

SPECIFICATION SHEET

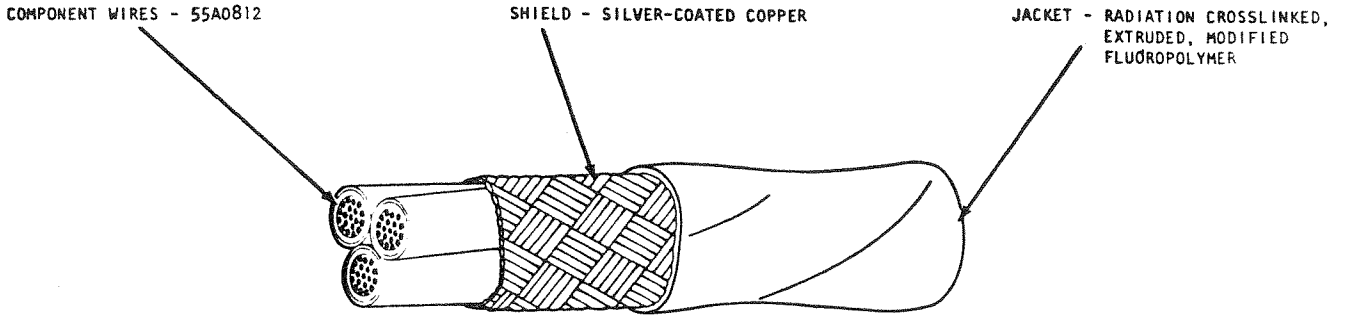
55A1832

27 April 1981

CABLE, 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.



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 | |
| 55A1832-26-* | 26 | 38 | .0060 | .0075 | .119 | .125 | 11.8 |
| 55A1832-24-* | 24 | 38 | .0060 | .0075 | .130 | .136 | 14.7 |
| 55A1832-22-* | 22 | 38 | .0060 | .0075 | .143 | .149 | 18.9 |
| 55A1832-20-* | 20 | 38 | .0060 | .0075 | .160 | .167 | 24.9 |
| 55A1832-18-* | 18 | 38 | .0060 | .0075 | .184 | .191 | 34.0 |
| 55A1832-16-* | 16 | 38 | .0060 | .0075 | .201 | .209 | 41.4 |
| 55A1832-14-* | 14 | 38 | .0070 | .0085 | .240 | .248 | 59.4 |
| 55A1832-12-* | 12 | 38 | .0070 | .0085 | .277 | .287 | 83.7 |

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 FLAWS:

Spark Test, 1000 volts, 60 Hz (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)

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, black, and red component wires; white jacket: 55A1832-20-9/0/2-9.