

SPECIFICATION CONTROL DRAWING

55FB1441

TITLE

FOUR CONDUCTOR CABLE, FILTER LINE, ELECTROLOSS™, 600 VOLT

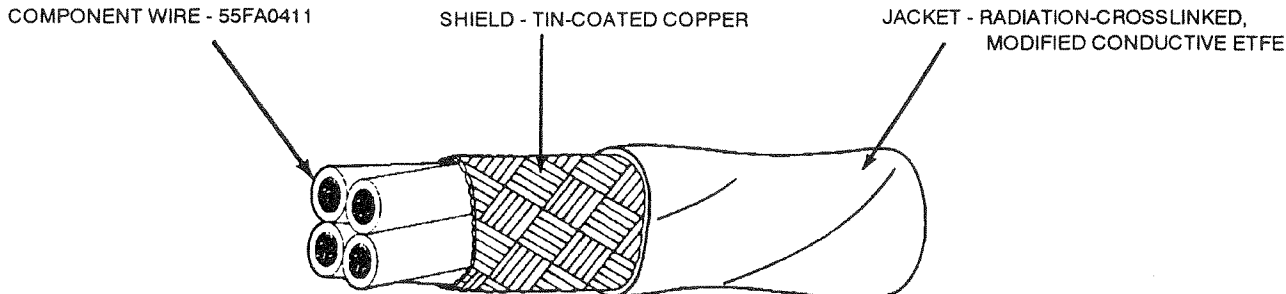
Date

6-25-92

Revision

F

This specification sheet forms a part of the latest issue of Raychem Specification 55F.



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 | |
| 55FB1441-22-* | 22 | 38 | .006 | .008 | .183 | .214 | 32.3 |
| 55FB1441-20-* | 20 | 38 | .006 | .008 | .202 | .237 | 41.4 |
| 55FB1441-18-* | 18 | 38 | .006 | .008 | .227 | .266 | 54.2 |
| 55FB1441-16-* | 16 | 38 | .007 | .009 | .243 | .285 | 64.0 |
| 55FB1441-14-* | 14 | 38 | .007 | .009 | .277 | .326 | 86.5 |
| 55FB1441-12-* | 12 | 38 | .008 | .010 | .344 | .406 | 131. |
| 55FB1441-10-* | 10 | 36 | .008 | .010 | .406 | .479 | 193. |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

ACCELERATED AGING (CROSSLINKING PROOF TEST):

300 ± 3°C for 7 hours

* BLOCKING: 200 ± 3°C for 6 hours

FLAMMABILITY: 3 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

* IMMERSION: 5% (maximum) diameter increase,

no cracking of jacket

JACKET COLOR: Black

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 3500 lbf/in² (minimum)

JACKET FLAWS: Not Applicable

* 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 (DIELECTRIC): Conductor

to conductor and shield, 1500 volts (rms), 60 Hz

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

Not Applicable

PART NUMBER:

The *** in the part numbers above shall be replaced by color code designators except that violet shall be light violet and the designator shall be 7L; with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 20, light violet component wires;
black jacket: 55FB1441-20-7L/7L/7L/7L-0

NOTE: Nominal values are for information only.

Nominal values are not requirements.

* Qualification Test

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

Raychem

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