

SPECIFICATION CONTROL DRAWING

55PC6142

TITLE

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

Date

12-21-99

Revision

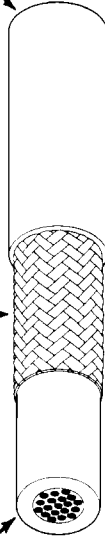
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This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

COMPONENT WIRE - 55PC0116

SHIELD - NICKEL-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 |
| 55PC6142-26* | 26 | .0015 | .0055 | .0070 | .047 | .051 | .055 | 2.73 | 3.01 |
| 55PC6142-24* | 24 | .0015 | .0055 | .0070 | .052 | .056 | .060 | 3.51 | 3.82 |
| 55PC6142-22* | 22 | .0015 | .0055 | .0070 | .058 | .062 | .066 | 4.63 | 4.97 |
| 55PC6142-20* | 20 | .0015 | .0055 | .0070 | .066 | .070 | .074 | 6.36 | 6.75 |
| 55PC6142-18* | 18 | .0015 | .0055 | .0070 | .075 | .080 | .084 | 8.89 | 9.41 |
| 55PC6142-16* | 16 | .0015 | .0055 | .0070 | .083 | .087 | .092 | 10.93 | 11.48 |
| 55PC6142-14* | 14 | .0015 | .0055 | .0070 | .097 | .102 | .106 | 15.89 | 16.57 |
| 55PC6142-12* | 12 | .0015 | .0060 | .0075 | .117 | .122 | .127 | 23.55 | 24.40 |
| 55PC6142-10* | 10 | .0015 | .0060 | .0075 | .142 | .148 | .154 | 36.13 | 37.42 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
1000 volts (rms), 60 Hz, 1 minute

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/in² (minimum)

JACKET FLAWS:

Spark Test, 1000 volts (rms), 60 Hz, 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

PART NUMBER:

The "*" in the part numbers above shall be replaced by a color code designator with a dash separating the component wire color from the jacket color.

Example: AWG 22, white component wire;

white jacket: 55PC6142-22-9-9

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