## SPECIFICATION CONTROL DRAWING TITLE EIGHT CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT This specification sheet forms a part of the latest issue of Raychem Specification 44.

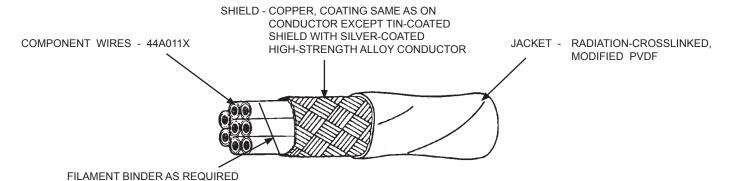


TABLE I. CABLE CONSTRUCTION DETAILS										
PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT			
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	(lbs/1000 ft.)			
44A118X-26-*	26	36	.006	.008	.148	.167	22.5			
44A118X-24-*	24	36	.007	.009	.169	.192	30.4			
44A118X-22-*	22	36	.007	.009	.192	.219	40.6			
44A118X-20-*	20	36	.007	.009	.218	.249	55.2			
44A118X-18-*	18	36	.007	.009	.250	.287	77.7			
44A118X-16-*	16	36	.008	.010	.275	.315	96.1			
44A118X-14-*	14	36	.008	.010	.330	.379	142.			
44A118X-12-*	12	36	.010	.012	.396	.455	214.			

TABLE II. CABLE PERFORMANCE DETAILS								
PART NUMBER 1/	BEND TESTING							
	MANDREL DIAMETE (inch) (±3%)	ΞR	WEIGHT (lb) (±3%)					
	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND				
44A118X-26-*	6.00	6.00	1.00	6.00				
44A118X-24-*	6.00	6.00	1.50	6.00				
44A118X-22-*	6.00	6.00	1.50	12.0				
44A118X-20-*	6.00	6.00	1.50	12.0				
44A118X-18-*	6.00	6.00	2.00	12.0				
44A118X-16-*	10.0	10.0	2.00	12.0				
44A118X-14-*	10.0	10.0	4.00	36.0				
44A118X-12-*	18.0	18.0	4.00	36.0				

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 2	The TE logo, Tyco Electronics and Raychem are trademarks.		Raychem Wire & Cable			
	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.		501 Oakside Avenue Redwood City, CA 94063-3800			
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	Electronics	Phone: 1-800-227-8816 Fax: 1-650-361-6297			

Tyco Electronics

## SPECIFICATION CONTROL DRAWING

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Revision D SCD

44A118X

## 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 6 hours

BLOCKING: 150 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 2500 volts (rms), 60 Hz, 1 minute

FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue IMMERSION: Diameter increase 5% (maximum), no cracking, no dielectric breakdown

JACKET COLOR: White preferred

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile Strength, 4000 lbf/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1.5 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 (Post Environmental): 1000 volts (rms), 60 Hz, 1 minute

## PART NUMBER:

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designator as follows:

- 1 tin-coated copper
- 2 silver-coated copper
- 3 nickel-coated copper
- 4 silver-coated high-strength copper alloy (AWG's 26 16 only)
- 6 nickel-coated high-strength copper alloy (AWG's 26 20 only)

The "\*" in the part numbers on page 1 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.

1/ Example: AWG 20, tin-coated copper wires, black, brown, red, orange, yellow, green, blue and violet component wires; white jacket: 44A1181-20-0/1/2/3/4/5/6/7-9

1/ See footer section on page 1