

SPECIFICATION CONTROL DRAWING

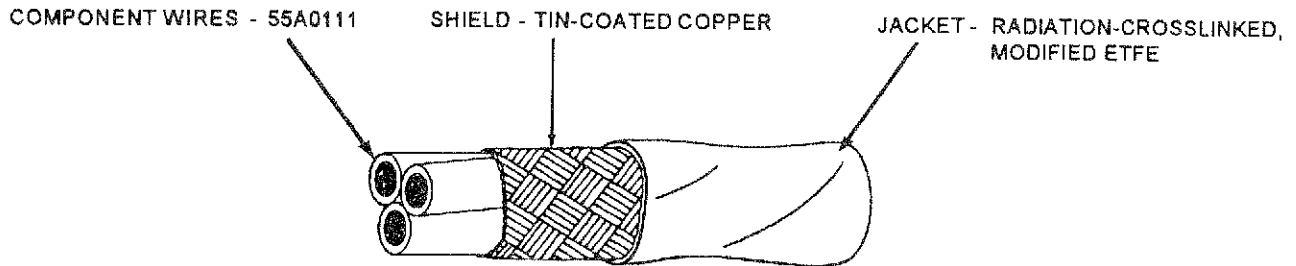
55A1131

TITLE
THREE CONDUCTOR CABLE, MODIFIED ETFE
INSULATED, SHIELDED, JACKETED, LIGHTWEIGHT, 600 VOLT

Date
25APR11

Revision
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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 (inch) | | OUTSIDE DIAMETER (inch) | | MAXIMUM WEIGHT (lbs/1000 ft.) |
|--------------|----------------------|-------------------|-------------------------|---------|-------------------------|---------|-------------------------------|
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | |
| 55A1131-30-* | 30 | 38 | .006 | .008 | .085 | .090 | 6.4 |
| 55A1131-28-* | 28 | 38 | .006 | .008 | .091 | .096 | 7.6 |
| 55A1131-26-* | 26 | 38 | .006 | .008 | .102 | .108 | 9.7 |
| 55A1131-24-* | 24 | 38 | .006 | .008 | .113 | .119 | 12.3 |
| 55A1131-22-* | 22 | 38 | .006 | .008 | .126 | .132 | 15.9 |
| 55A1131-20-* | 20 | 38 | .006 | .008 | .143 | .149 | 21.7 |
| 55A1131-18-* | 18 | 38 | .006 | .008 | .165 | .172 | 30.4 |
| 55A1131-16-* | 16 | 38 | .006 | .008 | .182 | .189 | 37.4 |
| 55A1131-14-* | 14 | 38 | .007 | .009 | .221 | .229 | 54.0 |
| 55A1131-12-* | 12 | 38 | .007 | .009 | .260 | .270 | 77.5 |
| 55A1131-10-* | 10 | 38 | .007 | .009 | .311 | .327 | 118. |

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 ± 2°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 a color code designator with a slash separating the 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: 55A1131-20-9/0/2-9

**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.