

SPECIFICATION CONTROL DRAWING

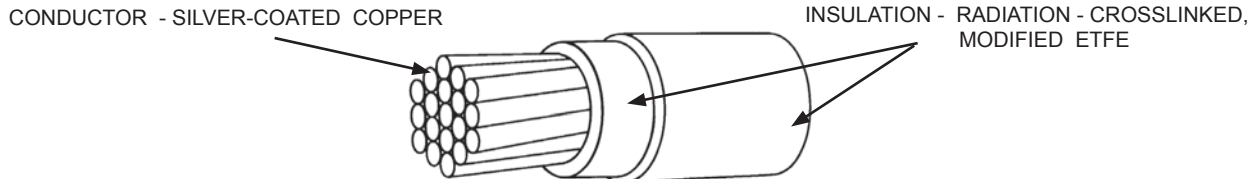
55PC0812

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

Date 1-17-12

Revision D

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



CONSTRUCTION DETAILS

| PART NUMBER 1/ | WIRE SIZE (AWG) | CONDUCTOR STRANDING (number x AWG) | CONDUCTOR DIAMETER (in.) | | | MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) | FINISHED WIRE | | | WEIGHT (lbs/1000 ft.) | |
|-------------------|--------------------|---------------------------------------|-----------------------------|--------------|------------------|--|-------------------|--------------|------------------|--------------------------|------------------|
| | | | LOWER SPEC LIMIT | TARGET VALUE | UPPER SPEC LIMIT | | DIAMETER (in.) | | | TARGET VALUE | UPPER SPEC LIMIT |
| | | | | | | | LOWER SPEC LIMIT | TARGET VALUE | UPPER SPEC LIMIT | | |
| 55PC0812-26-* | 26 | 19 x 38 | .0175 | .0183 | .0191 | 38.4 | .0366 | .0385 | .0404 | 1.55 | 1.70 |
| 55PC0812-24-* | 24 | 19 x 36 | .0225 | .0233 | .0241 | 24.3 | .0416 | .0435 | .0454 | 2.18 | 2.34 |
| 55PC0812-22-* | 22 | 19 x 34 | .0285 | .0293 | .0301 | 15.1 | .0476 | .0495 | .0514 | 3.12 | 3.30 |
| 55PC0812-20-* | 20 | 19 x 32 | .0365 | .0375 | .0385 | 9.19 | .0561 | .0580 | .0599 | 4.64 | 4.85 |
| 55PC0812-18-* | 18 | 19 x 30 | .0452 | .0464 | .0476 | 5.79 | .0659 | .0680 | .0701 | 6.94 | 7.27 |
| 55PC0812-16-* | 16 | 19 x 29 | .0514 | .0527 | .0538 | 4.52 | .0737 | .0760 | .0783 | 8.80 | 9.17 |
| 55PC0812-14-* | 14 | 19 x 27 | .0644 | .0659 | .0674 | 2.88 | .0896 | .0920 | .0944 | 13.50 | 13.99 |
| 55PC0812-12-* | 12 | 37 x 28 | .0825 | .0845 | .0865 | 1.90 | .1076 | .1105 | .1134 | 20.45 | 21.08 |
| 55PC0812-10-* | 10 | 37 x 26 | .1050 | .1070 | .1090 | 1.19 | .1290 | .1330 | .1370 | 31.73 | 32.78 |
| 55PC0812-8-* | 8 | 133 x 29 | .158 | .163 | .169 | .658 | .188 | .196 | .203 | 56.8 | 59.9 |
| 55PC0812-6-* | 6 | 133 x 27 | .198 | .205 | .212 | .418 | .233 | .242 | .251 | 89.7 | 94.7 |
| 55PC0812-4-* | 4 | 133 x 25 | .250 | .260 | .268 | .264 | .300 | .311 | .322 | 146. | 154. |
| 55PC0812-2-* | 2 | 665 x 30 | .320 | .330 | .340 | .170 | .370 | .383 | .397 | 227. | 240. |
| 55PC0812-1-* | 1 | 817 x 30 | .360 | .370 | .380 | .139 | .408 | .423 | .438 | 278. | 288. |
| 55PC0812-0-* | 0 | 1045 x 30 | .395 | .415 | .425 | .108 | .449 | .466 | .483 | 343. | 366. |
| 55PC0812-00-* | 00 | 1330 x 30 | .440 | .462 | .475 | .085 | .505 | .525 | .545 | 450. | 481. |

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. 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: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

COLOR: White preferred

CROSSLINK 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/in² (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)

PART NUMBER:

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

1/ Example: AWG 22, white: 55PC0812-22-9

AWG 22, white with black stripe: 55PC0812-22-90

1/ See footer section on page 1

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