

SPECIFICATION CONTROL DRAWING

55A7427

TITLE

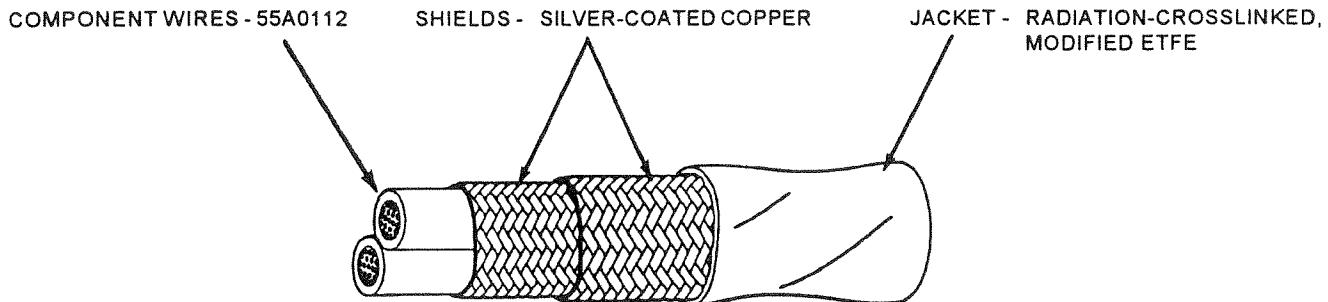
TWO CONDUCTOR CABLE, DOUBLE FLAT BRAID SHIELDED,
JACKETED, LIGHTWEIGHT

Date

1-11-99

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)	SHIELD STRAND THICKNESS ($\pm .0004$ in.) EACH	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7427-22-*	22	.0015	.005	.010	.116	.122	12.3
55A7427-20-*	20	.0015	.005	.010	.130	.137	16.3

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

BLOCKING: $200 \pm 3^\circ\text{C}$ for 6 hours

CROSSLINK VERIFICATION: $300 \pm 5^\circ\text{C}$ 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: $-55^\circ\text{C} \pm 5^\circ\text{C}$ 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 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 22, white and white with a blue stripe component wires; white jacket:

55A7427-22-9/96-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSR2A23, 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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