

# SPECIFICATION CONTROL DRAWING

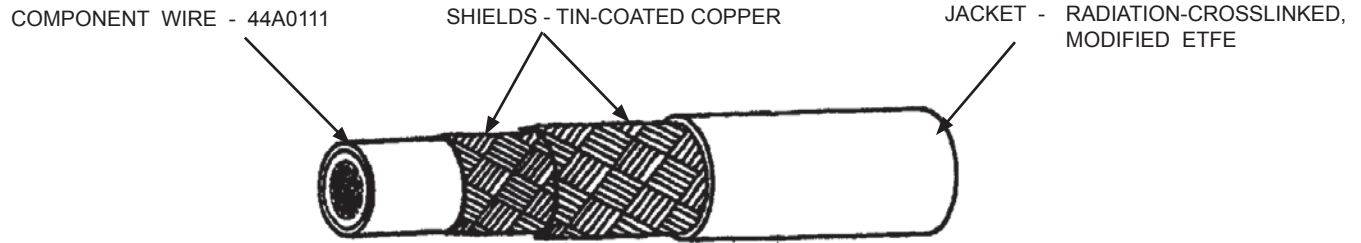
**44B9514**

TITLE ONE CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT

Date 5-24-07

Revision B

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44B9514-22-*	22	38	38	.005	.010	.097	.102	11.5
44B9514-20-*	20	38	38	.005	.010	.105	.110	14.0

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINK VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,  
Conductor to shield

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, 1500 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

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 dash separating the component wire color from the jacket color.

1/ Example: AWG 20, white component wire; white jacket;  
44B9514-20-9-9

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

This cable shall meet all constructional requirements of M27500 (AWGML1V23)

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.						
Page 1 of 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">RAYCHEM is a trademark of Tyco Electronics Corporation.</td> <td rowspan="3" style="text-align: center; vertical-align: middle;"> </td> <td rowspan="3" style="font-size: small;">                     Raychem Wire &amp; Cable                      501 Oakeside Avenue                      Redwood City, CA 94063-3800                      Phone: 1-800-227-8816                      Fax: 1-650-361-6297                 </td> </tr> <tr> <td style="text-align: center;">DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL</td> </tr> <tr> <td style="text-align: center;">THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.</td> </tr> </table>	RAYCHEM is a trademark of Tyco Electronics Corporation.		Raychem Wire & Cable 501 Oakeside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	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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