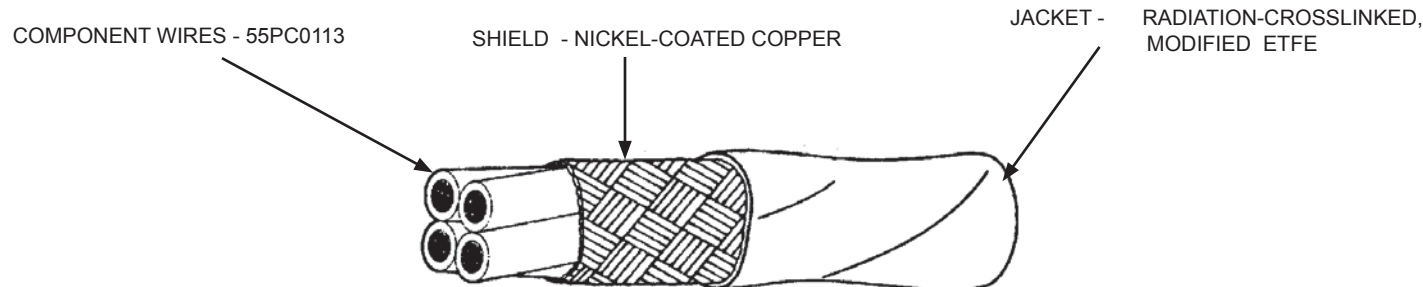


| SPECIFICATION CONTROL DRAWING                                                            |  |  |  |  |  |  | 55PC1143 |          |
|------------------------------------------------------------------------------------------|--|--|--|--|--|--|----------|----------|
| TITLE                                                                                    |  |  |  |  |  |  | Date     | Revision |
| FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT                      |  |  |  |  |  |  | 2-21-08  | B        |
| 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 |
| 55PC1143-26-*            | 26                         | 38                      | .0060                       | .0075          | .098                        | .111            | .124                   | 10.86                      | 11.38                  |
| 55PC1143-24-*            | 24                         | 38                      | .0060                       | .0080          | .111                        | .125            | .138                   | 14.03                      | 14.59                  |
| 55PC1143-22-*            | 22                         | 38                      | .0060                       | .0080          | .123                        | .140            | .156                   | 18.57                      | 19.19                  |
| 55PC1143-20-*            | 20                         | 38                      | .0060                       | .0080          | .142                        | .161            | .180                   | 25.67                      | 26.42                  |
| 55PC1143-18-*            | 18                         | 38                      | .0065                       | .0085          | .163                        | .186            | .209                   | 36.10                      | 37.15                  |
| 55PC1143-16-*            | 16                         | 38                      | .0065                       | .0085          | .181                        | .205            | .230                   | 44.44                      | 45.52                  |
| 55PC1143-14-*            | 14                         | 38                      | .0070                       | .0090          | .213                        | .243            | .273                   | 64.85                      | 66.35                  |
| 55PC1143-12-*            | 12                         | 38                      | .0075                       | .0095          | .252                        | .296            | .339                   | 98.21                      | 105.09                 |
| 55PC1143-10-*            | 10                         | 36                      | .0080                       | .0100          | .285                        | .346            | .407                   | 152.70                     | 157.77                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                    |  |                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |  |                                                                                                                                                                                                                    |

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 TEST (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, red, yellow, green and blue component wires; white jacket:  
55PC1143-22-2/4/5/6-9

1/ See footer section on page 1

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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