

SPECIFICATION CONTROL DRAWING

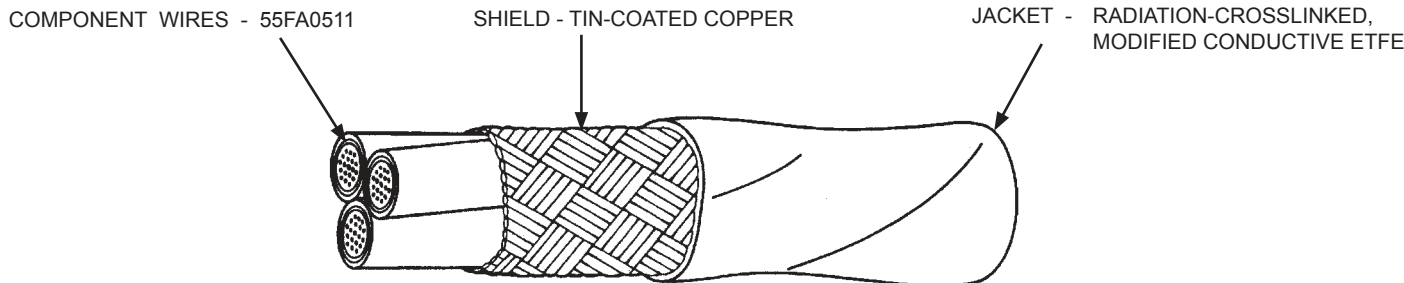
55FB1531

TITLE THREE CONDUCTOR CABLE, SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS

Date 8-13-10

Revision F

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 SIZE (AWG) | JACKET THICKNESS (in.) | | OUTSIDE DIAMETER (in.) | | MAXIMUM WEIGHT (lbs/1000 ft.) | |
| | | | MINIMUM | NOMINAL | NOMINAL | MAXIMUM | | |
| 55FB1531-22-* | 22 | 38 | .0060 | .008 | .142 | .154 | 20.9 | .250 |
| 55FB1531-20-* | 20 | 38 | .0060 | .008 | .159 | .171 | 27.6 | .250 |
| 55FB1531-18-* | 18 | 38 | .0060 | .008 | .183 | .195 | 38.0 | .325 |
| 55FB1531-16-* | 16 | 38 | .0060 | .008 | .201 | .214 | 47.0 | .325 |
| 55FB1531-14-* | 14 | 38 | .0070 | .009 | .239 | .253 | 65.1 | .325 |
| 55FB1531-12-* | 12 | 38 | .0070 | .009 | .277 | .291 | 91.9 | .500 |
| 55FB1531-10-* | 10 | 38 | .0080 | .010 | .331 | .347 | 136. | .750 |

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/in² (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.

Example: AWG 22, light violet, light violet with an orange stripe and light violet with a blue stripe component wires, black jacket:
 55FB1531-22-7L/7L3/7L6-0

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. | | |