

SPECIFICATION CONTROL DRAWING

44AC1821

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, SHIELDED, JACKETED, MEDIUM WEIGHT, AIRFRAME, 600 VOLT

Date 06-19-02

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 44 and WC 27500.

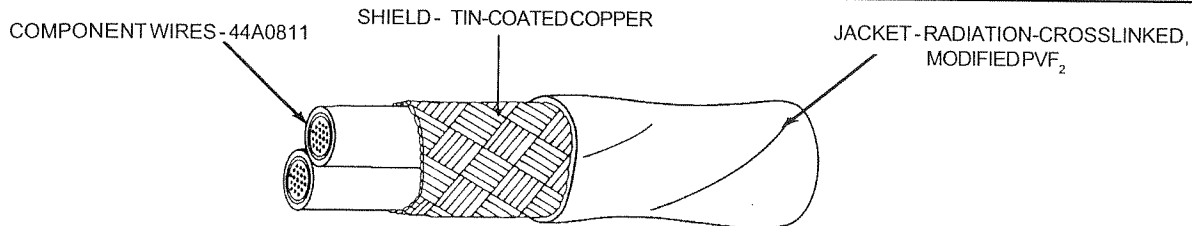


TABLE I. CABLE CONSTRUCTION DETAILS

PARTNUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AC1821-24-*	24	38	.005	.010	.141	.148	14.0
44AC1821-22-*	22	38	.005	.010	.157	.165	17.6
44AC1821-20-*	20	38	.006	.012	.175	.184	22.5
44AC1821-18-*	18	38	.006	.012	.195	.205	29.2
44AC1821-16-*	16	38	.006	.012	.213	.224	34.4
44AC1821-14-*	14	38	.007	.014	.253	.266	48.2
44AC1821-12-*	12	38	.007	.014	.289	.303	65.2
44AC1821-10-*	10	36	.007	.014	.351	.369	101.

TABLE II. CABLE PERFORMANCE DETAILS

PARTNUMBER	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND
44AC1821-24-*	6.00	6.00	.500	9.00
44AC1821-22-*	6.00	6.00	1.50	9.00
44AC1821-20-*	6.00	6.00	2.00	12.0
44AC1821-18-*	6.00	6.00	2.00	12.0
44AC1821-16-*	6.00	6.00	2.00	15.0
44AC1821-14-*	10.0	10.0	2.00	15.0
44AC1821-12-*	10.0	10.0	2.00	15.0
44AC1821-10-*	10.0	10.0	2.00	15.0

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

BLOCKING: 150 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 200 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz,

15 seconds (minimum), 30 seconds (maximum)

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), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

SHIELD COVERAGE: 90% (minimum)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1000 volts (rms), 60 Hz, 1 minute

PARTNUMBER:

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.

Example: AWG 24, white, white with blue stripe component wires; white jacket: 44AC1821-24-9/96-9

NOTE: Nominal values are for information only.
Nominal values are not requirements.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

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

300 Constitution Drive, Menlo Park, California 94025
1-800-2 Raychem Fax: 1-650-361-6297