

# SPECIFICATION CONTROL DRAWING

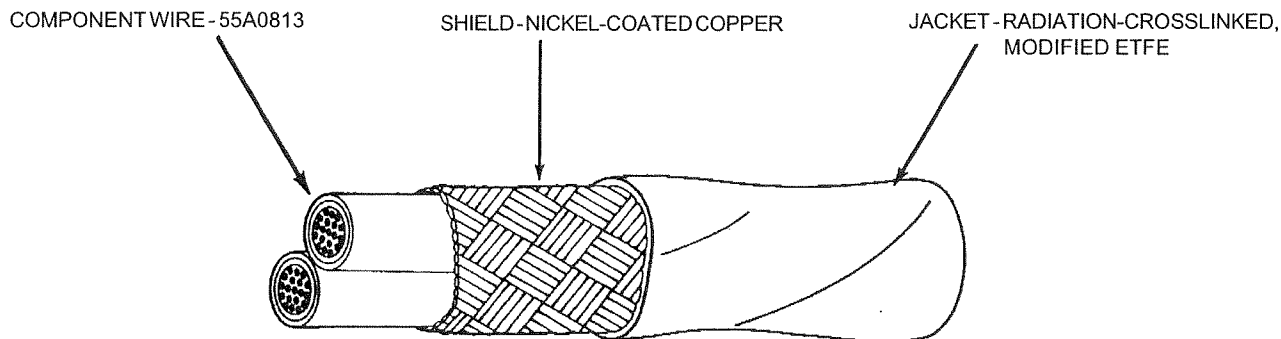
**55A1823**

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED,  
FLUOROPOLYMER-INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 06-07-00

Revision C

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



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                   | MAXIMUM |                              |
| 55A1823-28-* | 28                   | 38                | .006                      | .008    | .103                      | .108    | 8.1                          |
| 55A1823-26-* | 26                   | 38                | .006                      | .008    | .113                      | .119    | 9.6                          |
| 55A1823-24-* | 24                   | 38                | .006                      | .008    | .123                      | .129    | 11.4                         |
| 55A1823-22-* | 22                   | 38                | .006                      | .008    | .135                      | .142    | 14.5                         |
| 55A1823-20-* | 20                   | 38                | .006                      | .008    | .151                      | .159    | 18.7                         |
| 55A1823-18-* | 18                   | 38                | .006                      | .008    | .173                      | .182    | 25.3                         |
| 55A1823-16-* | 16                   | 38                | .006                      | .008    | .189                      | .198    | 30.4                         |
| 55A1823-14-* | 14                   | 38                | .007                      | .009    | .225                      | .236    | 43.4                         |
| 55A1823-12-* | 12                   | 38                | .007                      | .009    | .259                      | .272    | 60.6                         |
| 55A1823-10-* | 10                   | 38                | .007                      | .009    | .307                      | .322    | 88.2                         |
| 55A1823-8-*  | 8                    | 36                | .009                      | .011    | .433                      | .455    | 165.2                        |

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 (rms), 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 (rms), 100% test

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

**LIFE CYCLE: 230 ± 3°C for 500 hours**

**LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours**

**SHIELD COVERAGE: 85% (minimum)**

**VOLTAGE WITHSTAND TEST: (Post Environmental)**

1000 volts (rms), 60 Hz, " 1 minute "

**PART NUMBER:**

The "" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG.20, red and orange component wires; white jacket: 55A1823-20-2/3-9

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**

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