

# SPECIFICATION CONTROL DRAWING

**55FB1411**

TITLE

ONE CONDUCTOR CABLE, FILTER LINE, ELECTROLOSS™

Date

6-25-92

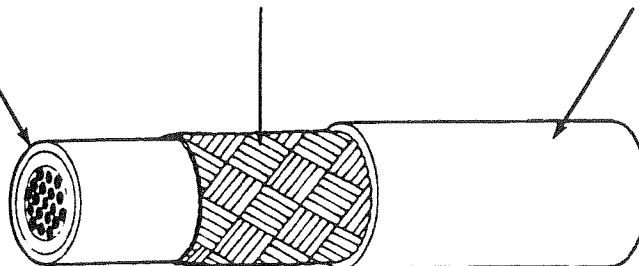
Revision

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

COMPONENT WIRE - 55FA0411

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED CONDUCTIVE ETFE

## 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	
55FB1411-22-*	22	38	.006	.008	.095	.100	10.6
55FB1411-20-*	20	38	.006	.008	.103	.108	13.1
55FB1411-18-*	18	38	.006	.008	.113	.119	16.5
55FB1411-16-*	16	38	.006	.008	.119	.125	19.0
55FB1411-14-*	14	38	.006	.008	.133	.140	24.9
55FB1411-12-*	12	38	.006	.008	.160	.168	36.4
55FB1411-10-*	10	38	.006	.008	.184	.193	51.1
55FB1411- 8-*	8	38	.007	.009	.273	.287	97.0

## 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 CONCENTRICITY: 70% (minimum)

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 shield, 1500 volts (rms), 60 HzVOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
Not Applicable

### PART NUMBER:

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

Example: AWG 20, light violet component wire;  
black jacket: 55FB1411-20-7L-0

\* Qualification Test

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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