

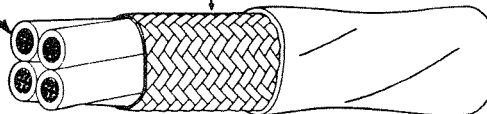
# SPECIFICATION CONTROL DRAWING

**55PC2143**TITLE  
FOUR CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLTDate  
10-05-99Revision  
A

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

COMPONENT WIRES - 55PC0113

SHIELD - NICKEL-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETEFE

## 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 |
| 55PC2143-26-* | 26                   | .0015                             | .0065                  | .0085       | .089             | .102         | .115             | 8.44                  | 9.02             |
| 55PC2143-24-* | 24                   | .0015                             | .0065                  | .0085       | .100             | .115         | .131             | 11.36                 | 12.07            |
| 55PC2143-22-* | 22                   | .0015                             | .0070                  | .0090       | .115             | .131         | .148             | 15.63                 | 16.39            |
| 55PC2143-20-* | 20                   | .0015                             | .0070                  | .0090       | .133             | .152         | .172             | 22.25                 | 23.18            |
| 55PC2143-18-* | 18                   | .0015                             | .0075                  | .0095       | .154             | .177         | .201             | 32.18                 | 33.41            |
| 55PC2143-16-* | 16                   | .0015                             | .0075                  | .0095       | .172             | .197         | .222             | 40.08                 | 41.50            |
| 55PC2143-14-* | 14                   | .0015                             | .0080                  | .0100       | .204             | .235         | .266             | 59.69                 | 61.52            |
| 55PC2143-12-* | 12                   | .0015                             | .0085                  | .0110       | .247             | .285         | .323             | 89.60                 | 91.91            |
| 55PC2143-10-* | 10                   | .0015                             | .0085                  | .0110       | .305             | .352         | .400             | 139.71                | 143.20           |

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

CROSSLINK VERIFICATION: 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 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, blue, yellow and green component wires; white jacket:

55PC2143-22-2/6/4/5-9

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

**Raychem**

300 Constitution Drive  
Menlo Park, California 94025  
1-800-2 Raychem Fax: 1-650-361-6297