

SPECIFICATION CONTROL DRAWING

44/143X

TITLE	THREE CONDUCTOR CABLE, SHIELDED, JACKETED, LIGHTWEIGHT, OUTER SPACE, 600 VOLT	Date	04-02-04	Revision	E
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This specification sheet forms a part of the latest issue of Raychem Specification 44.

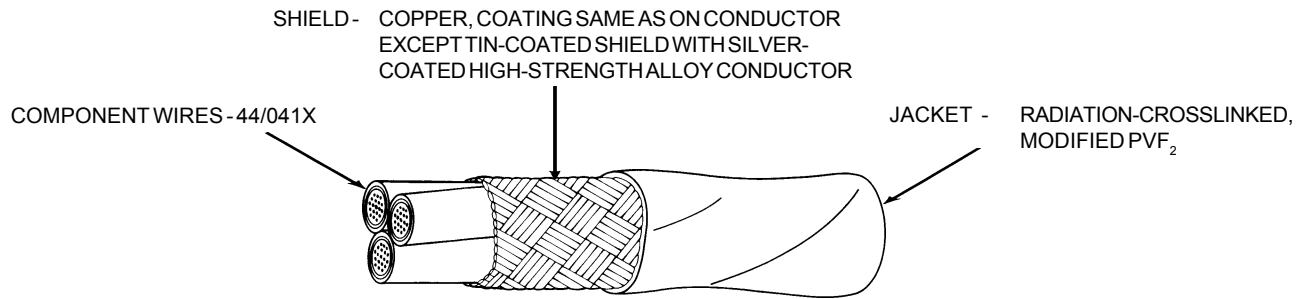


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44/143X-26-*	26	38	.006	.008	.106	.112	9.8
44/143X-24-*	24	38	.006	.008	.119	.125	12.9
44/143X-22-*	22	38	.006	.008	.134	.140	17.0
44/143X-20-*	20	38	.006	.008	.152	.158	23.0
44/143X-18-*	18	38	.007	.009	.175	.182	32.4
44/143X-16-*	16	36	.007	.009	.194	.201	40.6
44/143X-14-*	14	36	.007	.009	.227	.235	58.3
44/143X-12-*	12	36	.008	.010	.274	.284	87.7

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING				
	MANDREL DIAMETER (inch) (± 3%)			WEIGHT (lb) (± 3%)	
	RADIATION RESISTANCE	ACCELERATED AGING IMMERSION AND LIFE CYCLE	COLD BEND	ACCELERATED AGING IMMERSION AND LIFE CYCLE	COLD BEND
44/143X-26-*	3.00	3.00	3.00	.188	2.25
44/143X-24-*	3.25	3.00	3.00	.278	2.25
44/143X-22-*	3.75	6.00	6.00	.278	4.50
44/143X-20-*	4.25	6.00	6.00	.278	4.50
44/143X-18-*	5.00	6.00	6.00	.375	4.50
44/143X-16-*	5.50	6.00	6.00	.375	4.50
44/143X-14-*	6.00	6.00	6.00	.750	14.0
44/143X-12-*	8.00	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/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: 85% (minimum)

VACUUM STABILITY: Total Mass Loss, 1.0% (maximum),
 Volatile Condensable Material, 0.1% (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 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 26 - 20 only)
 6 = Nickel-coated high strength copper alloy (AWG 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 conductor, black, brown and red
 component wires; white jacket; 44/1431-20-0/1/2-9

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.



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