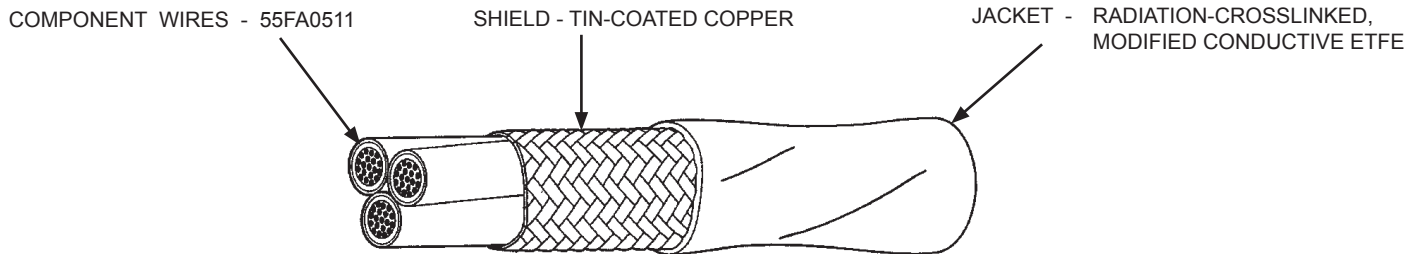


# SPECIFICATION CONTROL DRAWING

**55FB2531**

<b>TITLE</b> THREE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS	<b>Date</b> 7-30-10	<b>Revision</b> E
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 1/	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004 in.)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)	
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM		
55FB2531-22-*	22	.0015	.006	.008	.133	.140	17.7	.325
55FB2531-20-*	20	.0015	.006	.008	.150	.158	24.0	.325
55FB2531-18-*	18	.0015	.006	.008	.174	.183	33.9	.500
55FB2531-16-*	16	.0015	.006	.008	.191	.201	42.3	.500
55FB2531-14-*	14	.0015	.007	.009	.230	.242	59.7	.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. Colors shown do not necessarily reflect the sequence of manufacturing.

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

**Example:** AWG 22, light violet, light violet with an orange stripe and light violet with a blue stripe component wires, black jacket: 55FB2531-22-7L/7L3/7L6-0

This product meets or exceeds all requirements of SAE AS85485, less identification.  
 Internal wire sizes 22-14 AWG meet or exceed all requirements of SAE AS85485/9, 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.		
	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.		
		Raychem Wire & Cable 501 Oakeside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	

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