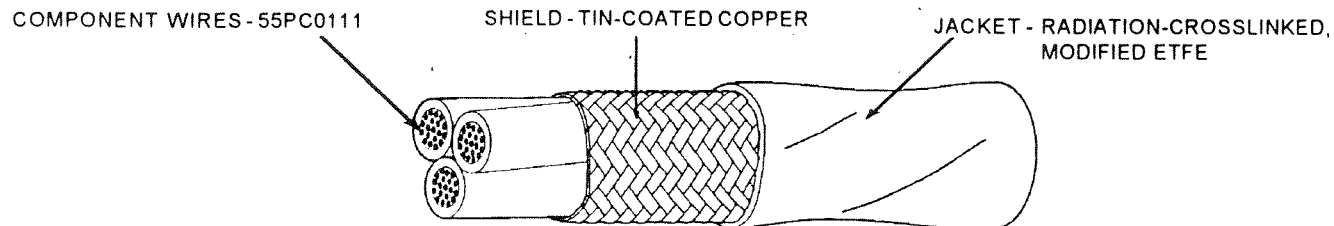


# SPECIFICATION CONTROL DRAWING

**55PC2131**TITLE  
THREE CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, 600 VOLTDate  
11-13-95Revision  
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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 |
| 55PC2131-24-* | 24                   | .0015                             | .0060                  | .0080       | .095             | .100         | .105             | 8.89                  | 9.45             |
| 55PC2131-22-* | 22                   | .0015                             | .0060                  | .0080       | .108             | .113         | .118             | 12.09                 | 12.72            |
| 55PC2131-20-* | 20                   | .0015                             | .0065                  | .0085       | .126             | .131         | .136             | 17.21                 | 17.95            |
| 55PC2131-18-* | 18                   | .0015                             | .0065                  | .0085       | .146             | .152         | .157             | 24.62                 | 25.60            |
| 55PC2131-16-* | 16                   | .0015                             | .0070                  | .0085       | .161             | .168         | .175             | 30.67                 | 31.93            |
| 55PC2131-14-* | 14                   | .0015                             | .0070                  | .0090       | .194             | .200         | .206             | 45.38                 | 46.79            |
| 55PC2131-12-* | 12                   | .0015                             | .0070                  | .0090       | .235             | .241         | .248             | 67.69                 | 69.54            |
| 55PC2131-10-* | 10                   | .0015                             | .0075                  | .0095       | .291             | .299         | .308             | 105.40                | 108.12           |

## 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, blue and yellow component wires; white jacket: 55PC2131-22-2/6/4-9

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

**Raychem**

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