

# SPECIFICATION CONTROL DRAWING

55PC1132

TITLE

THREE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date

1-7-94

Revision

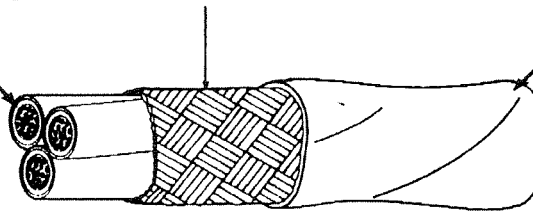
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRES - 55PC0112

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | 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 |
| 55PC1132-24-* | 24                         | 38                      | .0055                     | .0070          | .104                | .108            | .113                | 11.23                      | 11.67               |
| 55PC1132-22-* | 22                         | 38                      | .0060                     | .0075          | .118                | .122            | .127                | 14.85                      | 15.39               |
| 55PC1132-20-* | 20                         | 38                      | .0060                     | .0075          | .135                | .139            | .144                | 20.30                      | 20.91               |
| 55PC1132-18-* | 18                         | 38                      | .0060                     | .0075          | .155                | .160            | .165                | 28.14                      | 28.94               |
| 55PC1132-16-* | 16                         | 38                      | .0060                     | .0080          | .172                | .177            | .182                | 34.67                      | 35.57               |
| 55PC1132-14-* | 14                         | 38                      | .0060                     | .0080          | .203                | .208            | .214                | 50.00                      | 51.12               |
| 55PC1132-12-* | 12                         | 38                      | .0060                     | .0080          | .244                | .249            | .255                | 73.31                      | 74.78               |

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

CROSSLINKING PROOF TEST: 300 ± 3°C for 1 hour

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

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 slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 22, red, blue and yellow component wires;  
white jacket: 55PC1132-22-2/6/4-9

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

**Raychem**

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