

# SPECIFICATION CONTROL DRAWING

55FB1431

TITLE

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

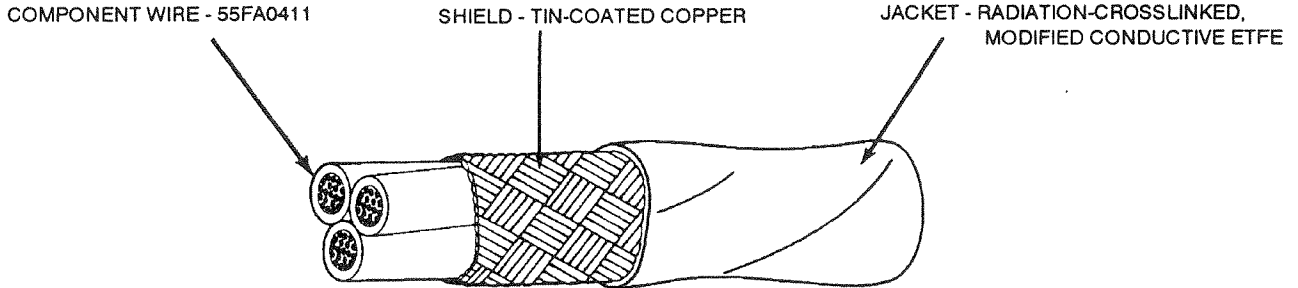
Date

6-25-92

Revision

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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	
55FB1431-22-*	22	38	.006	.008	.167	.175	25.7
55FB1431-20-*	20	38	.006	.008	.184	.193	32.7
55FB1431-18-*	18	38	.006	.008	.206	.216	42.5
55FB1431-16-*	16	38	.006	.008	.219	.230	49.5
55FB1431-14-*	14	38	.007	.009	.251	.264	67.2
55FB1431-12-*	12	38	.007	.009	.309	.325	100.
55FB1431-10-*	10	38	.008	.010	.363	.381	145.

## 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/in<sup>2</sup> (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: 55FB1421-20-7L/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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