

# SPECIFICATION CONTROL DRAWING

SCD

**55PC0811**

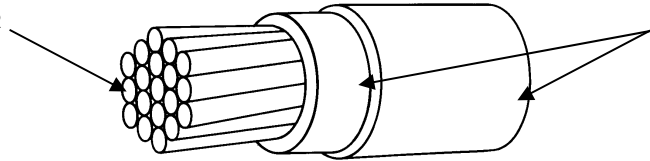
Title WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED,  
NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT

Date 6-21-17

Revision G

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

CONDUCTOR - TIN-COATED COPPER



INSULATION - RADIATION-CROSSLINKED,  
MODIFIED ETFE

## CONSTRUCTION DETAILS

| PART NUMBER<br><u>1/</u> | WIRE<br>SIZE<br>(AWG) | CONDUCTOR<br>STRANDING<br>(number x AWG) | DIAMETER OF<br>STRANDED CONDUCTOR<br>(inch) |                 |                     | MAXIMUM<br>RESISTANCE<br>AT 20°C<br>(ohms/1000 ft.) | FINISHED WIRE<br>DIAMETER<br>(inch) |                 |                     | WEIGHT<br>(lbs/1000 ft.) |                     |
|--------------------------|-----------------------|------------------------------------------|---------------------------------------------|-----------------|---------------------|-----------------------------------------------------|-------------------------------------|-----------------|---------------------|--------------------------|---------------------|
|                          |                       |                                          | LOWER<br>SPEC LIMIT                         | TARGET<br>VALUE | UPPER<br>SPEC LIMIT |                                                     | LOWER<br>SPEC LIMIT                 | TARGET<br>VALUE | UPPER<br>SPEC LIMIT | TARGET<br>VALUE          | UPPER<br>SPEC LIMIT |
| 55PC0811-26-*            | 26                    | 19 x 38                                  | .0175                                       | .0183           | .0191               | 41.3                                                | .0366                               | .0385           | .0404               | 1.55                     | 1.70                |
| 55PC0811-24-*            | 24                    | 19 x 36                                  | .0225                                       | .0233           | .0241               | 26.2                                                | .0416                               | .0435           | .0454               | 2.18                     | 2.34                |
| 55PC0811-22-*            | 22                    | 19 x 34                                  | .0285                                       | .0293           | .0301               | 16.2                                                | .0476                               | .0495           | .0514               | 3.12                     | 3.30                |
| 55PC0811-20-*            | 20                    | 19 x 32                                  | .0365                                       | .0375           | .0385               | 9.88                                                | .0561                               | .0580           | .0599               | 4.64                     | 4.85                |
| 55PC0811-18-*            | 18                    | 19 x 30                                  | .0452                                       | .0464           | .0476               | 6.23                                                | .0659                               | .0680           | .0701               | 6.94                     | 7.27                |
| 55PC0811-16-*            | 16                    | 19 x 29                                  | .0514                                       | .0527           | .0538               | 4.81                                                | .0737                               | .0760           | .0783               | 8.80                     | 9.17                |
| 55PC0811-14-*            | 14                    | 19 x 27                                  | .0644                                       | .0659           | .0674               | 3.06                                                | .0896                               | .0920           | .0944               | 13.50                    | 13.99               |
| 55PC0811-12-*            | 12                    | 37 x 28                                  | .0825                                       | .0845           | .0865               | 2.02                                                | .1076                               | .1105           | .1134               | 20.45                    | 21.08               |
| 55PC0811-10-*            | 10                    | 37 x 26                                  | .1050                                       | .1070           | .1090               | 1.26                                                | .1290                               | .1330           | .1370               | 31.73                    | 32.78               |
| 55PC0811-8-*             | 8                     | 133 x 29                                 | .158                                        | .163            | .169                | .701                                                | .188                                | .196            | .203                | 56.8                     | 59.9                |
| 55PC0811-6-*             | 6                     | 133 x 27                                 | .198                                        | .205            | .212                | .445                                                | .233                                | .242            | .251                | 89.7                     | 94.7                |
| 55PC0811-4-*             | 4                     | 133 x 25                                 | .250                                        | .260            | .268                | .280                                                | .300                                | .311            | .322                | 146.                     | 154.                |
| 55PC0811-2-*             | 2                     | 665 x 30                                 | .320                                        | .330            | .340                | .183                                                | .370                                | .383            | .397                | 227.                     | 240.                |
| 55PC0811-0-*             | 0                     | 1045 x 30                                | .395                                        | .415            | .425                | .116                                                | .449                                | .466            | .483                | 343.                     | 366.                |
| 55PC0811-00-*            | 00                    | 1330 x 30                                | .440                                        | .462            | .475                | .091                                                | .505                                | .525            | .545                | 450.                     | 481.                |
| 55PC0811-000-*           | 000                   | 1665 x 30                                | .515                                        | .528            | .540                | .071                                                | .568                                | .590            | .612                | 559.                     | 599.                |
| 55PC0811-0000-*          | 0000                  | 2109 x 30                                | .565                                        | .595            | .605                | .056                                                | .646                                | .670            | .694                | 684.                     | 735.                |

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.  
TE Connectivity 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. OTHER CODES AND SUFFIXES MAY BE  
ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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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.



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## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CROSSLINKED VERIFICATION: 300 ± 3°C for 1 hour

IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

INSULATION ELONGATION AND TENSILE STRENGTH:

Total Insulation,

Elongation, 50% (minimum)

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

INSULATION FLAWS:

Spark Test, 3.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS: .010 in. (nominal) total insulation

SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 inch (maximum) in 12 inches

VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms)

### 1/ PART NUMBER:

The "\*" in the part numbers on page 1 shall be replaced by a color code designator.

Example: AWG 22, white: 55PC0811-22-9

AWG 22, white with a black stripe: 55PC0811-22-90