

# SPECIFICATION CONTROL DRAWING

55PC1123

TITLE

TWO CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date

08-07-01

Revision

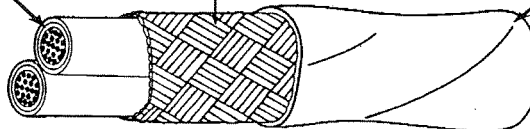
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRES - 55PC0113

SHIELD - NICKLE-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 |
| 55PC1123-26-* | 26                   | 38                | .0050                  | .0065       | .088             | .092         | .096             | 6.86                  | 7.22             |
| 55PC1123-24-* | 24                   | 38                | .0050                  | .0065       | .097             | .101         | .105             | 8.55                  | 8.91             |
| 55PC1123-22-* | 22                   | 38                | .0050                  | .0065       | .109             | .114         | .119             | 11.10                 | 11.60            |
| 55PC1123-20-* | 20                   | 38                | .0055                  | .0070       | .126             | .130         | .134             | 14.95                 | 15.44            |
| 55PC1123-18-* | 18                   | 38                | .0055                  | .0070       | .145             | .149         | .154             | 20.40                 | 21.03            |
| 55PC1123-16-* | 16                   | 38                | .0055                  | .0070       | .159             | .164         | .169             | 24.81                 | 25.54            |
| 55PC1123-14-* | 14                   | 38                | .0060                  | .0075       | .189             | .194         | .199             | 35.52                 | 36.41            |
| 55PC1123-12-* | 12                   | 38                | .0060                  | .0080       | .227             | .233         | .238             | 51.71                 | 52.88            |
| 55PC1123-10-* | 10                   | 36                | .0065                  | .0085       | .280             | .291         | .302             | 81.65                 | 85.95            |

## 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), 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, white and black component wires;  
white jacket: 55PC1123-22-9/0-9

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

**Raychem**

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