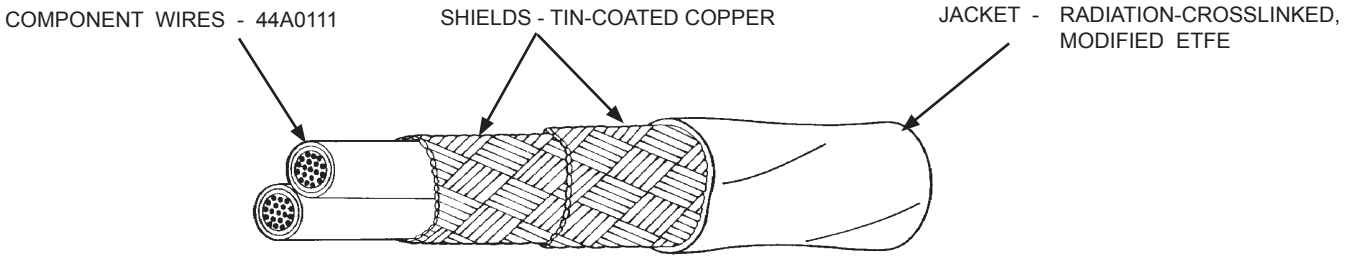
SPECIFICATION CONTROL DRAWING

44B9163

TITLE: TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT

Date: 6-4-07 | Revision: B

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



CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44B9163-24-*	24	38	38	.005	.010	.130	.137	16.1
44B9163-22-*	22	38	38	.005	.010	.144	.151	19.8
44B9163-20-*	20	38	38	.005	.010	.160	.168	24.7
44B9163-18-*	18	38	38	.006	.011	.180	.189	31.9
44B9163-16-*	16	38	38	.006	.011	.194	.204	37.3
44B9163-14-*	14	38	38	.007	.012	.230	.242	52.1
44B9163-12-*	12	38	38	.007	.012	.268	.281	72.5

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms) at sea level
BLOCKING: 150 ± 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, 1.5 kV (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 wire colors and a dash separating the component wire colors from the jacket color.

1/ Example: AWG 20, blue and white component wires; white jacket: 44B9163-20-6/9-9

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

This cable shall meet all constructional requirements of M27500 (AWGML2V23).

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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DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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