

SPECIFICATION CONTROL DRAWING

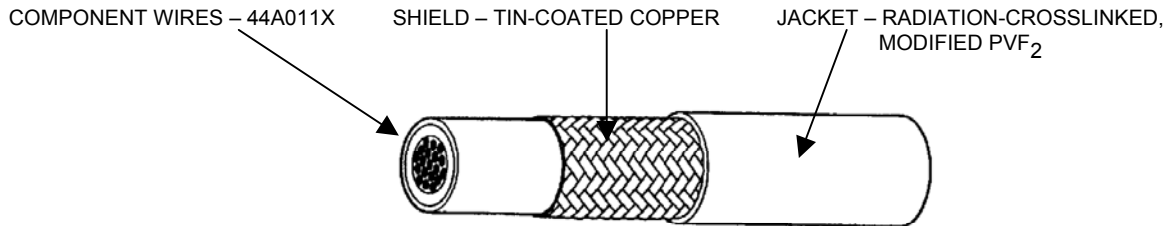
44A211X

Title ONE CONDUCTOR, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, FLAT BRAID SHIELDED, JACKETED, LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 03-18-04

Revision C

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



CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (in.)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A211X-26-*	26	.0015 X .013	.005	.007	.055	.060	3.4
44A211X-24-*	24	.0015 X .013	.005	.007	.061	.066	4.2
44A211X-22-*	22	.0015 X .013	.005	.007	.068	.073	5.6
44A211X-20-*	20	.0015 X .013	.005	.007	.076	.081	7.6
44A211X-18-*	18	.0015 X .013	.006	.008	.088	.093	10.6
44A211X-16-*	16	.0015 X .013	.006	.008	.095	.100	12.7
44A211X-14-*	14	.0015 X .013	.006	.008	.112	.117	19.2
44A211X-12-*	12	.0015 X .013	.006	.008	.131	.136	27.2

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
44A211X-26-*	3.00	3.00	.125	.750
44A211X-24-*	3.00	3.00	.185	.750
44A211X-22-*	3.00	3.00	.185	1.50
44A211X-20-*	3.00	3.00	.185	1.50
44A211X-18-*	3.00	3.00	.250	1.50
44A211X-16-*	3.00	3.00	.250	1.50
44A211X-14-*	3.00	3.00	.500	4.50
44A211X-12-*	6.00	6.00	.500	4.50

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
 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: 90% (minimum)
 VOLTAGE WITHSTAND TEST (Post Environmental) :
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "X" in the part numbers above 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

The "***" in the part numbers above shall be replaced by a color code designator with a slash separating the component wire color from the jacket color.

1/ Example: AWG 20, tin-coated copper; white component wire; white jacket: 44A2111-20-9-9

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.

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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