

# SPECIFICATION CONTROL DRAWING

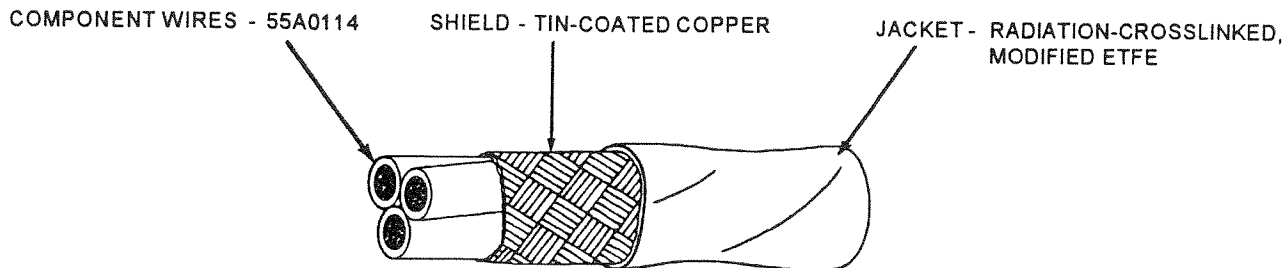
55A1134

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

Date 11-18-98

Revision

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 |                               |
| 55A1134-30-* | 30                   | 38                | .006                    | .008    | .085                    | .090    | 6.4                           |
| 55A1134-28-* | 28                   | 38                | .006                    | .008    | .091                    | .096    | 7.6                           |
| 55A1134-26-* | 26                   | 38                | .006                    | .008    | .102                    | .108    | 9.7                           |
| 55A1134-24-* | 24                   | 38                | .006                    | .008    | .113                    | .119    | 12.3                          |
| 55A1134-22-* | 22                   | 38                | .006                    | .008    | .126                    | .132    | 15.9                          |
| 55A1134-20-* | 20                   | 38                | .006                    | .008    | .143                    | .149    | 21.7                          |
| 55A1134-18-* | 18                   | 38                | .006                    | .008    | .165                    | .172    | 30.4                          |
| 55A1134-16-* | 16                   | 38                | .006                    | .008    | .182                    | .189    | 37.4                          |

### 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/in<sup>2</sup> (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: 55A1134-20-9/0/2-9

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.

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