

# SPECIFICATION CONTROL DRAWING

55PC1234

TITLE  
THREE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date  
1-15-93

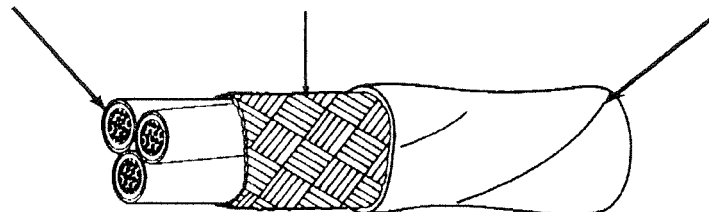
Revision

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

COMPONENT WIRES - 55PC0214

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) |             | DIAMETER (in.)   |              |                  | WEIGHT (lbs/1000 ft.) |                  |
|---------------|----------------------|-------------------|------------------------|-------------|------------------|--------------|------------------|-----------------------|------------------|
|               |                      |                   | LOWER SPEC LIMIT       | TARGET WALL | LOWER SPEC LIMIT | TARGET VALUE | UPPER SPEC LIMIT | TARGET VALUE          | UPPER SPEC LIMIT |
| 55PC1234-26-* | 26                   | 38                | .0055                  | .0070       | .102             | .107         | .112             | 9.89                  | 10.39            |
| 55PC1234-24-* | 24                   | 38                | .0055                  | .0070       | .113             | .118         | .123             | 12.42                 | 12.93            |
| 55PC1234-22-* | 22                   | 38                | .0055                  | .0070       | .126             | .131         | .136             | 16.05                 | 16.62            |
| 55PC1234-20-* | 20                   | 38                | .0055                  | .0070       | .144             | .149         | .154             | 21.74                 | 22.41            |
| 55PC1234-18-* | 18                   | 38                | .0055                  | .0070       | .166             | .171         | .176             | 29.93                 | 30.81            |
| 55PC1234-16-* | 16                   | 38                | .0055                  | .0070       | .182             | .187         | .192             | 36.40                 | 37.38            |

## 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

CROSSLINKING PROOF TEST: 300 ± 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 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: 55PC1234-22-2/6/4-9

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

**Raychem**

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