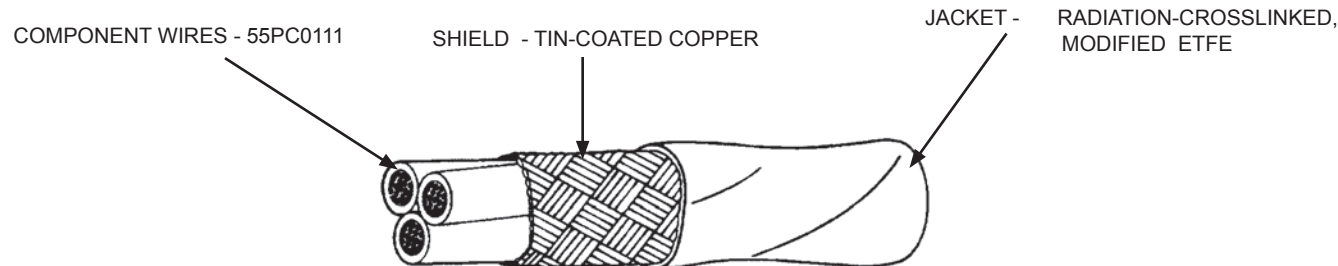


| SPECIFICATION CONTROL DRAWING                                                            |  |  |  |  |  |  |  | 55PC1131        |               |
|------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|-----------------|---------------|
| TITLE<br>THREE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT            |  |  |  |  |  |  |  | Date<br>3-16-10 | Revision<br>D |
| This specification sheet forms a part of the latest issue of Raychem Specification 55PC. |  |  |  |  |  |  |  |                 |               |



| CONSTRUCTION DETAILS     |                            |                         |                             |                |                             |                 |                        |                            |                        |
|--------------------------|----------------------------|-------------------------|-----------------------------|----------------|-----------------------------|-----------------|------------------------|----------------------------|------------------------|
| PART NUMBER<br><u>1/</u> | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>( in. ) |                | OUTSIDE DIAMETER<br>( in. ) |                 |                        | WEIGHT<br>( lbs/1000 ft. ) |                        |
|                          |                            |                         | LOWER<br>SPEC<br>LIMIT      | TARGET<br>WALL | LOWER<br>SPEC<br>LIMIT      | TARGET<br>VALUE | UPPER<br>SPEC<br>LIMIT | TARGET<br>VALUE            | UPPER<br>SPEC<br>LIMIT |
| 55PC1131-28-*            | 28                         | 38                      | .0050                       | .0065          | .081                        | .087            | .092                   | 6.69                       | 7.23                   |
| 55PC1131-26-*            | 26                         | 38                      | .0055                       | .0070          | .094                        | .098            | .102                   | 8.87                       | 9.32                   |
| 55PC1131-24-*            | 24                         | 38                      | .0055                       | .0070          | .104                        | .108            | .113                   | 11.23                      | 11.67                  |
| 55PC1131-22-*            | 22                         | 38                      | .0060                       | .0075          | .118                        | .122            | .127                   | 14.85                      | 15.39                  |
| 55PC1131-20-*            | 20                         | 38                      | .0060                       | .0075          | .135                        | .139            | .144                   | 20.30                      | 20.91                  |
| 55PC1131-18-*            | 18                         | 38                      | .0060                       | .0075          | .155                        | .160            | .165                   | 28.14                      | 28.94                  |
| 55PC1131-16-*            | 16                         | 38                      | .0060                       | .0080          | .172                        | .177            | .182                   | 34.67                      | 35.57                  |
| 55PC1131-14-*            | 14                         | 38                      | .0060                       | .0080          | .203                        | .208            | .214                   | 50.00                      | 51.12                  |
| 55PC1131-12-*            | 12                         | 38                      | .0060                       | .0080          | .244                        | .249            | .255                   | 73.31                      | 74.78                  |
| 55PC1131-10-*            | 10                         | 36                      | .0065                       | .0085          | .295                        | .310            | .325                   | 116.67                     | 120.59                 |
| 55PC1131-8-*             | 8                          | 34                      | .0070                       | .0090          | .426                        | .449            | .472                   | 218.12                     | 225.11                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                    |  |                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                |                                                                                                                                                                    |  |                                                                                                                                                                                                                    |
| <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. |                                                                                                                                                                    |  |                                                                                                                                                                                                                    |
| Page 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                    | The TE logo, Tyco Electronics 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. |  |                                                                                                                                                                                                                    |

|                                                                                   |                                        |             |               |                            |
|-----------------------------------------------------------------------------------|----------------------------------------|-------------|---------------|----------------------------|
|  | <h1>SPECIFICATION CONTROL DRAWING</h1> | Page 2 of 2 | Revision<br>D | SCD<br><br><b>55PC1131</b> |
|-----------------------------------------------------------------------------------|----------------------------------------|-------------|---------------|----------------------------|

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1000 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "\*" in the part numbers on page 1 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. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 22, black, brown and red component wires; white jacket:

55PC1131-22-0/1/2-9

1/ See footer section on page 1