SPECIFICATION CONTROL DRAWING

44AM414X

TITI E

FOUR CONDUCTOR CABLE, JACKETED, GENERAL PURPOSE, 600 VOLT

Date 10-20-06

Revision

С

This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable.

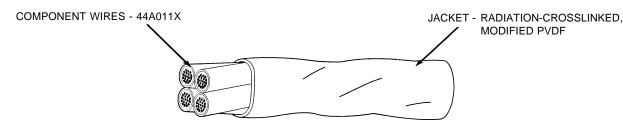


TABLE I. CABLE CONSTRUCTION DETAILS									
PART NUMBER	CONDUCTOR SIZE	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT			
<u>1</u> /	(AWG)	MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	(lb/1000 ft)			
44AM414X-26-*	26	.005	.010	.098	.115	7.9			
44AM414X-24-*	24	.005	.010	.113	.132	11.1			
44AM414X-22-*	22	.005	.010	.130	.153	15.6			
44AM414X-20-*	20	.005	.010	.149	.176	22.1			
44AM414X-18-*	18	.006	.012	.175	.207	33.0			
44AM414X-16-*	16	.006	.012	.192	.227	41.2			
44AM414X-14-*	14	.007	.014	.235	.278	63.5			
44AM414X-12-*	12	.007	.014	.281	.333	96.7			

TABLE II. CABLE PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER <u>1</u> /	MANDREL DIAMETER (inch) (± 3%)	₹	WEIGHT (lb) (± 3%)				
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND			
44AM414X-26-*	3.00	3.00	.500	3.00			
44AM414X-24-*	3.00	3.00	.750	3.00			
44AM414X-22-*	6.00	6.00	.750	6.00			
44AM414X-20-*	6.00	6.00	.750	6.00			
44AM414X-18-*	6.00	6.00	1.00	6.00			
44AM414X-16-*	6.00	6.00	1.00	6.00			
44AM414X-14-*	6.00	6.00	2.00	18.0			
44AM414X-12-*	10.0	10.0	2.00	18.0			

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

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

Electronics

Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297

С

44AM414X

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C;

SPECIFICATION CONTROL DRAWING

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: $150 \pm 3^{\circ}$ C for 6 hours

CROSSLINK VERIFICATION: 200 ± 5°C for 6 hours
DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,
15 seconds (minimum), 30 seconds (maximum)

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/in² (minimum)

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

PART NUMBER

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, red and orange component wires;

white jacket: 44AM4141-20-0/1/2/3-9

1/ See footer section on page 1