

# SPECIFICATION CONTROL DRAWING

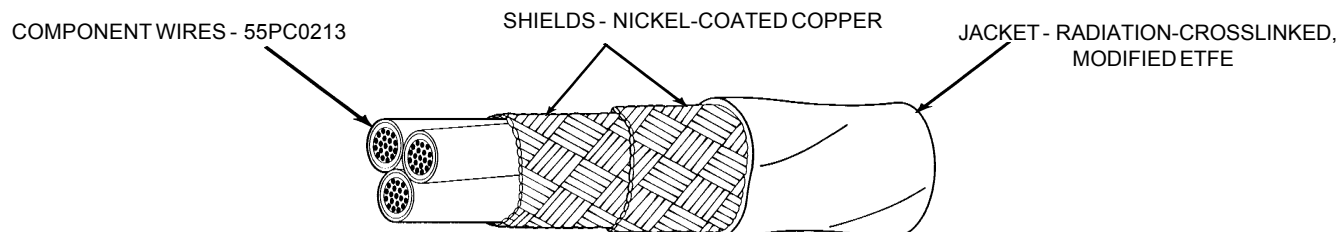
**55PC6173**

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

Date 01-24-01

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 |
| 55PC6173-24-*        | 24                   | 38                      | 38                      | .0060                  | .0075       | .131             | .136         | .141            | 18.19                   | 18.86           |
| 55PC6173-22-*        | 22                   | 38                      | 38                      | .0060                  | .0075       | .144             | .149         | .154            | 22.44                   | 23.16           |
| 55PC6173-20-*        | 20                   | 38                      | 38                      | .0060                  | .0080       | .164             | .169         | .174            | 29.16                   | 29.98           |
| 55PC6173-18-*        | 18                   | 38                      | 38                      | .0060                  | .0080       | .184             | .189         | .194            | 38.20                   | 39.21           |
| 55PC6173-16-*        | 16                   | 38                      | 38                      | .0060                  | .0080       | .200             | .205         | .210            | 45.43                   | 46.52           |
| 55PC6173-14-*        | 14                   | 38                      | 38                      | .0060                  | .0080       | .232             | .238         | .244            | 62.82                   | 64.19           |
| 55PC6173-12-*        | 12                   | 38                      | 38                      | .0065                  | .0085       | .274             | .280         | .286            | 88.60                   | 90.39           |
| 55PC6173-10-*        | 10                   | 36                      | 36                      | .0070                  | .0090       | .334             | .342         | .350            | 137.46                  | 140.22          |
| 55PC6173-8-*         | 8                    | 36                      | 34                      | .0070                  | .0090       | .477             | .488         | .499            | 239.60                  | 248.06          |

## 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 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: 55PC6173-22-2/6/4-9

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

**Raychem**

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