

SPECIFICATION CONTROL DRAWING

44/244X

TITLE FOUR CONDUCTOR, FLAT BRAID SHIELDED, JACKETED, OUTER SPACE, 600 VOLT

Date 11-30-06

Revision H

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

COMPONENT WIRES - 44/041X

SHIELD - TIN-COATED COPPER

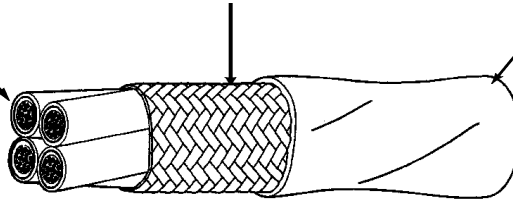
JACKET - RADIATION-CROSSLINKED,
MODIFIED PVDF

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004 inch)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44/244X-26-*	26	.0015	.006	.008	.103	.119	9.7
44/244X-24-*	24	.0015	.006	.008	.117	.137	13.3
44/244X-22-*	22	.0015	.006	.008	.134	.157	18.2
44/244X-20-*	20	.0015	.006	.008	.154	.180	25.3
44/244X-18-*	18	.0015	.007	.009	.180	.211	37.3
44/244X-16-*	16	.0015	.007	.009	.197	.231	45.1
44/244X-14-*	14	.0015	.007	.009	.233	.275	67.4
44/244X-12-*	12	.0015	.008	.010	.288	.340	107.

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	RADIATION RESISTANCE	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND	LIFE CYCLE, IMMERSION AND ACCELERATED AGING	COLD BEND
44/244X-26-*	2.75	3.00	3.00	.250	3.00
44/244X-24-*	3.25	3.00	3.00	.375	3.00
44/244X-22-*	3.75	6.00	6.00	.375	6.00
44/244X-20-*	4.25	6.00	6.00	.375	6.00
44/244X-18-*	5.00	6.00	6.00	.500	6.00
44/244X-16-*	5.50	6.00	6.00	.500	6.00
44/244X-14-*	6.50	6.00	6.00	1.00	18.0
44/244X-12-*	8.00	10.0	10.0	1.00	18.0

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 135°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

ACCELERATED AGING: 225 ± 3°C for 6 hours

BLOCKING: 150 ± 2°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 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 120 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

RADIATION RESISTANCE: 500 megarads

SHIELD COVERAGE: 90% (minimum)

VACUUM STABILITY: Total Mass Loss, 1.00% (maximum)

Volatile Condensable Material, 0.10% (maximum)

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 (AWG's 26-20 only)

The "*" in the part numbers above shall be replaced by color code
designators with a slash separating the component wire colors and
a dash separating the component wire colors from the jacket color.
Colors shown do not necessarily reflect the sequence of
manufacturing.1/ Example: AWG 20, tin-coated copper wires; black, brown, red and
orange component wires; white jacket:

44/2441-20-0/1/2/3-9

*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.**Raychem** Wire & Cable
501 Oakside Avenue
Redwood City, CA 94063-3800
Phone: 1-800-227-8816
Fax: 1-650-361-6297

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