

SPECIFICATION CONTROL DRAWING

55A6214

TITLE

TWO CONDUCTOR CABLE, SHIELDED,
JACKETED, NORMAL WEIGHT, 600 VOLT

Date

2-4-99

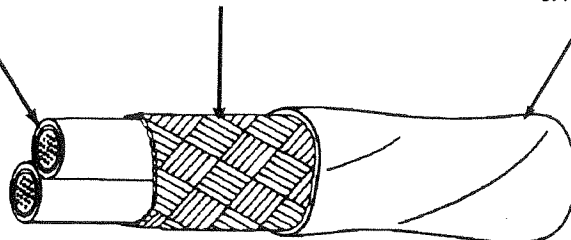
Revision

B

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-DTL-27500 as applicable.

COMPONENT WIRES - 55A0813

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6214-24-*	24	38	.005	.010	.123	.129	11.4
55A6214-22-*	22	38	.005	.010	.134	.141	14.1
55A6214-20-*	20	38	.005	.010	.150	.158	18.4
55A6214-18-*	18	38	.006	.011	.172	.180	24.9
55A6214-16-*	16	38	.006	.011	.188	.196	29.4
55A6214-14-*	14	38	.007	.012	.223	.234	41.8
55A6214-12-*	12	38	.007	.012	.257	.270	57.8
55A6214-10-*	10	38	.007	.013	.303	.318	85.1
55A6214- 8-*	8	36	.009	.017	.433	.455	165.
55A6214- 6-*	6	36	.010	.018	.527	.553	241.
55A6214- 4-*	4	34	.012	.022	.674	.708	401.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINK VERIFICATION: 300 ± 5°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, 1500 volts (rms), 60 Hz, 100% test

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

LOW TEMPERATURE-COLD BEND: -55°C ± 5°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, white and blue component wires; white jacket; 55A6214-20-9/6-9

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

This construction meets all the requirements of M27500-AWGSM2T23, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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