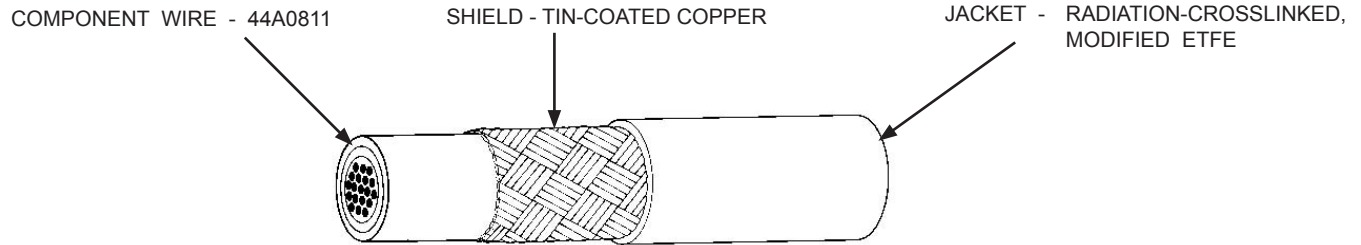


# SPECIFICATION CONTROL DRAWING

**44B1811**

TITLE ONE CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT	Date 3-3-07	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)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44B1811-24-*	24	38	.006	.008	.087	.093	7.5
44B1811-22-*	22	38	.006	.008	.095	.103	9.3
44B1811-20-*	20	38	.006	.008	.103	.111	11.5
44B1811-18-*	18	38	.006	.008	.113	.121	14.8
44B1811-16-*	16	38	.006	.008	.122	.131	17.4
44B1811-14-*	14	38	.006	.008	.141	.150	23.8
44B1811-12-*	12	38	.006	.008	.159	.168	32.1
44B1811-10-*	10	38	.006	.008	.188	.202	47.3
44B1811- 8-*	8	38	.007	.009	.249	.266	80.2
44B1811- 6-*	6	36	.007	.009	.303	.321	124.
44B1811- 4-*	4	36	.008	.010	.361	.382	184.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING:** 150°C  
 Maximum continuous conductor temperature  
**VOLTAGE RATING:** 600 volts (rms) at sea level  
**ACCELERATED AGING:** 300 ± 3°C for 7 hours  
**BLOCKING:** 150 ± 3°C for 6 hours  
**DIELECTRIC WITHSTAND:** 2500 volts (rms), 60 Hz, 1 minute  
**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, 1.0 kV (rms)  
 Impulse Dielectric Test, 6.0 kV (peak)

**LIFE CYCLE:** 200 ± 3°C for 168 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 a color code designator with a dash separating the component wire color from the jacket color.  
 1/ Example: AWG 20, white component wire; white jacket: 44B1811-20-9-9

**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.		
Page 1 of 1	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.	 <b>Raychem</b> Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297