SPECIFICATION CONTROL DRAWING

44A112X

TWO CONDUCTOR CABLE, SHIELDED, JACKETED GENERAL PURPOSE, 600 VOLT

28MAR11

Revision G1

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

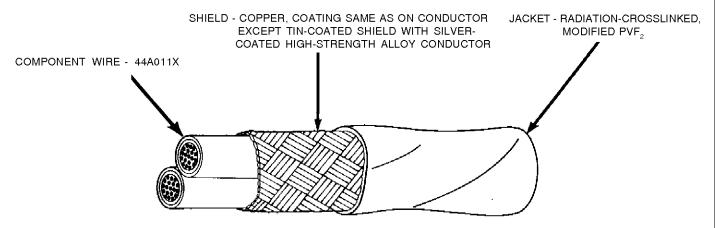


TABLE I. CABLE CONSTRUCTION DETAILS									
PART NUMBER <u>1</u> /	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)		
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	(12) 1000 11)		
44A112X-26-*	26	38	.006	.008	.102	.107	8.1		
44A112X-24-*	24	36	.006	.008	.118	.123	11.3		
44A112X-22-*	22	36	.006	.008	.132	.137	14.5		
44A112X-20-*	20	36	.006	.008	.148	.153	18.8		
44A112X-18-*	18	36	.007	.009	.170	.175	25.7		
44A112X-16-*	16	36	.007	.009	.184	.189	30.2		
44A112X-14-*	14	36	.007	.009	.218	.225	43.2		
44A112X-12-*	12	36	.007	.009	.256	.265	61.5		
44A112X-10-*	10	36	.008	.010	.299	.314	86.3		

TABLE II. CABLE PERFORMANCE DETAILS								
	BEND TESTING							
PART NUMBER	MANDREL DIAMETEI (inch) (± 3%)	٦	WEIGHT (lb) (± 3%)					
1/	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFECYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND				
44A112X-26-*	3.00	3.00	.250	1.50				
44A112X-24-*	3.00	3.00	.375	1.50				
44A112X-22-*	6.00	6.00	.375	3.00				
44A112X-20-*	6.00	6.00	.375	3.00				
44A112X-18-*	6.00	6.00	.500	3.00				
44A112X-16-*	6.00	6.00	500	3.00				
44A112X-14-*	6.00	6.00	1.00	9.00				
44A112X-12-*	10.0	10.0	1.00	9.00				
44A112X-10-*	10.0	10.0	1.00	9.00				

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

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

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 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 (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 component wire colors and a dash separating the component wire color from the jacket color.

1/ Example: AWG 20, tin-coated copper, black and white component wires; white jacket: 44A1121-20-0/9-9

1/ see footer section on page 1