

# SPECIFICATION CONTROL DRAWING

55PC2124

TITLE

TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLT

Date

12-7-95

Revision

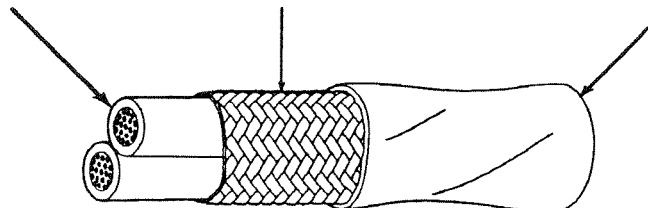
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRES - 55PC0114

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE



## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR SIZE (AWG) | SHIELD STRAND THICKNESS (± .0004) | 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 |
| 55PC2124-24-* | 24                   | .0015                             | .0060                  | .0075       | .088             | .093         | .097             | 6.48                  | 6.95             |
| 55PC2124-22-* | 22                   | .0015                             | .0060                  | .0075       | .100             | .105         | .109             | 8.68                  | 9.20             |
| 55PC2124-20-* | 20                   | .0015                             | .0060                  | .0080       | .117             | .122         | .126             | 12.24                 | 12.86            |
| 55PC2124-18-* | 18                   | .0015                             | .0060                  | .0080       | .136             | .141         | .145             | 17.29                 | 18.09            |
| 55PC2124-16-* | 16                   | .0015                             | .0060                  | .0080       | .150             | .156         | .161             | 21.36                 | 22.25            |

## 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 ± 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 color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 22, red and blue component wires; white jacket: 55PC2124-22-2/6-9

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

**Raychem**

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