

# SPECIFICATION CONTROL DRAWING

55PC6128

TITLE

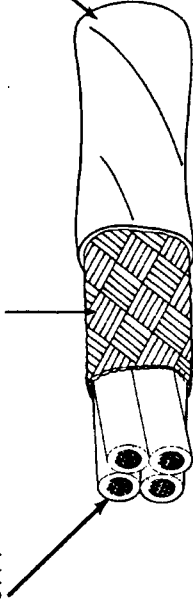
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Revision

Date 7-6-99

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

COMPONENT WIRES - 55PC0114 SHIELD - SILVER-COATED COPPER JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



## CONSTRUCTION DETAILS

| PART NUMBER   | CONDUCTOR SIZE (AWG) | SHIELD SIZE (AWG) | JACKET THICKNESS (in.) |                 | DIAMETER (in.)   |                 | WEIGHT (lbs/1000 ft.) |                 |
|---------------|----------------------|-------------------|------------------------|-----------------|------------------|-----------------|-----------------------|-----------------|
|               |                      |                   | LOWER SPEC LIMIT       | TARGET WALL     | LOWER SPEC LIMIT | TARGET VALUE    | TARGET VALUE          | UPPERSPEC LIMIT |
|               |                      |                   | UPPERSPEC LIMIT        | UPPERSPEC LIMIT | UPPERSPEC LIMIT  | UPPERSPEC LIMIT |                       |                 |
| 55PC6128-26-* | 26                   | 38                | .0060                  | .0075           | .098             | .111            | 10.86                 | 11.38           |
| 55PC6128-24-* | 24                   | 38                | .0060                  | .0080           | .111             | .125            | 14.03                 | 14.59           |
| 55PC6128-22-* | 22                   | 38                | .0060                  | .0080           | .123             | .140            | 18.57                 | 19.19           |
| 55PC6128-20-* | 20                   | 38                | .0060                  | .0080           | .142             | .161            | 25.67                 | 26.42           |
| 55PC6128-18-* | 18                   | 38                | .0065                  | .0085           | .163             | .186            | 36.10                 | 37.15           |
| 55PC6128-16-* | 16                   | 38                | .0065                  | .0085           | .181             | .205            | 44.44                 | 45.52           |

## 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

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 slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 22, red, blue, yellow and green component wires; white jacket.  
55PC6128-22-2/6/4/5-9

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

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HERIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.