SPECIFICATION CONTROL DRAWING

44A413X

THREE CONDUCTOR CABLE, JACKETED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

05-08-04

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This specification sheet forms a part of the latest issue of Raychem Specification 44

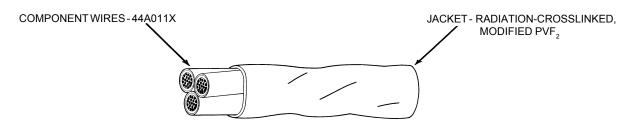


TABLE I. CABLE CONSTRUCTION DETAILS								
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT		
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	(lb/1000 ft)		
44A413X-26-*	26	.005	.007	.087	.092	5.9		
44A413X-24-*	24	.005	.007	.100	.105	8.4		
44A413X-22-*	22	.005	.007	.116	.122	11.9		
44A413X-20-*	20	.005	.007	.133	.139	17.0		
44A413X-18-*	18	.005	.007	.154	.161	25.1		
44A413X-16-*	16	.005	.007	.170	.177	31.5		
44A413X-14-*	14	.005	.007	.206	.214	48.2		
44A413X-12-*	12	.006	.008	.249	.257	74.6		

TABLE II. CABLE PERFORMANCE DETAILS								
	BEND TESTING							
PART NUMBER 1/	MANDREL DIA (inch) (±		WEIGHT (lb) (± 3%)					
	ACCELERATED AGING IMMERSION AND LIFE CYCLE	COLD BEND	ACCELERATED AGING IMMERSION AND LIFE CYCLE	COLD BEND				
44A413X-26-*	3.00	3.00	.375	2.25				
44A413X-24-*	3.00	3.00	.563	2.25				
44A413X-22-*	3.00	3.00	.563	4.50				
44A413X-20-*	6.00	6.00	.563	4.50				
44A413X-18-*	6.00	6.00	.750	4.50				
44A413X-16-*	6.00	6.00	.750	4.50				
44A413X-14-*	6.00	6.00	1.50	13.5				
44A413X-12-*	6.00	6.00	1.50	13.5				

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.

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.

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DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C;

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: 225 ± 2°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.

JACKET COLOR: White preferred

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 200% (minimum)

Tensile strength, 4000 lbf/in² (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

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

PARTNUMBER

The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designators 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: 20 Awg, tin-coated copper wires, black, brown and red component wires; white jacket: 44A4131-20-0/1/2-9

1/ See footer section on page 1