

# SPECIFICATION CONTROL DRAWING

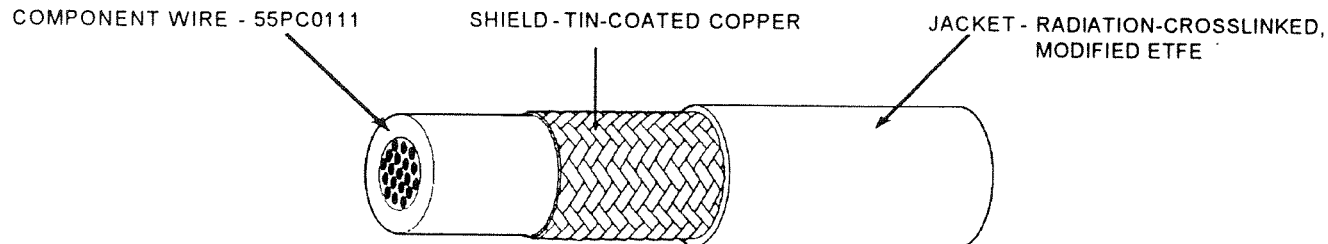
**55PC2111**

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

Date 11-13-95

Revision E

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



### 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 |
| 55PC2111-24-* | 24                   | .0015                             | .0055                  | .0070       | .052             | .056         | .060             | 3.51                  | 3.82             |
| 55PC2111-22-* | 22                   | .0015                             | .0055                  | .0070       | .058             | .062         | .066             | 4.63                  | 4.97             |
| 55PC2111-20-* | 20                   | .0015                             | .0055                  | .0070       | .066             | .070         | .074             | 6.36                  | 6.75             |
| 55PC2111-18-* | 18                   | .0015                             | .0055                  | .0070       | .075             | .080         | .084             | 8.89                  | 9.41             |
| 55PC2111-16-* | 16                   | .0015                             | .0055                  | .0070       | .083             | .087         | .092             | 10.93                 | 11.48            |
| 55PC2111-14-* | 14                   | .0015                             | .0055                  | .0070       | .097             | .102         | .106             | 15.89                 | 16.57            |
| 55PC2111-12-* | 12                   | .0015                             | .0060                  | .0075       | .117             | .122         | .127             | 23.55                 | 24.40            |
| 55PC2111-10-* | 10                   | .0015                             | .0060                  | .0075       | .142             | .148         | .154             | 36.13                 | 37.42            |

### 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 a color code designator with a dash separating the component wire color from the jacket color.  
 Example: AWG 22, white component wire;  
 white jacket: 55PC2111-22-9-9

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