

SPECIFICATION CONTROL DRAWING

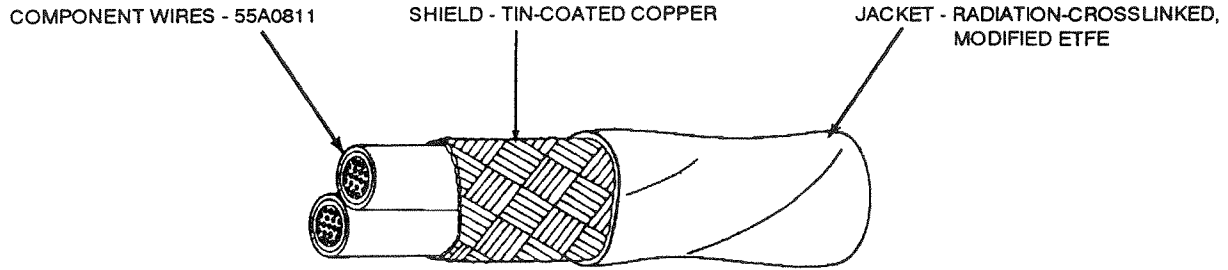
55A1821

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

Date 4-27-93

Revision E

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 (lbs/1000 ft.) |
|--------------|----------------------|-------------------|---------------------------|---------|---------------------------|---------|-------------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| 55A1821-26-* | 26 | 38 | .006 | .008 | .113 | .119 | 9.6 |
| 55A1821-24-* | 24 | 38 | .006 | .008 | .123 | .129 | 11.0 |
| 55A1821-22-* | 22 | 38 | .006 | .008 | .135 | .141 | 13.9 |
| 55A1821-20-* | 20 | 38 | .006 | .008 | .151 | .158 | 18.2 |
| 55A1821-18-* | 18 | 38 | .006 | .008 | .173 | .180 | 24.5 |
| 55A1821-16-* | 16 | 38 | .006 | .008 | .189 | .196 | 28.8 |
| 55A1821-14-* | 14 | 38 | .007 | .009 | .225 | .233 | 41.4 |
| 55A1821-12-* | 12 | 38 | .007 | .009 | .259 | .269 | 57.4 |
| 55A1821-10-* | 10 | 38 | .008 | .010 | .308 | .323 | 85.7 |
| 55A1821- 8-* | 8 | 36 | .009 | .011 | .432 | .454 | 163. |
| 55A1821- 6-* | 6 | 34 | .010 | .012 | .532 | .559 | 251. |
| 55A1821- 4-* | 4 | 34 | .011 | .015 | .677 | .711 | 385. |
| 55A1821- 2-* | 2 | 34 | .012 | .018 | .879 | .923 | 619. |

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 (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/in² (minimum)

JACKET FLAWS:

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

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

* LIFE CYCLE: 200 ± 3°C for 168 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: 55A1821-20-2/3-9

* Qualification Test

NOTE: Nominal values are for information only.

Nominal values are not requirements.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-661.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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