

SPECIFICATION CONTROL DRAWING

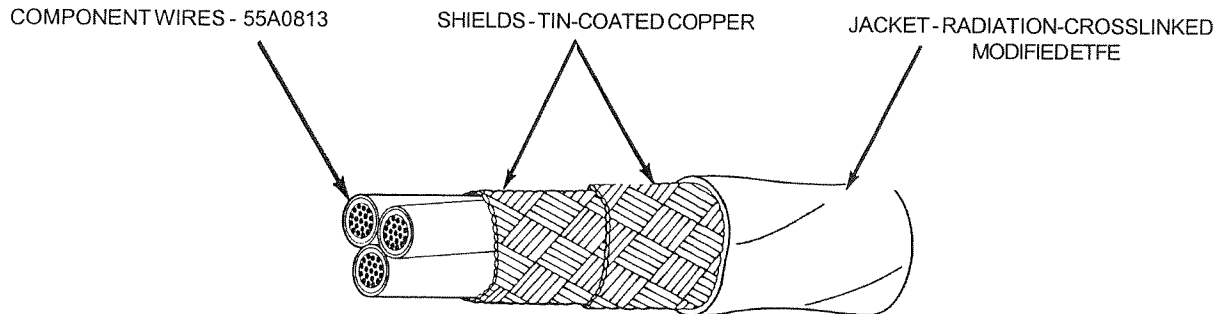
55A7456

TITLE THREE CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED,
NORMAL WEIGHT, 600 VOLT

Date 4-11-00

Revision

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



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	1ST SHIELD SIZE (AWG)	2ND SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7456-24-*	24	38	38	.005	.010	.147	.155	21.2
55A7456-22-*	22	38	38	.005	.010	.158	.166	25.3
55A7456-20-*	20	38	38	.006	.011	.175	.184	31.9
55A7456-18-*	18	38	38	.006	.011	.201	.211	42.7
55A7456-16-*	16	38	38	.006	.011	.216	.227	50.0
55A7456-14-*	14	38	38	.007	.012	.255	.268	69.8
55A7456-12-*	12	38	36	.007	.013	.296	.311	98.5

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

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

Conductor to Conductor and Shield

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), 100% test

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

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

SHIELD COVERAGE: 85% (minimum) (each)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "*" in the part numbers above shall be replaced by a color code designator with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Example: AWG 22, white, white with blue stripe and white with orange stripe, component wires;
white jacket; 55A7456-22-9/96/93-9

This construction meets all the requirements of M27500-AWGSM3V23, less identification.

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.

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