

SPECIFICATION CONTROL DRAWING

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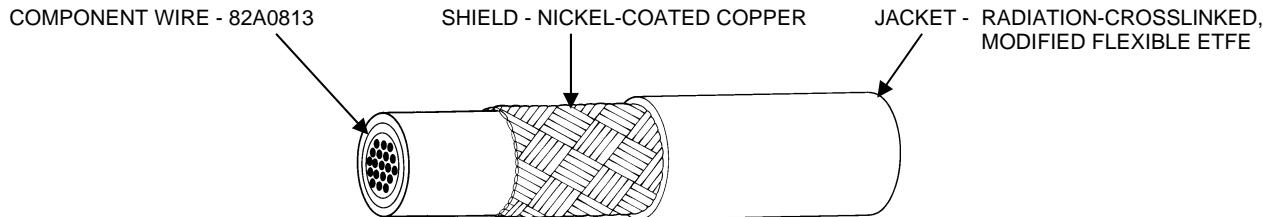
82A1813

Title ONE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, FLEXIBLE, 600 VOLT

Date 5-31-16

Revision C

This specification sheet forms a part of the latest issue of Raychem Specification 80.



CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82A1813-20-*	20	38	.006	.008	.097	.102	11.1
82A1813-18-*	18	38	.006	.008	.109	.114	14.8
82A1813-16-*	16	38	.007	.009	.127	.133	20.2
82A1813-14-*	14	38	.008	.010	.153	.161	30.2
82A1813-12-*	12	38	.008	.010	.174	.183	40.2
82A1813-10-*	10	38	.009	.012	.228	.239	67.7
82A1813-8-*	8	38	.011	.014	.275	.289	100.
82A1813-6-*	6	36	.011	.015	.328	.344	151.
82A1813-4-*	4	36	.014	.018	.416	.437	235.
82A1813-2-*	2	34	.016	.021	.501	.526	351.
82A1813-1-*	1	34	.017	.023	.560	.588	426.
82A1813-0-*	0	34	.019	.025	.634	.666	534.
82A1813-00-*	00	34	.020	.027	.692	.727	649.
82A1813-000-*	000	34	.023	.030	.764	.802	791.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 100% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1500 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

SECANT MODULUS (Test per ASTM D 882):

4.0 x 10⁴ lbf/in² (maximum),

2% strain, 2 inch jaw separation, 0.2 inch/minute

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

1/ PART NUMBER:

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

Example: AWG 16, white component wire; white jacket: 82A1813-16-9-9

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

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics Corporation 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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