

# SPECIFICATION CONTROL DRAWING

55FB1421

TITLE

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

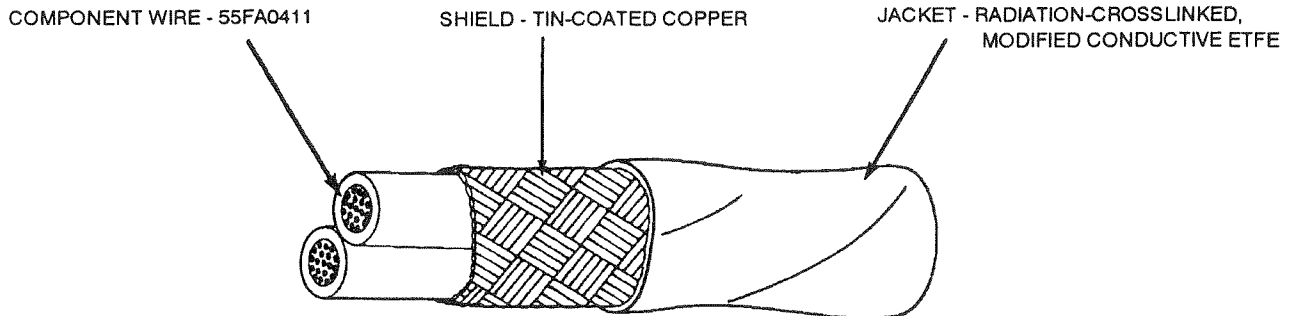
Date

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	
55FB1421-22-*	22	38	.006	.008	.157	.165	19.3
55FB1421-20-*	20	38	.006	.008	.173	.182	24.2
55FB1421-18-*	18	38	.006	.008	.193	.203	31.0
55FB1421-16-*	16	38	.006	.008	.205	.215	35.9
55FB1421-14-*	14	38	.007	.009	.235	.247	47.6
55FB1421-12-*	12	38	.007	.009	.289	.303	71.3
55FB1421-10-*	10	38	.008	.010	.339	.356	102.

### 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 lb/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-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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