

# SPECIFICATION CONTROL DRAWING

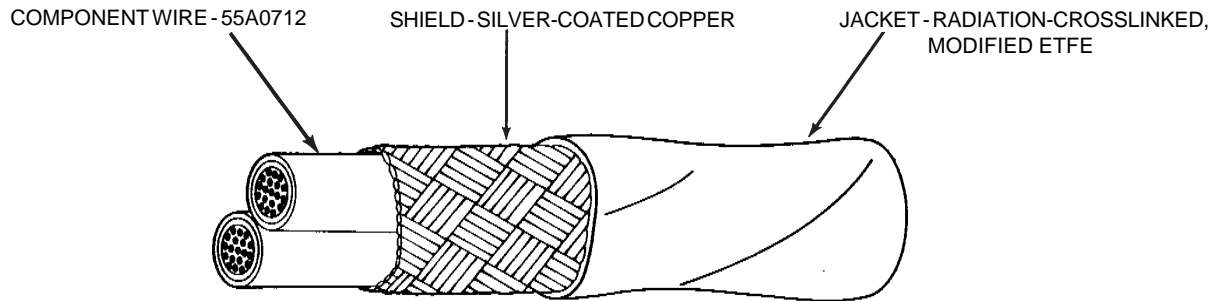
**55A1722**

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 1000 VOLT

Date  
10-25-03

Revision

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



CABLE CONSTRUCTION DETAILS

| PART NUMBER<br>1/ | CONDUCTOR<br>SIZE<br>(AWG) | SHIELD<br>SIZE<br>(AWG) | JACKET THICKNESS<br>(inches) |         | OUTSIDE DIAMETER<br>(inches) |         | MAXIMUM<br>WEIGHT<br>(lbs/1000 ft.) |
|-------------------|----------------------------|-------------------------|------------------------------|---------|------------------------------|---------|-------------------------------------|
|                   |                            |                         | MINIMUM                      | NOMINAL | NOMINAL                      | MAXIMUM |                                     |
| 55A1722-24-*      | 24                         | 38                      | .006                         | .008    | .145                         | .152    | 14.9                                |
| 55A1722-22-*      | 22                         | 38                      | .006                         | .008    | .157                         | .165    | 17.9                                |
| 55A1722-20-*      | 20                         | 38                      | .006                         | .008    | .174                         | .183    | 22.4                                |
| 55A1722-18-*      | 18                         | 38                      | .006                         | .008    | .194                         | .205    | 29.0                                |
| 55A1722-16-*      | 16                         | 38                      | .006                         | .008    | .208                         | .219    | 34.0                                |
| 55A1722-14-*      | 14                         | 38                      | .007                         | .009    | .241                         | .253    | 46.9                                |
| 55A1722-12-*      | 12                         | 38                      | .007                         | .009    | .275                         | .289    | 63.9                                |
| 55A1722-10-*      | 10                         | 38                      | .008                         | .010    | .325                         | .341    | 93.3                                |

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature  
VOLTAGE RATING: 1000 volts (rms) at sea level  
ACCELERATED AGING: 300 ± 3°C for 7 hours  
BLOCKING: 200 ± 3°C for 6 hours  
DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz  
FLAMMABILITY: Procedure 1,

3 seconds (maximum); 3 in. (maximum);  
no flaming of facial tissue

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)

LIFE CYCLE: 230 ± 3°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

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.

1/ Example: AWG 20, brown and red component wire;  
white jacket: 55A1722-20-1/2-9

NOTE: Nominal values are for information only.  
Nominal values are not requirements.

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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