

# SPECIFICATION CONTROL DRAWING

SCD

**55PC1811**

Title

ONE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT

Date

7-9-15

Revision

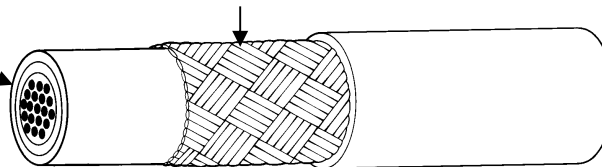
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRE - 55PC0811

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



## CABLE CONSTRUCTION DETAILS

| PART NUMBER<br><u>1/</u> | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(inch) |                | OUTSIDE DIAMETER<br>(inch) |                 |                     | WEIGHT<br>(lbs/1000 ft.) |                     |
|--------------------------|----------------------------|-------------------------|----------------------------|----------------|----------------------------|-----------------|---------------------|--------------------------|---------------------|
|                          |                            |                         | LOWER<br>SPEC LIMIT        | TARGET<br>WALL | LOWER<br>SPEC LIMIT        | TARGET<br>VALUE | UPPER<br>SPEC LIMIT | TARGET<br>VALUE          | UPPER<br>SPEC LIMIT |
| 55PC1811-24-*            | 24                         | 38                      | .0050                      | .0060          | .069                       | .073            | .077                | 5.74                     | 6.04                |
| 55PC1811-22-*            | 22                         | 38                      | .0050                      | .0060          | .075                       | .079            | .083                | 7.07                     | 7.40                |
| 55PC1811-20-*            | 20                         | 38                      | .0050                      | .0060          | .084                       | .087            | .091                | 9.14                     | 9.49                |
| 55PC1811-18-*            | 18                         | 38                      | .0050                      | .0060          | .094                       | .097            | .101                | 12.06                    | 12.51               |
| 55PC1811-16-*            | 16                         | 38                      | .0050                      | .0060          | .102                       | .105            | .109                | 14.44                    | 14.92               |
| 55PC1811-14-*            | 14                         | 38                      | .0050                      | .0065          | .118                       | .122            | .127                | 20.29                    | 20.90               |
| 55PC1811-12-*            | 12                         | 38                      | .0050                      | .0065          | .137                       | .141            | .145                | 28.43                    | 29.16               |
| 55PC1811-10-*            | 10                         | 38                      | .0050                      | .0065          | .155                       | .163            | .171                | 41.33                    | 42.81               |
| 55PC1811-8-*             | 8                          | 38                      | .0070                      | .0090          | .219                       | .231            | .243                | 73.26                    | 75.89               |
| 55PC1811-6-*             | 6                          | 38                      | .0070                      | .0090          | .263                       | .277            | .291                | 110.56                   | 114.19              |
| 55PC1811-4-*             | 4                          | 36                      | .0080                      | .0100          | .334                       | .352            | .370                | 178.54                   | 184.20              |
| 55PC1811-2-*             | 2                          | 36                      | .0085                      | .0110          | .405                       | .426            | .447                | 269.90                   | 278.04              |
| 55PC1811-0-*             | 0                          | 34                      | .0085                      | .0110          | .488                       | .514            | .540                | 408.52                   | 420.27              |

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.  
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.

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.





## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CROSSLINKED 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

### 1/ PART NUMBER:

The "\*" in the part numbers on page 1 shall be replaced by color code designators with a dash separating the component wire color from the jacket color.

Example: AWG 22, white component wire; white jacket:

55PC1811-22-9-9