

# SPECIFICATION CONTROL DRAWING

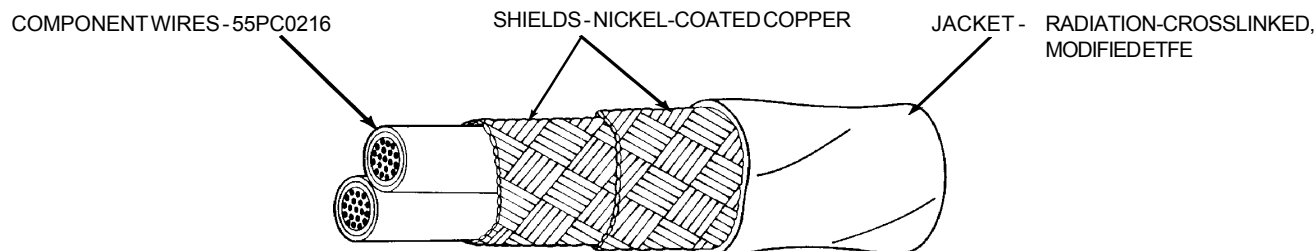
**55PC6178**

TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED, 600 VOLT

Date 04-05-01

Revision A

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



## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR SIZE (AWG) | INNER SHIELD SIZE (AWG) | OUTER SHIELD SIZE (AWG) | JACKET THICKNESS (in.) |             | DIAMETER (in.)  |              |                 | WEIGHT (lbs/1000 ft.) |                 |
|---------------|----------------------|-------------------------|-------------------------|------------------------|-------------|-----------------|--------------|-----------------|-----------------------|-----------------|
|               |                      |                         |                         | LOWERSPEC LIMIT        | TARGET WALL | LOWERSPEC LIMIT | TARGET VALUE | UPPERSPEC LIMIT | TARGET VALUE          | UPPERSPEC LIMIT |
| 55PC6178-24-* | 24                   | 38                      | 38                      | .0055                  | .0070       | .123            | .128         | .133            | 14.48                 | 15.03           |
| 55PC6178-22-* | 22                   | 38                      | 38                      | .0055                  | .0070       | .135            | .140         | .145            | 17.56                 | 18.14           |
| 55PC6178-20-* | 20                   | 38                      | 38                      | .0055                  | .0070       | .152            | .157         | .162            | 22.27                 | 22.92           |
| 55PC6178-18-* | 18                   | 38                      | 38                      | .0060                  | .0075       | .172            | .177         | .182            | 28.84                 | 29.66           |
| 55PC6178-16-* | 16                   | 38                      | 38                      | .0060                  | .0075       | .187            | .192         | .197            | 33.97                 | 34.86           |

## 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/in<sup>2</sup> (minimum)

JACKET FLAWS:

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

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

SHIELD COVERAGE: 85% (minimum) (each)

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 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: 55PC6178-22-2/6-9

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

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