

SPECIFICATION CONTROL DRAWING

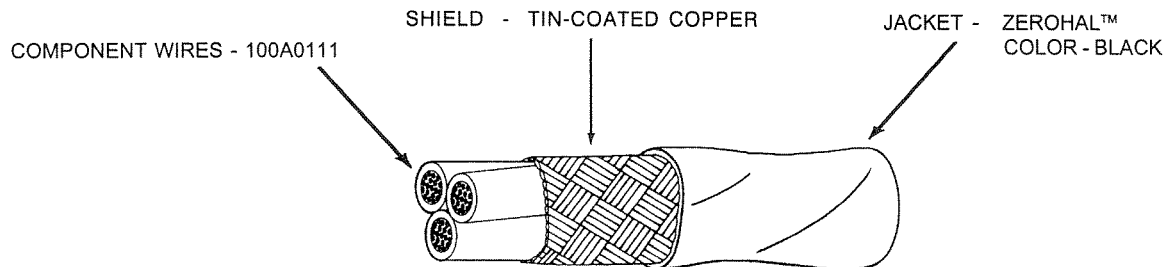
100A1131

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

Date 05-10-02

Revision 8

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



CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS				DIAMETER						MAXIMUM WEIGHT	
			LOWERSPEC LIMIT		TARGET WALL		LOWERSPEC LIMIT		TARGET VALUE		UPPER SPEC LIMIT			
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs/kft	kg/km
100A1131-24-*	24	36	.011	.28	.013	.33	.138	3.51	.145	3.69	.152	3.87	18.64	27.8
100A1131-22-*	22	36	.011	.28	.013	.33	.151	3.83	.158	4.01	.166	4.21	22.73	33.9
100A1131-20-*	20	36	.011	.28	.013	.33	.169	4.28	.176	4.46	.185	4.69	29.51	44.0
100A1131-18-*	18	36	.011	.28	.013	.33	.188	4.77	.196	4.98	.206	5.23	38.72	57.7
100A1131-16-*	16	36	.011	.28	.013	.33	.200	5.09	.209	5.30	.219	5.56	45.78	68.2
100A1131-14-*	14	36	.011	.28	.013	.33	.237	6.02	.246	6.25	.258	6.56	65.83	98.1
100A1131-12-*	12	36	.011	.28	.013	.33	.274	6.96	.285	7.23	.299	7.59	90.22	134
100A1131-10-*	10	36	.011	.28	.013	.33	.327	8.31	.339	8.61	.356	9.04	134.01	200

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 105°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

JACKET CONCENTRICITY: 70% (minimum)

JACKET ELONGATION AND TENSILE STRENGTH:

Tensile strength, 1160 lbf/in² (minimum)

Elongation, 125% (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), 100% test

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.

Example: AWG 24, red, blue and yellow component wires; black jacket: 100A1131-24-2/6/4-0

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.