

SPECIFICATION CONTROL DRAWING

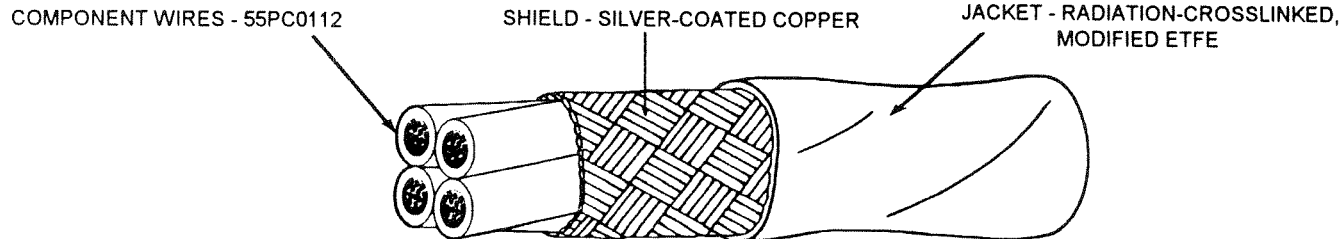
55PC1142

TITLE
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date
5-6-94

Revision

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



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 |
| | | | | | | | | | |
| 55PC1142-24* | 24 | 38 | .0060 | .0080 | .111 | .125 | .138 | 14.03 | 14.59 |
| 55PC1142-22* | 22 | 38 | .0060 | .0080 | .123 | .140 | .156 | 18.57 | 19.19 |
| 55PC1142-20* | 20 | 38 | .0060 | .0080 | .142 | .161 | .180 | 25.67 | 26.42 |
| 55PC1142-18* | 18 | 38 | .0065 | .0085 | .163 | .186 | .209 | 36.10 | 37.15 |
| 55PC1142-16* | 16 | 38 | .0065 | .0085 | .181 | .205 | .230 | 44.44 | 45.52 |
| 55PC1142-14* | 14 | 38 | .0070 | .0090 | .213 | .243 | .273 | 64.85 | 66.35 |
| 55PC1142-12* | 12 | 38 | .0075 | .0095 | .252 | .296 | .339 | 98.21 | 105.09 |

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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/in² (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, yellow and green component wires; white jacket: 55PC1142-22-2/6/4/5-9

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