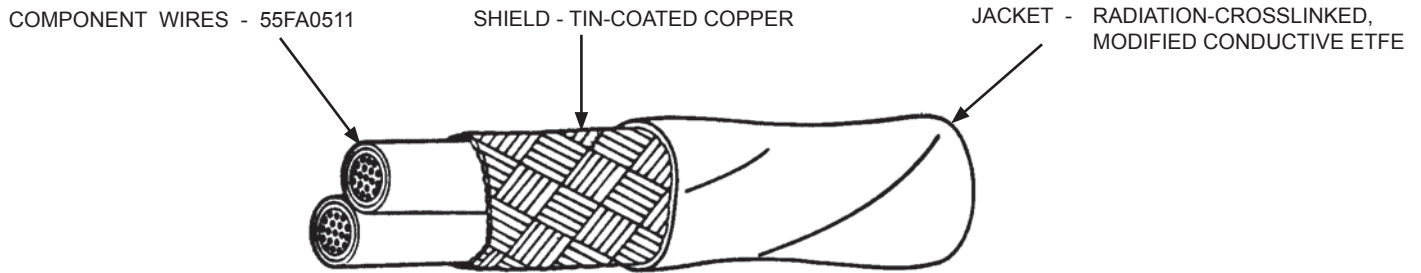


# SPECIFICATION CONTROL DRAWING

**55FB1521**

TITLE TWO CONDUCTOR CABLE, SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS	Date 8-11-10	Revision F
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This specification sheet forms a part of the latest issue of Raychem Specification 55F.



CABLE CONSTRUCTION DETAILS								JACKET FLEXURE ENDURANCE MANDREL DIAMETER (in.) (± 3%)
PART NUMBER <u>1/</u>	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)	
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM		
55FB1521-22-*	22	38	.0060	.008	.134	.145	16.0	.250
55FB1521-20-*	20	38	.0060	.008	.150	.161	20.5	.250
55FB1521-18-*	18	38	.0060	.008	.172	.183	27.8	.250
55FB1521-16-*	16	38	.0060	.008	.188	.201	34.0	.325
55FB1521-14-*	14	38	.0070	.009	.224	.237	46.7	.325
55FB1521-12-*	12	38	.0070	.009	.259	.272	65.2	.500
55FB1521-10-*	10	38	.0070	.009	.307	.322	94.9	.500

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING:** 150°C  
 Maximum continuous conductor temperature  
**VOLTAGE RATING:** 600 volts (rms) at sea level  
**BLOCKING:** 200 ± 3°C for 6 hours  
**CROSSLINKING PROOF TEST:** 300 ± 3°C for 7 hours  
**FLAMMABILITY:** 3 seconds (maximum); 3 in. (maximum);  
 no flaming of facial tissue  
**FLUORIDE EXTRACTION:**  
 70 ± 2° C for 168 hours, 250 ppm (maximum)  
**IDENTIFICATION AND COLOR STRIPING DURABILITY:**  
 125 cycles (250 strokes) (minimum), 500 g weight  
**JACKET COLOR:** Black  
**JACKET ELONGATION AND TENSILE STRENGTH:**  
 Elongation, 50% (minimum)  
 Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum)

**JACKET FLAWS:** Not Applicable  
**JACKET FLEXURE ENDURANCE:** 10 cycles, no cracking  
**LIFE CYCLE:** 200 ± 3°C for 168 hours  
**LOW TEMPERATURE-COLD BEND:** -65 ± 2°C for 4 hours  
**SHIELD COVERAGE:** 85% (minimum)  
**VOLTAGE WITHSTAND (DIELECTRIC):**  
 Conductor to conductor and shield, 1500 volts (rms), 60 Hz  
**VOLTAGE WITHSTAND (Post Environmental):** Not Applicable

**PART NUMBER:**  
 The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color. Violet shall be light violet and the designator shall be 7L.  
 Example: AWG 22, light violet and light violet with a blue stripe component wires, black jacket: 55FB1521-22-7L/7L6-0

**NOTE:** Nominal values are for information only.  
 Nominal values are not requirements.

This product meets or exceeds all requirements of SAE AS85485/12 for 22-14 AWG, less identification.  
 Internal wire sizes 22-10 AWG meet or exceed all requirements of SAE AS85485/9, less identification.  
 All other AWG sizes meet or exceed all requirements of SAE AS85485, less identification.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.				
1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx"). OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.				
Page 1 of 1	The TE logo, Tyco Electronics, Electroloss and Raychem are trademarks.			Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297
	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL			
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.			

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