

SPECIFICATION CONTROL DRAWING

55FB1421

TITLE

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

Date

6-25-92

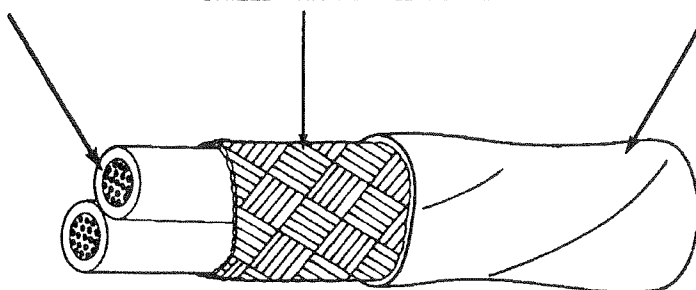
Revision

F

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

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	
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 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: 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

Raychem Corporation
300 Constitution Drive, Menlo Park, California 94025
415) 361 3333 TWX 910 373 1728