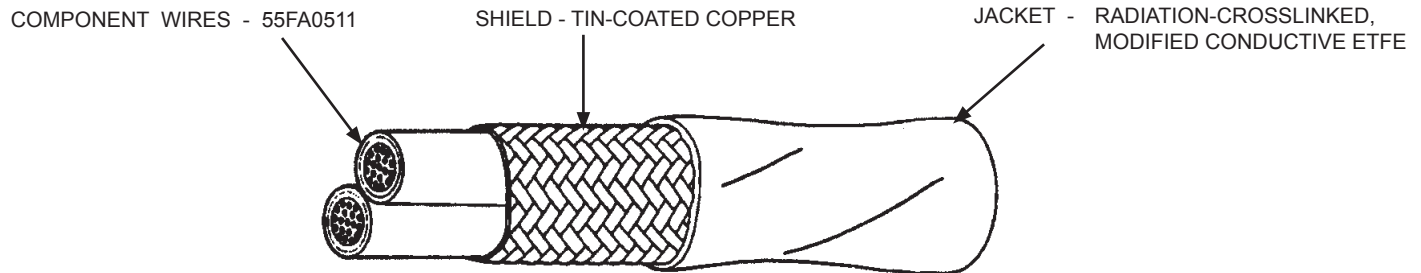


| SPECIFICATION CONTROL DRAWING                                                           |                                                                               | 55FB2521        |               |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------|---------------|
| TITLE                                                                                   | TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS | Date<br>7-30-10 | Revision<br>E |
| This specification sheet forms a part of the latest issue of Raychem Specification 55F. |                                                                               |                 |               |



| CABLE CONSTRUCTION DETAILS |                            |                                                |                           |         |                           |         |                                     | JACKET<br>FLEXURE<br>ENDURANCE<br>MANDREL<br>DIAMETER<br>(in.) (± 3%) |
|----------------------------|----------------------------|------------------------------------------------|---------------------------|---------|---------------------------|---------|-------------------------------------|-----------------------------------------------------------------------|
| PART NUMBER<br><u>1/</u>   | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>STRAND<br>THICKNESS<br>(± .0004 in.) | JACKET THICKNESS<br>(in.) |         | OUTSIDE DIAMETER<br>(in.) |         | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |                                                                       |
|                            |                            |                                                | MINIMUM                   | NOMINAL | NOMINAL                   | MAXIMUM |                                     |                                                                       |
| 55FB2521-22-*              | 22                         | .0015                                          | .006                      | .008    | .125                      | .131    | 13.0                                | .325                                                                  |
| 55FB2521-20-*              | 20                         | .0015                                          | .006                      | .008    | .141                      | .148    | 17.4                                | .325                                                                  |
| 55FB2521-18-*              | 18                         | .0015                                          | .006                      | .008    | .163                      | .171    | 24.2                                | .500                                                                  |
| 55FB2521-16-*              | 16                         | .0015                                          | .006                      | .008    | .179                      | .188    | 30.0                                | .500                                                                  |
| 55FB2521-14-*              | 14                         | .0015                                          | .006                      | .008    | .213                      | .224    | 41.5                                | .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: 55FB2521-22-7L/7L6-0

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This product meets or exceeds all requirements of SAE AS85485, 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.<br>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.                                                                                             |  | <br>Raychem Wire & Cable<br>501 Oakside Avenue<br>Redwood City, CA 94063-3800<br>Phone: 1-800-227-8816<br>Fax: 1-650-361-6297 |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL                                                                                              |  |                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.<br>REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID. |  |                                                                                                                                                                                                                    |