

SPECIFICATION 44-EET

44A321 through 329 A  
15 January 1969

CABLE, ELECTRIC, RADIATION CROSSLINKED POLYALKENE INSULATED,  
ONE THROUGH NINE CONDUCTOR, SHIELDED, UNJACKETED, LIGHTWEIGHT, GENERAL PURPOSE, 1000 VOLT  
150°C

The complete requirements for procuring the cable described herein shall consist of this document and the issues in effect of Raychem Specification 44 and Specification MIL-W-81044 as applicable.

ONE CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			NOMINAL	MAXIMUM	
44A321T-28**	28	40	.049	.054	2.6
44A321T-26**	26	38	.058	.064	3.9
44A321T-24**	24	38	.064	.070	4.9
44A321T-22**	22	38	.072	.078	6.5
44A321T-20**	20	36	.084	.090	9.2
44A321T-18**	18	36	.095	.101	12.4
44A321T-16**	16	36	.103	.110	14.8
44A321T-14**	14	36	.120	.127	20.6
44A321T-12**	12	36	.139	.146	28.7
44A321T-10**	10	36	.168	.176	43.3
44A321T-8**	8	36	.229	.237	71.7
44A321T-6**	6	36	.276	.287	106.
44A321T-4**	4	36	.330	.348	162.

TWO CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			NOMINAL	MAXIMUM	
44A322T-28**	28	36	.094	.098	6.0
44A322T-26**	26	36	.102	.109	7.6
44A322T-24**	24	36	.114	.121	9.8
44A322T-22**	22	36	.130	.137	12.6
44A322T-20**	20	36	.146	.153	16.6
44A322T-18**	18	36	.168	.176	22.5
44A322T-16**	16	36	.184	.192	27.3
44A322T-14**	14	36	.218	.227	38.5
44A322T-12**	12	36	.256	.267	54.4
44A322T-10**	10	36	.314	.331	83.2

THREE CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			NOMINAL	MAXIMUM	
44A323T-28**	28	36	.098	.104	7.7
44A323T-26**	26	36	.108	.115	9.8
44A323T-24**	24	36	.121	.128	13.0
44A323T-22**	22	36	.139	.146	17.0
44A323T-20**	20	36	.156	.164	22.7
44A323T-18**	18	36	.180	.188	31.2
44A323T-16**	16	36	.197	.205	38.4
44A323T-14**	14	36	.234	.243	54.5
44A323T-12**	12	36	.275	.286	77.6
44A323T-10**	10	36	.337	.355	120.

FOUR CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			NOMINAL	MAXIMUM	
44A324T-28**	28	36	.110	.117	9.4
44A324T-26**	26	36	.122	.129	12.1
44A324T-24**	24	36	.137	.144	16.2
44A324T-22**	22	36	.157	.165	21.7
44A324T-20**	20	36	.177	.185	28.9
44A324T-18**	18	36	.205	.214	40.1
44A324T-16**	16	36	.225	.234	49.2
44A324T-14**	14	36	.267	.278	70.4
44A324T-12**	12	36	.315	.332	101.

FIVE CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			AVERAGE	MAXIMUM	
44A325T-28**	28	36	.117	.133	11.5
44A325T-26**	26	36	.130	.148	15.1
44A325T-24**	24	36	.146	.167	20.1
44A325T-22**	22	36	.168	.191	26.2
44A325T-20**	20	36	.189	.216	35.7
44A325T-18**	18	36	.219	.249	49.8
44A325T-16**	16	36	.241	.275	61.4
44A325T-14**	14	36	.287	.337	88.3
44A325T-12**	12	36	.338	.392	127.

SIX CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			AVERAGE	MAXIMUM	
44A326T-28**	28	36	.127	.134	13.6
44A326T-26**	26	36	.142	.149	17.3
44A326T-24**	24	36	.160	.168	23.5
44A326T-22**	22	36	.184	.192	31.1
44A326T-20**	20	36	.208	.217	42.4
44A326T-18**	18	36	.241	.250	59.2
44A326T-16**	16	36	.265	.276	73.0
44A326T-14**	14	36	.316	.333	105.
44A326T-12**	12	36	.373	.393	152.

SEVEN CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			AVERAGE	MAXIMUM	
44A327T-28**	28	36	.127	.134	13.8
44A327T-26**	26	36	.142	.149	18.1
44A327T-24**	24	36	.160	.168	24.9
44A327T-22**	22	36	.184	.192	33.6
44A327T-20**	20	36	.208	.217	46.2
44A327T-18**	18	36	.241	.250	65.0
44A327T-16**	16	36	.265	.276	80.6
44A327T-14**	14	36	.316	.333	117.
44A327T-12**	12	36	.373	.393	170.

EIGHT CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			AVERAGE	MAXIMUM	
44A328T-28**	28	36	.148	.169	15.7
44A328T-26**	26	36	.166	.179	20.7
44A328T-24**	24	36	.188	.214	28.4
44A328T-22**	22	36	.216	.246	38.0
44A328T-20**	20	36	.245	.280	52.6
44A328T-18**	18	36	.285	.330	74.4
44A328T-16**	16	36	.314	.363	92.3
44A328T-14**	14	36	.375	.435	133.9

NINE CONDUCTOR CABLE CONSTRUCTION					
PART NO.	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	DIAMETER (INCH)		NOM. WEIGHT (LBS/1000 FT)
			AVERAGE	MAXIMUM	
44A329T-28**	28	36	.162	.170	17.3
44A329T-26**	26	36	.182	.190	23.0
44A329T-24**	24	36	.206	.215	31.7
44A329T-22**	22	36	.238	.247	42.5
44A329T-20**	20	36	.270	.281	58.9
44A329T-18**	18	36	.314	.331	83.2
44A329T-16**	16	36	.346	.364	103.4

REQUIREMENTS

COMPONENT WIRES: 44A021T  
 TEMPERATURE RATING: 150°C (302°F) Max. Conductor Temperature  
 VOLTAGE RATING: 1000 volts (rms)  
 BLOCKING: 225 ± 3°C for 6 hours  
 Adjacent layers shall not stick together  
 MAXIMUM WEIGHT: Nominal + 5%  
 DIELECTRIC STRENGTH: 3000 volts/1 min. 60 cps (rms)  
 FLAMMABILITY: 30 sec. (max.); 3 inches (max.); no flaming of tissue paper  
 SHIELD COVERAGE: 85% (min.)

PART NO: The "\*" in part numbers above shall be replaced with a conductor material designator as follows: 1 tin-coated copper, 2 silver-plated copper, 3 nickel-plated copper, 4 silver-plated high strength copper alloy.

The "T" in part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a slash separating component wire colors:

Example: Four conductor, AWG 20 tin-coated copper wires, white, white with black stripe, white with red stripe, white with blue stripe: 44A324T-20-9/90/92/96.



100 CONSTITUTION DRIVE