

SPECIFICATION CONTROL DRAWING

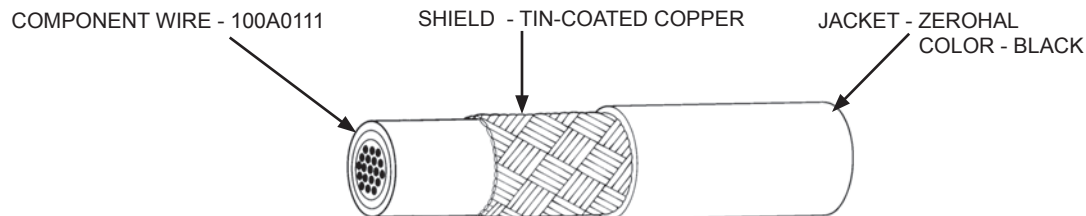
100A1111

TITLE
ONE CONDUCTOR CABLE, HALOGEN FREE, SHIELDED, JACKETED, 600 VOLT, 105°C

Date
2-4-10

Revision
6

This specification sheet forms a part of the latest issue of Raychem Specification WCD 2015.



CONSTRUCTION DETAILS														
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS				DIAMETER						MAXIMUM WEIGHT	
			LOWER SPEC LIMIT		TARGET WALL		LOWER SPEC LIMIT		TARGET VALUE		UPPER SPEC LIMIT			
			in.	mm	in.	mm	inches	mm	inches	mm	inches	mm	lbs/kft	kg/km
100A1111-24-*	24	38	.011	.28	.013	.33	.084	2.14	.088	2.24	.093	2.36	7.52	11.2
100A1111-22-*	22	38	.011	.28	.013	.33	.090	2.28	.094	2.39	.099	2.51	8.93	13.3
100A1111-20-*	20	38	.011	.28	.013	.33	.098	2.48	.102	2.60	.108	2.73	11.28	16.8
100A1111-18-*	18	38	.011	.28	.013	.33	.107	2.71	.112	2.84	.118	2.99	14.43	21.5
100A1111-16-*	16	38	.011	.28	.013	.33	.112	2.85	.118	2.99	.124	3.14	16.85	25.1
100A1111-14-*	14	38	.011	.28	.013	.33	.129	3.27	.135	3.43	.142	3.60	23.69	35.3
100A1111-12-*	12	38	.011	.28	.013	.33	.146	3.71	.153	3.88	.160	4.08	31.88	47.5
100A1111-10-*	10	38	.011	.28	.013	.33	.171	4.33	.178	4.52	.187	4.75	46.51	69.3

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.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 105°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 125% (minimum)

Tensile Strength, 1160 lbf/in² (minimum)

LOW TEMPERATURE-COLD BEND: -30 ± 3°C for 4 hours

HEAT SHOCK AND SHRINKAGE: 150 ± 3°C for 4 hours, 0.118 in. (maximum) in 12 inches

VOLTAGE WITHSTAND (Post Environmental): 1500 volts (rms), 60 Hz 5 minutes

TEAR STRENGTH: 28.3 lb/in (minimum)

SHIELD COVERAGE: 85% (minimum)

INSULATION RESISTANCE: 3.28 megohms (minimum) for 1000 ft.

JACKET FLAWS: Spark Test, 3000 volts (rms)

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by color code designators with a dash separating the component wire color from the jacket color.

1/ Example: AWG 22, black component wire: black jacket:100A1111-22-0-0