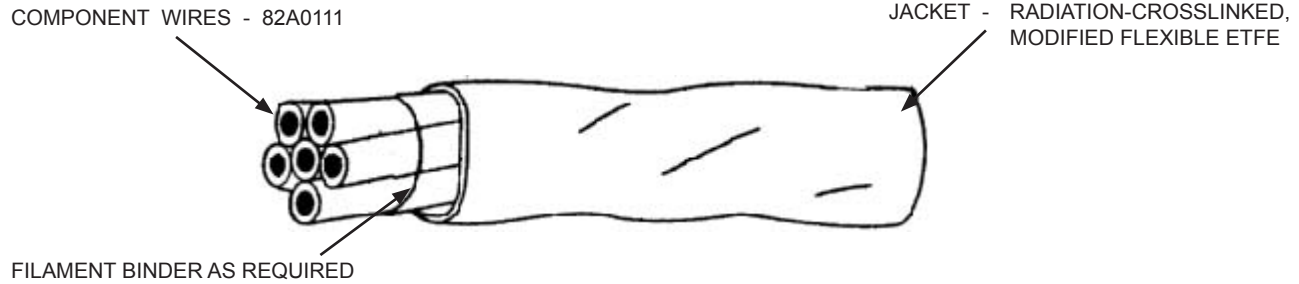


# SPECIFICATION CONTROL DRAWING

**82A4161**

TITLE SIX CONDUCTOR CABLE, JACKETED, GENERAL PURPOSE, FLEXIBLE, 600 VOLT	Date 12-21-10	Revision A
This specification sheet forms a part of the latest issue of Raychem Specification 80.		



CABLE CONSTRUCTION DETAILS						
PART NUMBER <sup>1/</sup>	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82A4161-26-*	26	.006	.009	.117	.123	11.5
82A4161-24-*	24	.006	.009	.129	.135	16.1
82A4161-22-*	22	.007	.010	.149	.156	22.0
82A4161-20-*	20	.007	.011	.181	.190	31.4
82A4161-18-*	18	.009	.013	.218	.229	49.1
82A4161-16-*	16	.009	.014	.265	.278	73.1
82A4161-14-*	14	.011	.017	.331	.348	117.
82A4161-12-*	12	.013	.020	.403	.423	175.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms) at sea level  
 CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz  
 JACKET COLOR: White preferred  
 JACKET ELONGATION AND TENSILE STRENGTH:  
 Elongation, 100% (minimum)  
 Tensile Strength, 3000 lbf/in<sup>2</sup> (minimum)

SECANT MODULUS (Test per ASTM D 882):  
 4.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (maximum),  
 2% strain, 2 inch jaw separation, 0.2 inch/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. Colors shown do not necessarily reflect the sequence of manufacturing.

<sup>1/</sup> Example: AWG 20, black, brown, red, orange, yellow and green component wires; white jacket: 82A4161-20-0/1/2/3/4/5-9

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.			
<sup>1/</sup> 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	The TE logo, Tyco Electronics and Raychem are trademarks.		
	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.		
		Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	

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