

SPECIFICATION CONTROL DRAWING

55A6227TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED,
GENERAL PURPOSE, 600 VOLT

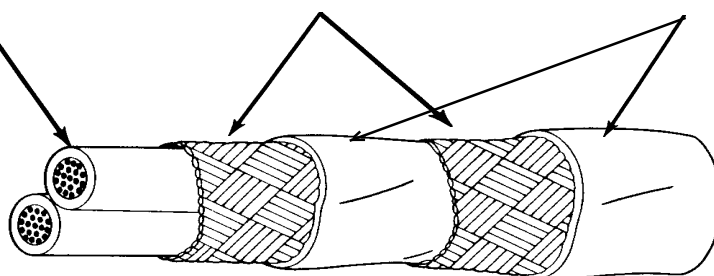
Date 8-11-05

Revision B

This specification sheet forms a part of the latest issue of Raychem Specification 55A.

COMPONENT WIRES - 55A0111

SHIELDS - TIN-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER <u>1/</u>	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	INNER JACKET THICKNESS (inches)		OUTER SHIELD SIZE (AWG)	OUTER JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6227-26-*	26	38	.004	.008	38	.005	.010	.126	.132	15.2
55A6227-24-*	24	38	.004	.008	38	.005	.010	.136	.143	17.7
55A6227-22-*	22	38	.004	.008	38	.005	.010	.148	.155	20.9
55A6227-20-*	20	38	.004	.008	38	.005	.010	.162	.170	25.8
55A6227-18-*	18	38	.004	.008	38	.006	.011	.182	.191	33.0
55A6227-16-*	16	38	.005	.008	38	.006	.011	.198	.208	38.8
55A6227-14-*	14	38	.005	.008	38	.007	.012	.234	.246	53.5
55A6227-12-*	12	38	.005	.009	38	.007	.013	.272	.285	72.6

ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND:

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

Impulse Dielectric Test, 6.0 kV (peak)

LOW TEMPERATURE-COLD BEND: -55 ± 5°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 colors, 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.

1/ Example: AWG 22, black and brown component wires;
white inner jacket and white outer jacket:
55A6227-22-0/1-9-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction shall meet all constructional requirements of M27500 (AWG SB2V73).

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.
Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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