

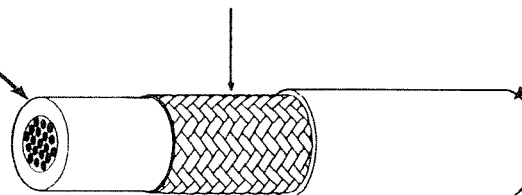
# SPECIFICATION CONTROL DRAWING

**55PC2116**TITLE  
ONE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLTDate  
1-12-96Revision  
C

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

COMPONENT WIRE - 55PC0116

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 |
| 55PC2116-24-* | 24                         | .0015                                            | .0055                     | .0070          | .052                | .056            | .060                | 3.51                      | 3.82                |
| 55PC2116-22-* | 22                         | .0015                                            | .0055                     | .0070          | .058                | .062            | .066                | 4.63                      | 4.97                |
| 55PC2116-20-* | 20                         | .0015                                            | .0055                     | .0070          | .066                | .070            | .074                | 6.36                      | 6.75                |
| 55PC2116-18-* | 18                         | .0015                                            | .0055                     | .0070          | .075                | .080            | .084                | 8.89                      | 9.41                |
| 55PC2116-16-* | 16                         | .0015                                            | .0055                     | .0070          | .083                | .087            | .092                | 10.93                     | 11.48               |

## 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°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: 55PC2116-22-9-9

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

**Raychem**

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