

# SPECIFICATION CONTROL DRAWING

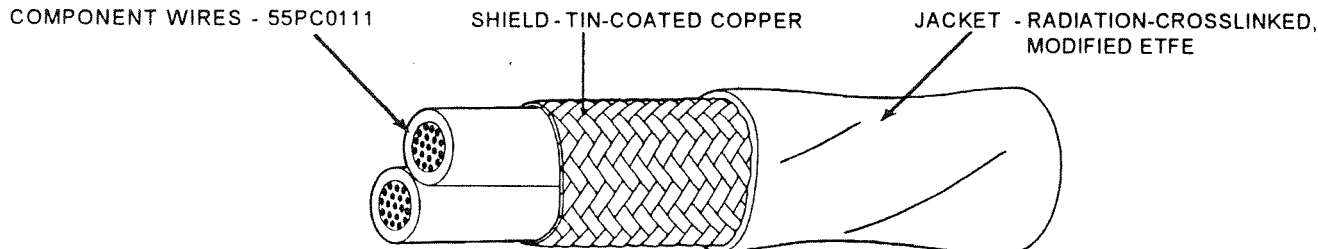
**55PC2121**

TITLE TWO 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 |
|               |                      |                                   | 55PC2121-24-*          | 24          | .0015            | .0060        | .0075            | .088                  | .093             |
| 55PC2121-22-* | 22                   | .0015                             | .0060                  | .0075       | .100             | .105         | .109             | 8.68                  | 9.20             |
| 55PC2121-20-* | 20                   | .0015                             | .0060                  | .0080       | .117             | .122         | .126             | 12.24                 | 12.86            |
| 55PC2121-18-* | 18                   | .0015                             | .0060                  | .0080       | .136             | .141         | .145             | 17.29                 | 18.09            |
| 55PC2121-16-* | 16                   | .0015                             | .0060                  | .0080       | .150             | .156         | .161             | 21.36                 | 22.25            |
| 55PC2121-14-* | 14                   | .0015                             | .0065                  | .0085       | .180             | .186         | .191             | 31.45                 | 32.62            |
| 55PC2121-12-* | 12                   | .0015                             | .0070                  | .0090       | .218             | .225         | .231             | 46.80                 | 48.31            |
| 55PC2121-10-* | 10                   | .0015                             | .0075                  | .0095       | .270             | .278         | .285             | 72.36                 | 74.50            |

### 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: 55PC2121-22-2/6-9

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