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SPECIFICATION CONTROL DRAWING

44A111X

TITLE	Date	Revision
ONE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT	4-1-11	G

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

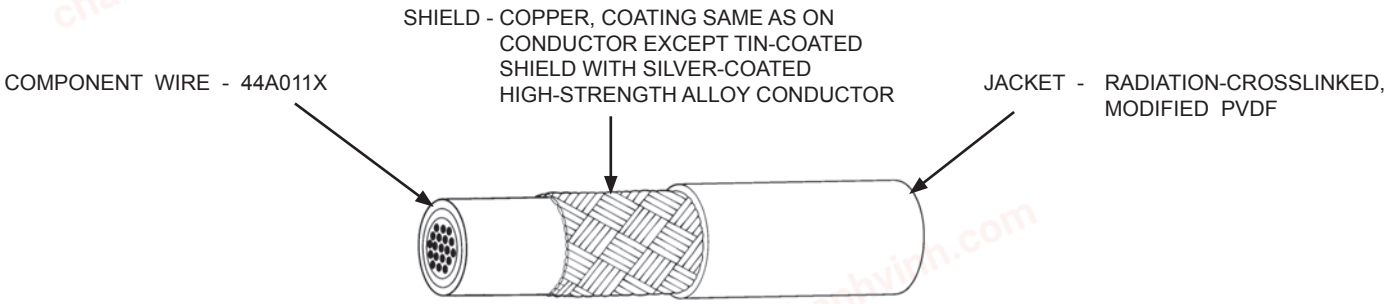


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A111X-26-*	26	38	.005	.007	.065	.070	4.6
44A111X-24-*	24	38	.005	.007	.072	.077	5.8
44A111X-22-*	22	38	.005	.007	.079	.084	7.2
44A111X-20-*	20	38	.006	.008	.089	.094	9.9
44A111X-18-*	18	36	.006	.008	.103	.108	13.9
44A111X-16-*	16	36	.006	.008	.110	.115	16.5
44A111X-14-*	14	36	.006	.008	.127	.132	22.9
44A111X-12-*	12	36	.006	.008	.146	.151	32.1
44A111X-10-*	10	36	.006	.008	.166	.179	44.3

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (±3%)		WEIGHT (lb) (±3%)	
	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND
44A111X-26-*	3.00	3.00	.125	.750
44A111X-24-*	3.00	3.00	.188	.750
44A111X-22-*	3.00	3.00	.188	1.50
44A111X-20-*	3.00	3.00	.188	1.50
44A111X-18-*	3.00	3.00	.250	1.50
44A111X-16-*	3.00	3.00	.250	1.50
44A111X-14-*	6.00	6.00	.500	4.50
44A111X-12-*	6.00	6.00	.500	4.50
44A111X-10-*	6.00	6.00	.500	4.50

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 Corporation 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.

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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.

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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/in² (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 dash separating the component wire color from the jacket color.
1/ Example: AWG 20, tin-coated copper wire, white component wire; white jacket:
44A1111-20-9-9

1/ See footer section on page 1