

# SPECIFICATION CONTROL DRAWING

44/9760

TITLE TWO CONDUCTOR CABLE, FLAT BRAID SHIELDED, JACKETED, OUTER SPACE, 600 VOLT

Date 3-29-07

Revision A

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

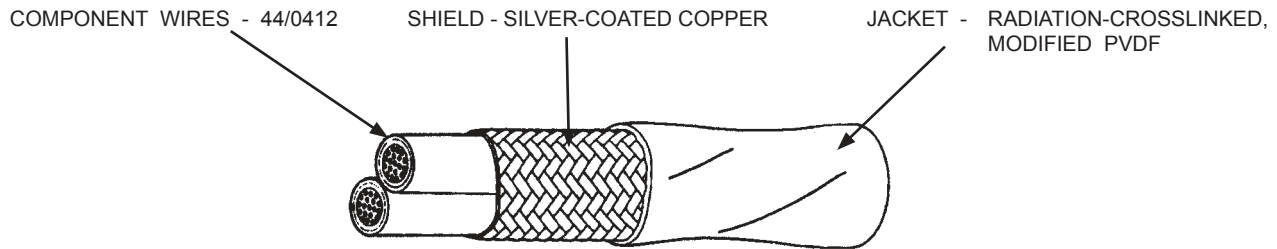


TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD STRAND THICKNESS (± .0004 inch)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
44/9760-26-*	26	.0015	.006	.008	.089	.094	6.2
44/9760-24-*	24	.0015	.006	.008	.101	.106	8.2
44/9760-22-*	22	.0015	.006	.008	.115	.121	10.9
44/9760-20-*	20	.0015	.006	.008	.131	.138	14.7
44/9760-18-*	18	.0015	.006	.008	.151	.159	20.7
44/9760-16-*	16	.0015	.006	.008	.165	.173	24.8
44/9760-14-*	14	.0015	.007	.009	.197	.207	37.0
44/9760-12-*	12	.0015	.007	.009	.241	.253	55.5

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
44/9760-26-*	2.50	3.00	3.00	.125	1.50
44/9760-24-*	2.75	3.00	3.00	.185	1.50
44/9760-22-*	3.25	3.00	3.00	.185	3.00
44/9760-20-*	3.50	6.00	6.00	.185	3.00
44/9760-18-*	4.25	6.00	6.00	.250	3.00
44/9760-16-*	4.50	6.00	6.00	.250	3.00
44/9760-14-*	5.50	6.00	6.00	.500	9.00
44/9760-12-*	7.00	6.00	6.00	.500	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.  
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.

Page 1 of 2

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

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<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 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 "\*" in the part numbers on page 1 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.

1/ Example: AWG 20, black and brown component wires; white jacket: 44/9760-20-0/1-9

1/ See footer section on page 1