SPECIFICATION CONTROL DRAWING

44AM412X

TITLE		Date	Revision
TWO CONDUCTOR CABLE, JACKETED, GENERAL PURPOSE, 600 VOLT		10-15-06	B

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

COMPONENT WIRES - 44A011X

JACKET - RADIATION-CROSSLINKED, MODIFIED PVDF

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AM412X-26-*	26	.005	.010	.084	.090	4.7
44AM412X-24-*	24	.005	.010	.096	.102	6.4
44AM412X-22-*	22	.005	.010	.110	.117	8.7
44AM412X-20-*	20	.005	.010	.126	.133	12.1
44AM412X-18-*	18	.005	.010	.146	.153	17.5
44AM412X-16-*	16	.005	.010	.160	.168	21.7
44AM412X-14-*	14	.006	.012	.196	.204	33.4
44AM412X-12-*	12	.007	.014	.234	.243	51.0

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND
44AM412X-26-*	3.00	3.00	.250	1.50
44AM412X-24-*	3.00	3.00	.375	1.50
44AM412X-22-*	3.00	3.00	.375	3.00
44AM412X-20-*	6.00	6.00	.375	3.00
44AM412X-18-*	6.00	6.00	.500	3.00
44AM412X-16-*	6.00	6.00	.500	3.00
44AM412X-14-*	6.00	6.00	1.00	9.00
44AM412X-12-*	6.00	6.00	1.00	9.00

NOTE: Nominal values are for information only.
Nominal values are not requirements.

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.

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.

tyco Electronics

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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
BLOCKING: 150 ± 3°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/in^2 (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.
1/ Example: 20 Awg, tin-coated copper wires, black and brown component wires; white jacket:
        44AM4121-20-0/1-9

1/ See footer section on page 1

Mouser Electronics

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