

## SPECIFICATION SHEET

55A1824

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED,  
TWO CONDUCTOR, SHIELDED, JACKETED, NORMAL WEIGHT

29 July 1986

Revision B

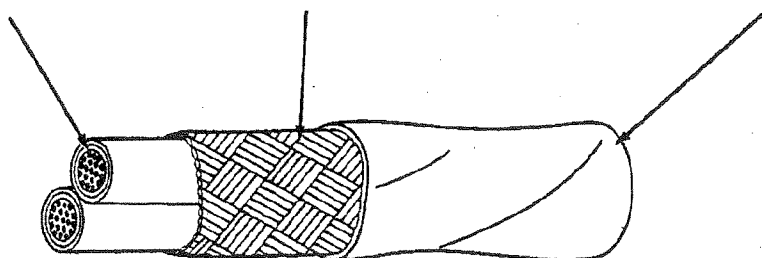
150°C

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 - 55A0814

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



| CABLE CONSTRUCTION DETAILS |                      |                   |                        |            |                        |         |                              |
|----------------------------|----------------------|-------------------|------------------------|------------|------------------------|---------|------------------------------|
| PART NUMBER                | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) |            | OUTSIDE DIAMETER (in.) |         | MAXIMUM WEIGHT (lb/1000 ft.) |
|                            |                      |                   | MINIMUM                | NOMINAL 1/ | NOMINAL 1/             | MAXIMUM |                              |
| 55A1824-30-*               | 30                   | 38                | .006                   | .008       | .097                   | .102    | 6.9                          |
| 55A1824-28-*               | 28                   | 38                | .006                   | .008       | .103                   | .109    | 7.9                          |
| 55A1824-26-*               | 26                   | 38                | .006                   | .008       | .113                   | .119    | 9.6                          |
| 55A1824-24-*               | 24                   | 38                | .006                   | .008       | .123                   | .129    | 11.0                         |
| 55A1824-22-*               | 22                   | 38                | .006                   | .008       | .135                   | .141    | 13.9                         |
| 55A1824-20-*               | 20                   | 38                | .006                   | .008       | .151                   | .158    | 18.2                         |

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

## 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 or 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 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 and black component wires;

white jacket: 55A1824-20-9/0-9.

**Raychem**

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.