

# SPECIFICATION CONTROL DRAWING

**44A113X**

TITLE CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, THREE CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT, GENERAL PURPOSE

Date 28-Mar-11

Revision F1

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-W-81044 as applicable

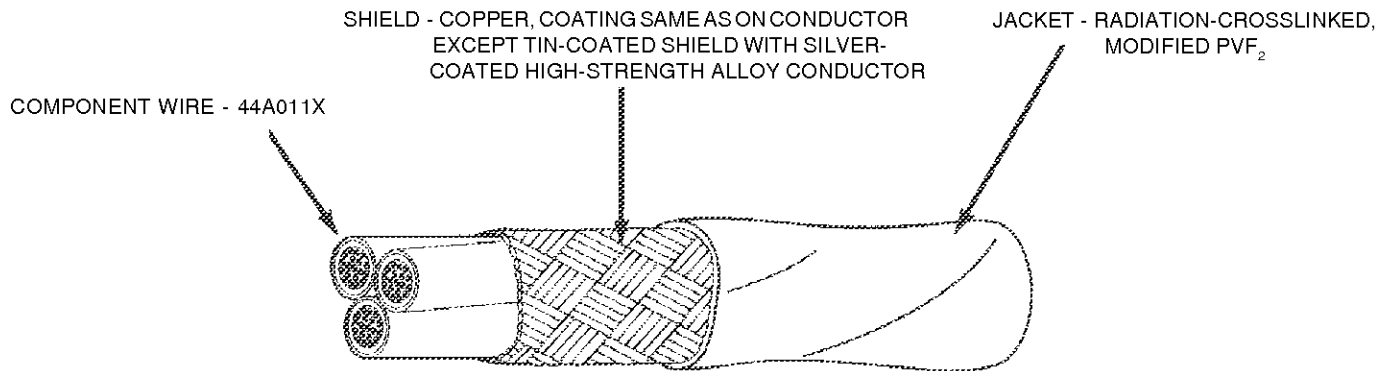


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44A113X-26*	26	36	.006	.008	.111	.116	11.1
44A113X-24*	24	36	.006	.008	.124	.129	14.4
44A113X-22*	22	36	.006	.008	.140	.145	18.8
44A113X-20*	20	36	.006	.008	.157	.163	25.0
44A113X-18*	18	36	.007	.009	.180	.185	34.4
44A113X-16*	16	36	.007	.009	.196	.201	41.1
44A113X-14*	14	36	.007	.009	.232	.239	59.6
44A113X-12*	12	36	.008	.010	.275	.282	86.8

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	LIFE CYCLE, IMMERSION AND ACCELERATED AGING		LIFE CYCLE, IMMERSION AND ACCELERATED AGING	
	COLD BEND		COLD BEND	
44A113X-26*	3.00		.375	
44A113X-24*	3.00		.563	
44A113X-22*	6.00		.563	
44A113X-20*	6.00		.563	
44A113X-18*	6.00		.750	
44A113X-16*	6.00		.750	
44A113X-14*	6.00		1.50	
44A113X-12*	10.0		1.50	

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.  
**TE Connectivity** 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.

## 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: 85% (minimum)

VOLTAGE WITHSTAND TEST (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
- 6 nickel-coated high strength copper alloy

The "\*\*\*" in the part numbers on page 1 shall be replaced by color code designators with a slash separating component wire colors and a dash separating the component wire color from the jacket color.

Components are not necessarily shown in sequence of manufacturing.

1/ Example: AWG 20, tin-coated copper, black, brown and red component wires;  
white jacket: 44A1131-20-0/1/2-9

1/ see footer section on page 1

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