

# SPECIFICATION CONTROL DRAWING

55A1812

TITLE

ONE CONDUCTOR CABLE, SHIELDED, JACKETED, NORMAL WEIGHT

Date

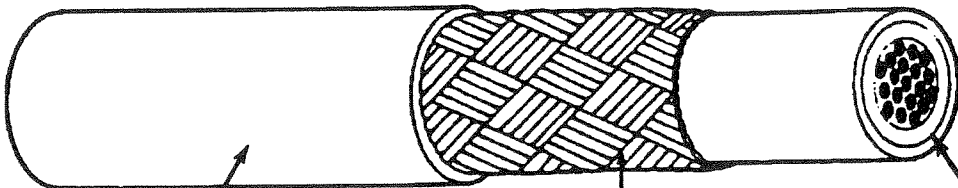
03-12-63

Revisions

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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 - RADATION-CROSSLINKED, MODIFIED ETFE



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 | NOMINAL                   | MAXIMUM |                              |
| 55A1812-26* | 26                   | 38                | .008                      | .073    | .078                      | .078    | 5.6                          |
| 55A1812-24* | 24                   | 38                | .008                      | .068    | .073                      | .068    | 6.5                          |
| 55A1812-22* | 22                   | 38                | .008                      | .063    | .068                      | .063    | 7.8                          |
| 55A1812-20* | 20                   | 38                | .008                      | .058    | .063                      | .058    | 9.9                          |
| 55A1812-18* | 18                   | 38                | .008                      | .053    | .058                      | .053    | 13.3                         |
| 55A1812-16* | 16                   | 38                | .008                      | .048    | .053                      | .048    | 15.6                         |
| 55A1812-14* | 14                   | 38                | .008                      | .043    | .048                      | .043    | 21.7                         |
| 55A1812-12* | 12                   | 38                | .008                      | .038    | .043                      | .038    | 29.6                         |
| 55A1812-10* | 10                   | 38                | .008                      | .033    | .038                      | .033    | 43.2                         |
| 55A1812-8*  | 8                    | 38                | .008                      | .028    | .033                      | .028    | 77.8                         |

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

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

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/ft<sup>2</sup> (minimum)  
 JACKET FLAWS:  
 Spark Test, 1000 volts, 60 Hz (rms), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

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.

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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