

SPECIFICATION CONTROL DRAWING

55A6259

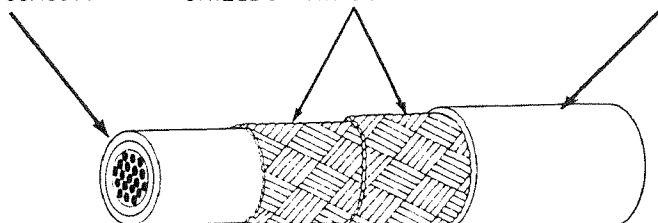
TITLE ONE CONDUCTOR CABLE, DOUBLE SHIELDED,
JACKETED, NORMAL WEIGHT

Date 8-9-97

Revision A

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

COMPONENT WIRE - 55A0811 SHIELDS - TIN-COATED COPPER JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6259-22-*	22	38	38	.005	.010	.100	.105	12.0
55A6259-20-*	20	38	38	.005	.010	.108	.113	14.5
55A6259-18-*	18	38	38	.005	.010	.120	.126	18.5
55A6259-16-*	16	38	38	.005	.010	.127	.133	21.2

CABLE RATING AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°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 dash separating the component wire color from the jacket color.
 Example: AWG 22, white component wire; white jacket:
 55A6259-22-9-9

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

This construction meets all the requirements of M27500-AWGSD1V23, 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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