

## SPECIFICATION SHEET

55A1836

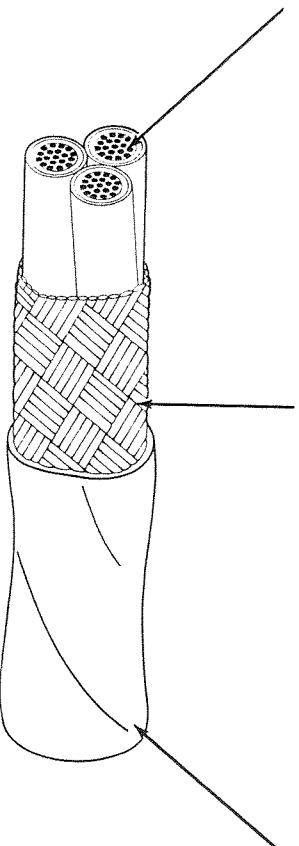
15 March 1983  
Revision ACABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,  
THREE CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

200°C

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRES - 55A0816

SHIELD - NICKEL-COATED COPPER

JACKET - RADIATION-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 1/ | NOMINAL 1/                | MAXIMUM |                             |
| 55A1836-26-*               | 26                   | 38                | .006                      | .008       | .119                      | .125    | 12.1                        |
| 55A1836-24-*               | 24                   | 38                | .006                      | .008       | .130                      | .137    | 14.7                        |
| 55A1836-22-*               | 22                   | 38                | .006                      | .008       | .143                      | .150    | 18.9                        |
| 55A1836-20-*               | 20                   | 38                | .006                      | .008       | .160                      | .168    | 25.0                        |
| 55A1836-18-*               | 18                   | 38                | .006                      | .008       | .184                      | .193    | 34.3                        |
| 55A1836-16-*               | 16                   | 38                | .006                      | .008       | .201                      | .212    | 41.5                        |

1/ Nominal values are for information only. Nominal values are not requirements.

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

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 psi (minimum)

JACKET FLAMS:

Spark Test, 1000 volts, 60 Hz (rms), 100% test

Impulse Dielectric test, 6.0 kV (peak), 100% test

## PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a slash separating component wire colors and a dash separating the component wire colors from the jacket color.

Example:

AWG 20, white, black and red component wires;

white jacket: 55A1836-20-9/0/2-9.

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