

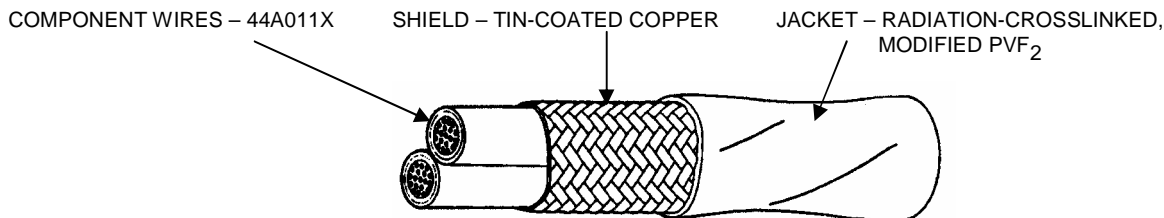
# SPECIFICATION CONTROL DRAWING

**44A212X**Title TWO CONDUCTOR, FLAT BRAID SHIELDED, JACKETED,  
LIGHTWEIGHT, GENERAL PURPOSE, 600 VOLT

Date 5-12-05

Revision G

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	
44A212X-26-*	26	.0015 X .013	.006	.008	.091	.096	6.4
44A212X-24-*	24	.0015 X .013	.006	.008	.103	.108	8.1
44A212X-22-*	22	.0015 X .013	.006	.008	.117	.122	10.7
44A212X-20-*	20	.0015 X .013	.006	.008	.133	.138	14.6
44A212X-18-*	18	.0015 X .013	.006	.008	.153	.158	20.4
44A212X-16-*	16	.0015 X .013	.007	.009	.169	.174	25.2
44A212X-14-*	14	.0015 X .013	.007	.009	.203	.214	36.9
44A212X-12-*	12	.0015 X .013	.007	.009	.241	.254	54.1

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	
44A212X-26-*	3.00	3.00	.250		1.50
44A212X-24-*	3.00	3.00	.375		1.50
44A212X-22-*	3.00	3.00	.375		3.00
44A212X-20-*	6.00	6.00	.375		3.00
44A212X-18-*	6.00	6.00	.500		3.00
44A212X-16-*	6.00	6.00	.500		3.00
44A212X-14-*	6.00	6.00	1.00		9.00
44A212X-12-*	6.00	6.00	1.00		9.00

## 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/in<sup>2</sup> (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; black and white component wires; white jacket: 44A2121-20-0/9-9

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.

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