SPECIFICATION CONTROL DRAWING

44/443X

TITLE	Date	Revision
THREE CONDUCTOR CABLE, JACKETED, OUTER SPACE, 600 VOLT	04-16-04	D

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

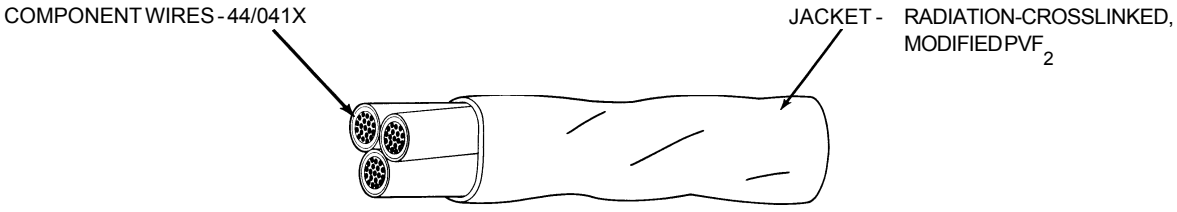

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44/443X-26-*	26	.006	.008	.087	.092	5.6
44/443X-24-*	24	.006	.008	.100	.105	8.1
44/443X-22-*	22	.006	.008	.115	.121	11.6
44/443X-20-*	20	.006	.008	.133	.139	16.7
44/443X-18-*	18	.006	.008	.154	.161	24.7
44/443X-16-*	16	.007	.009	.171	.178	30.6
44/443X-14-*	14	.007	.009	.204	.212	46.3
44/443X-12-*	12	.007	.009	.251	.261	72.1

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
44/443X-26-*	2.50	3.00	3.00	.185	2.25
44/443X-24-*	2.75	3.00	3.00	.285	2.25
44/443X-22-*	3.25	3.00	3.00	.285	4.50
44/443X-20-*	3.75	6.00	6.00	.285	4.50
44/443X-18-*	4.25	6.00	6.00	.375	4.50
44/443X-16-*	4.50	6.00	6.00	.375	4.50
44/443X-14-*	5.50	6.00	6.00	.750	14.0
44/443X-12-*	7.00	10.0	10.0	.750	14.0

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/in^2 (minimum)
LIFE CYCLE: 200 ± 3°C for 120 hours
LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
RADIATION RESISTANCE: 500 megarads

VACUUM STABILITY: Total Mass Loss, 1.0% (maximum)
Volatile Condensable Material, 0.1% (maximum)

PART NUMBER:
The " X " in the part numbers above shall be replaced with a 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)
6 = Nickel 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 22, Tin-coated copper, black, brown and red component wires; white jacket: 44/4431-22-0/1/2-9

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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