

SPECIFICATION CONTROL DRAWING

55A6961

TITLE

TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED,
SHIELDED, JACKETED, 600 VOLT

Date

4-19-91

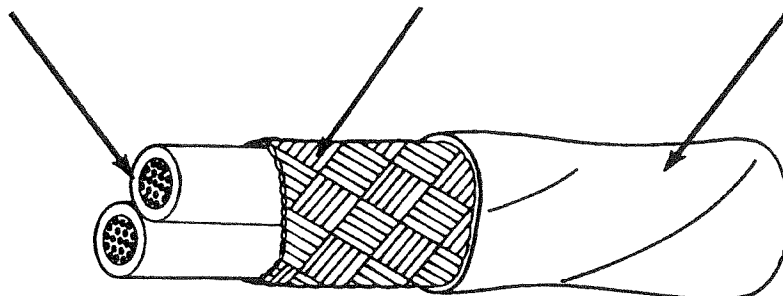
Revision

C

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

COMPONENT WIRES - 55A0112-AWG

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6961-28-*	28	38	.005	.010	.087	.091	6.3
55A6961-26-*	26	38	.005	.010	.097	.102	7.9
55A6961-24-*	24	38	.005	.010	.107	.112	9.8
55A6961-22-*	22	38	.005	.010	.119	.125	12.2
55A6961-20-*	20	38	.005	.010	.133	.140	16.2
55A6961-18-*	18	38	.005	.010	.153	.161	21.9
55A6961-16-*	16	38	.006	.011	.169	.177	26.6
55A6961-14-*	14	38	.006	.011	.203	.213	38.4
55A6961-12-*	12	38	.007	.012	.241	.253	55.1

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

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

NOTE: Nominal values are for information only.

Nominal values are not requirements.

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

SHIELD COVERAGE: 85% (minimum)

THERMAL SHOCK: 230 ± 5°C for 4 hours

VOLTAGE WITHSTAND TEST: (After Crosslinked Verification,
Immersion, and Low-Temperature-Cold Bend)

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The *** in the part numbers shall be replaced by color
code designators with slashes separating the component
wire colors and a dash separating the component wire
colors from the jacket color.Example: AWG 20, white, and blue component wire colors;
white jacket: 55A6961-20-9/6-9

This construction meets all the requirements of M27500-AWGSR2T23, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-661.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

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