

SPECIFICATION CONTROL DRAWING

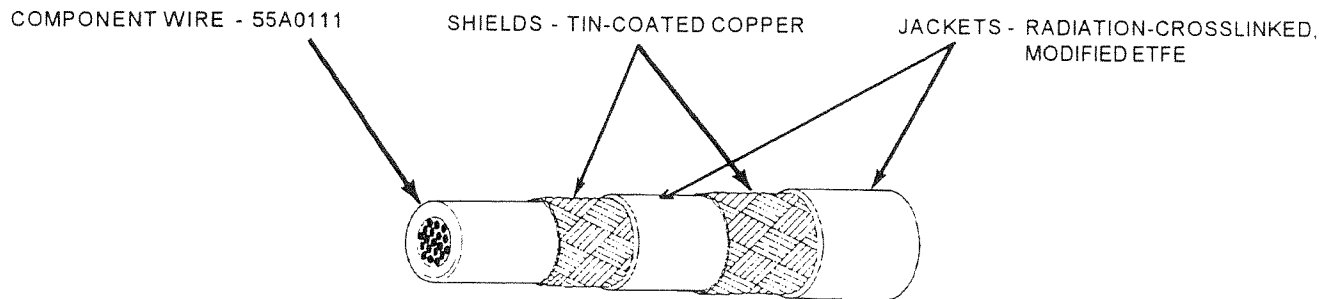
55A6741

TITLE ONE CONDUCTOR CABLE,
DOUBLE SHIELDED, DOUBLE JACKETED

Date 2-23-98

Revision B

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



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	INNER JACKET THICKNESS (inch)		OUTER SHIELD SIZE (AWG)	OUTER JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6741-22-*	22	38	.004	.008	38	.005	.010	.105	.110	12.8
55A6741-20-*	20	38	.004	.008	38	.005	.010	.112	.118	15.2

CABLE RATINGS 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,
 500 volts (rms), 60 Hz, shield 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) (each)
 Tensile Strength, 5000 lbf/in² (minimum) (each)
 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 inner jacket color and a dash separating the inner jacket color from the outer jacket color.
 Example: AWG 22, White component wire; white inner jacket and white outer jacket:
 55A6741-22-9-9-9

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

This construction meets all the requirements of M27500-AWG SB1V73, 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