

SPECIFICATION CONTROL DRAWING

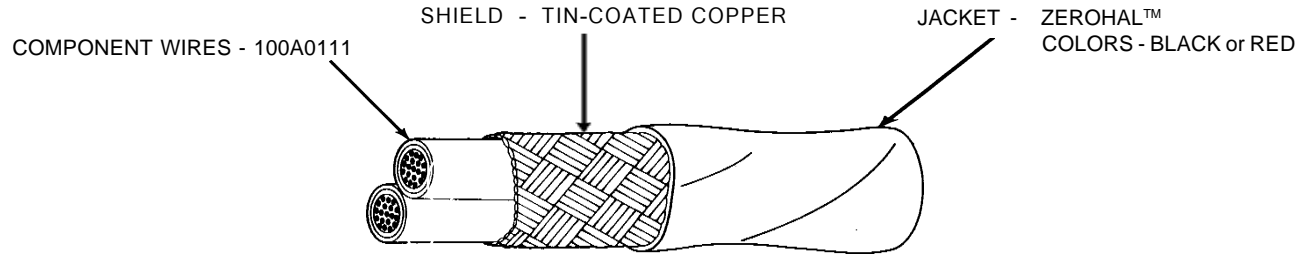
100A1121

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

Date 03-19-04

Revision 7

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	in.	mm	in.	mm	in.	mm	lbs/kft	kg/km
100A1121-24-*	24	36	.011	.28	.013	.33	.131	3.34	.138	3.51	.145	3.68	14.48	21.6
100A1121-22-*	22	36	.011	.28	.013	.33	.143	3.63	.150	3.81	.157	4.00	17.41	25.9
100A1121-20-*	20	36	.011	.28	.013	.33	.159	4.05	.166	4.22	.175	4.43	22.21	33.1
100A1121-18-*	18	36	.011	.28	.013	.33	.177	4.50	.185	4.70	.194	4.94	28.68	42.7
100A1121-16-*	16	36	.011	.28	.013	.33	.189	4.79	.197	4.99	.206	5.24	33.58	50.0
100A1121-14-*	14	36	.011	.28	.013	.33	.223	5.65	.231	5.87	.243	6.17	47.56	70.9
100A1121-12-*	12	36	.011	.28	.013	.33	.257	6.53	.267	6.78	.280	7.12	64.46	96.0
100A1121-10-*	10	36	.011	.28	.013	.33	.306	7.78	.317	8.06	.333	8.46	94.59	140.9

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 in.

VOLTAGE WITHSTAND TEST (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 above shall be replaced by a color code designator with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

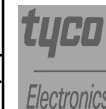
1/ Example: AWG 24, red and blue component wires; black jacket: 100A1121-24-2/6-0

*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.

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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