

# SPECIFICATION CONTROL DRAWING

**55PC0211**

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,  
GENERAL PURPOSE, LIGHT AIRFRAME

Date

07-08-04

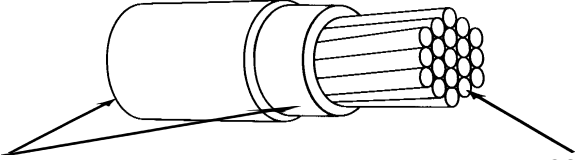
Revision

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TITLE

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

INSULATION - RADIATION-CROSSLINKED,  
MODIFIED ETFE



## CONSTRUCTION DETAILS

| PART NUMBER<br>1/ | WIRE<br>SIZE<br>(AWG) | CONDUCTOR<br>STRANDING<br>(number x AWG) | CONDUCTOR DIAMETER<br>(in.) |                 |                        | MAXIMUM<br>RESISTANCE<br>AT 20°C<br>(ohms/1000 ft.) | LOWER SPEC<br>LIMIT | TARGET<br>VALUE | UPPER SPEC<br>LIMIT | DIA METER<br>(in.) | WEIGHT<br>(lbs/1000 ft.) |
|-------------------|-----------------------|--|-----------------------------|-----------------|------------------------|---|---------------------|-----------------|---------------------|--------------------|--------------------------|
|                   |                       |  | UPPER<br>SPEC<br>LIMIT      | TARGET<br>VALUE | LOWER<br>SPEC<br>LIMIT |   |                     |                 |                     |                    |                          |
| 55PC0211-26*      | 19                    | x 38                                     | .0175                       | .0183           | .0191                  | 41.3  | .0328               | .0345           | .0362               | 1.38               | 1.52                     |
| 55PC0211-24*      | 19                    | x 36                                     | .0225                       | .0233           | .0241                  | 26.2  | .0378               | .0395           | .0412               | 1.98               | 2.13                     |
| 55PC0211-22*      | 19                    | x 34                                     | .0285                       | .0293           | .0301                  | 16.2  | .0438               | .0455           | .0472               | 2.90               | 3.06                     |
| 55PC0211-20*      | 19                    | x 32                                     | .0365                       | .0375           | .0385                  | 9.88  | .0523               | .0540           | .0557               | 4.38               | 4.57                     |
| 55PC0211-18*      | 19                    | x 30                                     | .0452                       | .0464           | .0476                  | 6.23  | .0616               | .0635           | .0654               | 6.59               | 6.90                     |
| 55PC0211-16*      | 19                    | x 29                                     | .0514                       | .0527           | .0538                  | 4.81  | .0690               | .0710           | .0730               | 8.37               | 8.70                     |
| 55PC0211-14*      | 19                    | x 27                                     | .0644                       | .0659           | .0674                  | 3.06  | .0838               | .0860           | .0882               | 12.88              | 13.33                    |
| 55PC0211-12*      | 37                    | x 28                                     | .0825                       | .0845           | .0865                  | 2.02  | .1020               | .1047           | .1074               | 19.73              | 20.30                    |
| 55PC0211-10*      | 37                    | x 26                                     | .1050                       | .1070           | .1090                  | 1.26  | .1252               | .1290           | .1328               | 31.12              | 32.13                    |
| 55PC0211-8*       | 133                   | x 29                                     | .158                        | .169            | .188                   | .196  | .203                | .210            | .217                | 56.8               | 59.9                     |
| 55PC0211-6*       | 133                   | x 27                                     | .198                        | .205            | .212                   | .445  | .233                | .242            | .251                | 89.7               | 94.7                     |
| 55PC0211-4*       | 133                   | x 25                                     | .250                        | .260            | .268                   | .280  | .300                | .311            | .322                | 145.               | 154.                     |
| 55PC0211-2*       | 665                   | x 30                                     | .320                        | .330            | .340                   | .183  | .370                | .383            | .397                | 227.               | 240.                     |
| 55PC0211-1*       | 817                   | x 30                                     | .360                        | .370            | .380                   | .152  | .410                | .424            | .438                | 278.               | 291.                     |
| 55PC0211-0*       | 1045                  | x 30                                     | .395                        | .415            | .425                   | .116  | .449                | .466            | .483                | 343.               | 366.                     |
| 55PC0211-00*      | 1330                  | x 30                                     | .440                        | .462            | .475                   | .091  | .505                | .525            | .545                | 450.               | 481.                     |

## WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°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  
 Spark Test, 3.0 kV (rms)  
 Impulse Dielectric Test, 8.0 kV (peak)  
 INSULATION THICKNESS: .008 in. (nominal) total insulation  
 Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)  
 Elongation, 50% (minimum)  
 Total Insulation,  
 INSULATION ELONGATION AND TENSILE STRENGTH:  
 SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in.(maximum) in 12 in.  
 VOLTAGE WITHSTAND TEST (Post Environmental):  
 2500 volts (rms)  
 PART NUMBER:  
 The "\*\*\*\*" in the part numbers above shall be replaced by  
 color code designators.  
 1/ Example: AWG 22, white: 55PC0211-22-9  
 AWG 22, white with black stripe: 55PC0211-22-90  
 Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.  
 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.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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.

**Raychem** Wire & Cable  
 501 Oakside Avenue  
 Redwood City, CA 94063-3800  
 Phone: 1-800-227-8816  
 Fax: 1-650-361-6297



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