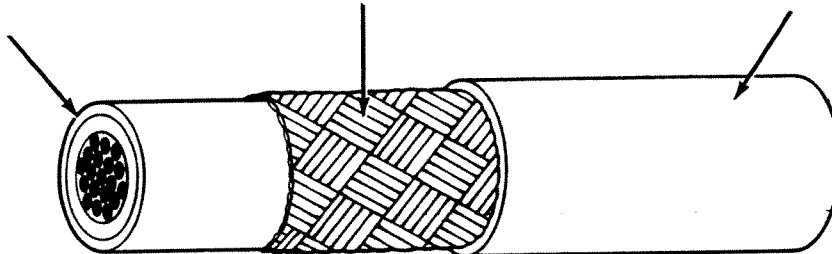
REVISION: A

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/in² (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