

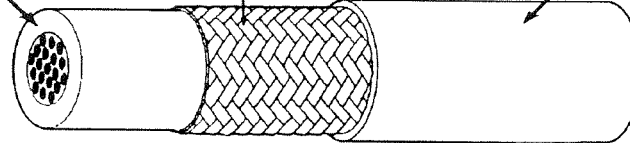
# SPECIFICATION CONTROL DRAWING

**55PC2111**TITLE  
ONE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLTDate  
11-13-95Revision  
E

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

COMPONENT WIRE - 55PC0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>STRAND<br>THICKNESS<br>( $\pm .0004$ ) | JACKET THICKNESS<br>(in.) |                | DIAMETER<br>( in.)  |                 |                     | WEIGHT<br>( lbs/1000 ft.) |                     |
|---------------|----------------------------|--------------------------------------------------|---------------------------|----------------|---------------------|-----------------|---------------------|---------------------------|---------------------|
|               |                            |                                                  | LOWER SPEC<br>LIMIT       | TARGET<br>WALL | LOWER SPEC<br>LIMIT | TARGET<br>VALUE | UPPER SPEC<br>LIMIT | TARGET<br>VALUE           | UPPER SPEC<br>LIMIT |
| 55PC2111-24-* | 24                         | .0015                                            | .0055                     | .0070          | .052                | .056            | .060                | 3.51                      | 3.82                |
| 55PC2111-22-* | 22                         | .0015                                            | .0055                     | .0070          | .058                | .062            | .066                | 4.63                      | 4.97                |
| 55PC2111-20-* | 20                         | .0015                                            | .0055                     | .0070          | .066                | .070            | .074                | 6.36                      | 6.75                |
| 55PC2111-18-* | 18                         | .0015                                            | .0055                     | .0070          | .075                | .080            | .084                | 8.89                      | 9.41                |
| 55PC2111-16-* | 16                         | .0015                                            | .0055                     | .0070          | .083                | .087            | .092                | 10.93                     | 11.48               |
| 55PC2111-14-* | 14                         | .0015                                            | .0055                     | .0070          | .097                | .102            | .106                | 15.89                     | 16.57               |
| 55PC2111-12-* | 12                         | .0015                                            | .0060                     | .0075          | .117                | .122            | .127                | 23.55                     | 24.40               |
| 55PC2111-10-* | 10                         | .0015                                            | .0060                     | .0075          | .142                | .148            | .154                | 36.13                     | 37.42               |

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

**VOLTAGE RATING: 600 volts (rms)**

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

CROSSLINK VERIFICATION:  $300 \pm 3^\circ\text{C}$  for 1 hour

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), 60 Hz, 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

**SHIELD COVERAGE: 85% (minimum)****VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):**

1000 volts (rms), 60 Hz, 1 minute

**PART NUMBER:**

The "\*" in the part numbers above shall be replaced by a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 22, white component wire;  
white jacket: 55PC2111-22-9-9

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

**Raychem**

Raychem Corporation  
300 Constitution Drive, Menlo Park, California 94025  
1-800-2 Raychem Fax: 1-415-361-6297

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