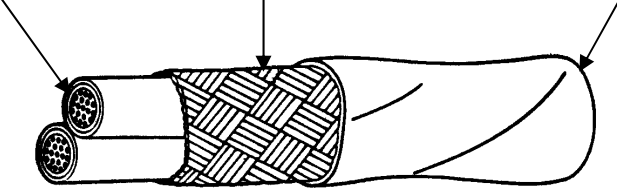


| <b>SPECIFICATION CONTROL DRAWING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      | SCD                                                                                                                                                                                                                                                                                                                                |                                     | <b>55FB1524</b>                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------|--|
| Title<br>TWO CONDUCTOR CABLE, SHIELDED, JACKETED, FILTER LINE - ELECTROLOSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      | Date<br>9-26-16                                                                                                                                                                                                                                                                                                                    |                                     | Revision<br>E                                                         |  |
| This specification sheet forms a part of the latest issue of Raychem Specification 55F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-bottom: 10px;"> <div style="text-align: center;">COMPONENT WIRES - 55FA0514</div> <div style="text-align: center;">SHIELD - TIN-COATED COPPER</div> <div style="text-align: center;">JACKET - RADIATION-CROSSLINKED,<br/>MODIFIED CONDUCTIVE ETFE</div> </div>                                                                                                                                                                                                                                                                           |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| 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>SIZE<br>(AWG) | JACKET THICKNESS<br>(inch) |         | OUTSIDE DIAMETER<br>(inch)                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                    | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |                                                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                 |                         | MINIMUM                    | NOMINAL | NOMINAL                                                                                                                                                                                                                                                                                                                                                              | MAXIMUM                                                                                                                                                                                                                                                                                                                            |                                     |                                                                       |  |
| 55FB1524-26-*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26                                                                                                                                                              | 38                      | .0060                      | .008    | .119                                                                                                                                                                                                                                                                                                                                                                 | .125                                                                                                                                                                                                                                                                                                                               | 11.2                                | .250                                                                  |  |
| 55FB1524-24-*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24                                                                                                                                                              | 38                      | .0060                      | .008    | .122                                                                                                                                                                                                                                                                                                                                                                 | .131                                                                                                                                                                                                                                                                                                                               | 13.0                                | .250                                                                  |  |
| 55FB1524-22-*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22                                                                                                                                                              | 38                      | .0060                      | .008    | .134                                                                                                                                                                                                                                                                                                                                                                 | .145                                                                                                                                                                                                                                                                                                                               | 16.0                                | .250                                                                  |  |
| 55FB1524-20-*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20                                                                                                                                                              | 38                      | .0060                      | .008    | .150                                                                                                                                                                                                                                                                                                                                                                 | .161                                                                                                                                                                                                                                                                                                                               | 20.5                                | .250                                                                  |  |
| CABLE RATINGS AND ADDITIONAL REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p>TEMPERATURE RATING: 150°C<br/>Maximum continuous conductor temperature</p> <p>VOLTAGE RATING: 600 volts (rms) at sea level</p> <p>BLOCKING: 200 ± 3°C for 6 hours</p> <p>CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours</p> <p>FLAMMABILITY: 3 seconds (maximum); 3 inches (maximum);<br/>no flaming of facial tissue</p> <p>FLUORIDE EXTRACTION:<br/>70 ± 2°C for 168 hours, 250 ppm (maximum)</p> <p>IDENTIFICATION AND COLOR STRIPING DURABILITY:<br/>125 cycles (250 strokes) (minimum), 500 g weight</p> <p>JACKET COLOR: Black</p> <p>JACKET ELONGATION AND TENSILE STRENGTH:<br/>Elongation, 50% (minimum)<br/>Tensile Strength, 3500 lbf/in<sup>2</sup> (minimum)</p> <p>JACKET FLAWS: Not applicable</p> |                                                                                                                                                                 |                         |                            |         | <p>JACKET FLEXURE ENDURANCE: 10 cycles, no cracking</p> <p>LIFE CYCLE: 200 ± 3°C for 168 hours</p> <p>LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours</p> <p>SHIELD COVERAGE: 85% (minimum)</p> <p>VOLTAGE WITHSTAND (Dielectric):<br/>Conductor to conductor and shield, 1500 volts (rms), 60 Hz</p> <p>VOLTAGE WITHSTAND (Post Environmental): Not applicable</p> |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p><u>1/</u> PART NUMBER:<br/>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.<br/>Example: AWG 24, light violet and light violet with a blue stripe component wires; black jacket:<br/>55FB1524-24-7L/7L6-0</p>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p>This product meets or exceeds all requirements of SAE AS85485/12 for 24 AWG, less identification.<br/>Internal wire size 24 AWG meets or exceeds all requirements of SAE AS85485/10, less identification.<br/>All other AWG sizes meet or exceed all requirements of SAE AS85485, less identification.</p>                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p>NOTE: Nominal values are for information only. Nominal values are not requirements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p>Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.<br/>Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.</p>                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| <p><u>1/</u> 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.</p>                                                                                                                                                                                                                                                                                |                                                                                                                                                                 |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |
| Page 1 of 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Electroloss, Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks.                                                                    |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |  <div style="display: flex; flex-direction: column; align-items: center;"> <p><b>Raychem Wire &amp; Cable</b></p> <p>501 Oakside Avenue</p> <p>Redwood City, CA 94063-3800</p> <p>Phone: 1-800-522-6752</p> <p>Fax: 1-650-361-6297</p> </div> |                                     |                                                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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. |                         |                            |         |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                     |                                                                       |  |