

SPECIFICATION CONTROL DRAWING

55A1821

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, MODIFIED ETFE INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 4-27-93

Revision E

This specification sheet forms a part of the latest issue of Raychem Specification 55A.



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1821-26-*	26	38	.006	.008	.113	.119	9.6
55A1821-24-*	24	38	.006	.008	.123	.129	11.0
55A1821-22-*	22	38	.006	.008	.135	.141	13.9
55A1821-20-*	20	38	.006	.008	.151	.158	18.2
55A1821-18-*	18	38	.006	.008	.173	.180	24.5
55A1821-16-*	16	38	.006	.008	.189	.196	28.8
55A1821-14-*	14	38	.007	.009	.225	.233	41.4
55A1821-12-*	12	38	.007	.009	.259	.269	57.4
55A1821-10-*	10	38	.008	.010	.308	.323	85.7
55A1821- 8-*	8	36	.009	.011	.432	.454	163.
55A1821- 6-*	6	34	.010	.012	.532	.559	251.
55A1821- 4-*	4	34	.011	.015	.677	.711	385.
55A1821- 2-*	2	34	.012	.018	.879	.923	619.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
 Maximum continuous conductor temperature
 VOLTAGE RATING: 600 volts (rms)
 ACCELERATED AGING: 300 ± 3°C for 7 hours
 * BLOCKING: 200 ± 3°C for 6 hours
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz
 FLAMMABILITY: Procedure 1, 3 seconds (maximum);
 3 in. (maximum); no flaming of facial tissue
 JACKET COLOR: White preferred
 JACKET ELONGATION AND TENSILE STRENGTH:
 Elongation, 50% (minimum)
 Tensile Strength, 5000 lbf/in² (minimum)
 JACKET FLAWS:
 Spark Test, 1000 volts (rms), 60 Hz, 100% test
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

* LIFE CYCLE: 200 ± 3°C for 168 hours
 LOW TEMPERATURE-COLD BEND: -65 ± 3°C for 4 hours
 SHIELD COVERAGE: 85% (minimum)
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:
 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 20, red and orange component wires; white jacket: 55A1821-20-2/3-9

* Qualification Test

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.

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