

SPECIFICATION SHEET

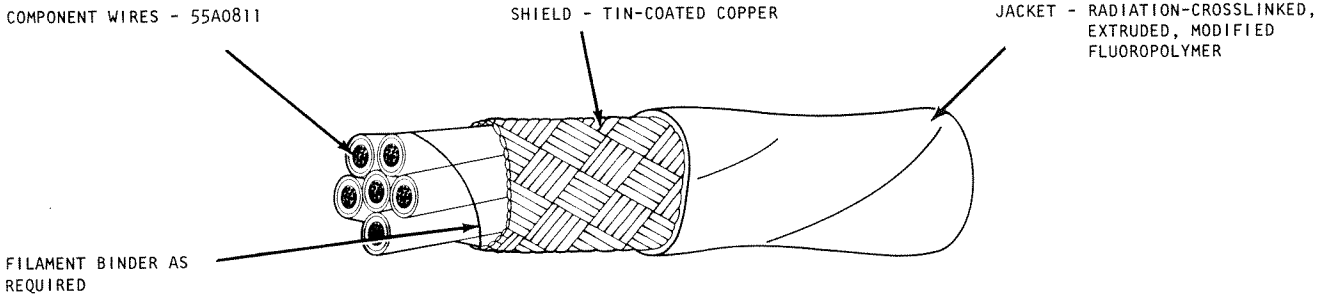
55A1861

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

25 September 1980

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.



| 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 | |
| 55A1861-26-* | 26 | 38 | .0060 | .0075 | .152 | .160 | 20.2 |
| 55A1861-24-* | 24 | 38 | .0060 | .0075 | .167 | .175 | 25.0 |
| 55A1861-22-* | 22 | 38 | .0060 | .0075 | .185 | .193 | 32.5 |
| 55A1861-20-* | 20 | 38 | .0060 | .0075 | .209 | .218 | 43.9 |
| 55A1861-18-* | 18 | 38 | .0070 | .0085 | .244 | .253 | 62.0 |
| 55A1861-16-* | 16 | 38 | .0070 | .0085 | .268 | .279 | 75.7 |
| 55A1861-14-* | 14 | 38 | .0080 | .0095 | .321 | .337 | 110. |
| 55A1861-12-* | 12 | 36 | .0080 | .0095 | .376 | .395 | 161. |
| 55A1861-10-* | 10 | 34 | .0090 | .0105 | .456 | .479 | 248. |
| 55A1861-8-* | 8 | 34 | .0110 | .0150 | .642 | .674 | 444. |
| 55A1861-6-* | 6 | 34 | .0120 | .0180 | .786 | .825 | 678. |
| 55A1861-4-* | 4 | 34 | .0140 | .0200 | .997 | 1.05 | 1055. |
| 55A1861-2-* | 2 | 34 | .0160 | .0250 | 1.30 | 1.37 | 1713. |

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 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: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 290 ± 3°C for 4 hours

VOLTAGE WITHSTAND TEST: (After Accelerated Aging,

Immersion, Life Cycle, and Low-Temperature-Cold Bend)

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 dash separating the component wire color from the jacket color.

Example: AWG 8, white, black, brown, red, green and blue component wires; white jacket:
55A1861-8-9/0/1/2/5/6-9

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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.