

# SPECIFICATION CONTROL DRAWING

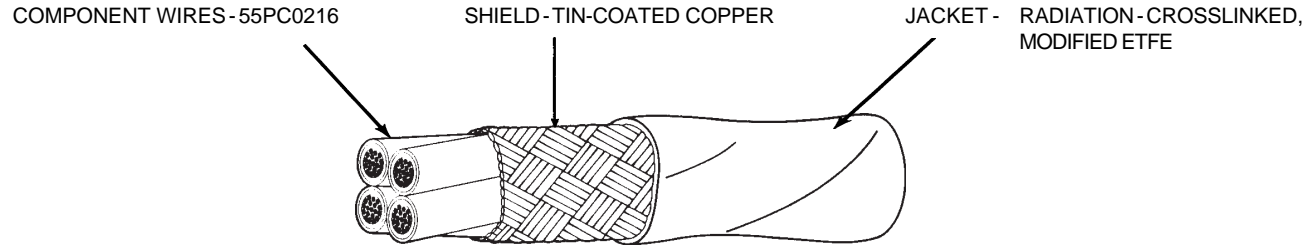
**55PC6242**

TITLE  
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

Date  
02-18-04

Revision

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



### CONSTRUCTION DETAILS

| PART NUMBER<br>1/ | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(in.) |                | DIAMETER<br>( in. ) |                 |                     | WEIGHT<br>( lbs/1000 ft. ) |                     |
|-------------------|----------------------------|-------------------------|---------------------------|----------------|---------------------|-----------------|---------------------|----------------------------|---------------------|
|                   |                            |                         | LOWER SPEC<br>LIMIT       | TARGET<br>WALL | LOWER SPEC<br>LIMIT | TARGET<br>VALUE | UPPER SPEC<br>LIMIT | TARGET<br>VALUE            | UPPER SPEC<br>LIMIT |
| 55PC6242-24-*     | 24                         | 38                      | .0060                     | .0080          | .119                | .135            | .150                | 15.35                      | 15.96               |
| 55PC6242-22-*     | 22                         | 38                      | .0060                     | .0080          | .132                | .150            | .168                | 20.07                      | 20.74               |
| 55PC6242-20-*     | 20                         | 38                      | .0065                     | .0085          | .150                | .173            | .195                | 27.62                      | 28.50               |
| 55PC6242-18-*     | 18                         | 38                      | .0065                     | .0085          | .173                | .197            | .221                | 38.16                      | 39.24               |
| 55PC6242-16-*     | 16                         | 38                      | .0065                     | .0085          | .188                | .217            | .245                | 46.71                      | 47.95               |

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms) at sea level  
 CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz  
 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)  
 Impulse Dielectric Test, 6.0 kV (peak)

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. Colors shown do not necessarily reflect the sequence of manufacturing.  
 1/ Example: AWG 22, black, brown, red and orange component wires; white jacket: 55PC6242-22-0/1/2/3-9

*Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.*

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL

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



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