

SPECIFICATION CONTROL DRAWING

55A7257

TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED

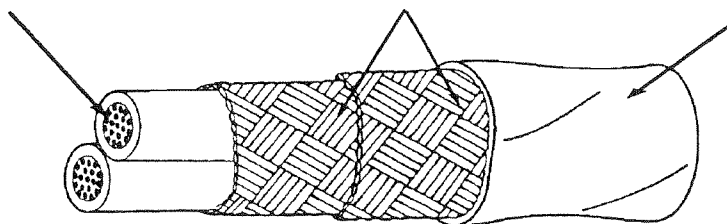
Date 9-27-94

Revision

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

COMPONENT WIRES - 55A0112

SHIELDS - SILVER-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7257-28-*	28	38	38	.005	.010	.104	.109	10.7
55A7257-26-*	26	38	38	.005	.010	.114	.120	12.8
55A7257-24-*	24	38	38	.005	.010	.124	.130	15.2
55A7257-22-*	22	38	38	.005	.010	.136	.143	18.2
55A7257-20-*	20	38	38	.005	.010	.150	.158	22.9
55A7257-18-*	18	38	38	.006	.011	.170	.179	29.7
55A7257-16-*	16	38	38	.006	.011	.186	.195	35.2
55A7257-14-*	14	38	38	.007	.012	.222	.233	49.3
55A7257-12-*	12	38	38	.007	.012	.258	.271	67.2

ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

AGING STABILITY: 230 ± 5°C for 96 hours

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz conductor to 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), 60 Hz, 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)

THERMAL SHOCK: 230 ± 5°C for 4 hours

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
component wire colors and a dash separating the
component wire colors from the jacket color.Example: AWG 22, white and black component wires;
white jacket: 55A7257-22-9/0-9NOTE: Nominal values are for information only.
Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSR2W23, less identification.

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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