

SPECIFICATION CONTROL DRAWING

WIRE, ELECTRIC, RADIATION-CROSSLINKED, MODIFIED, FLEXIBLE ETFE-INSULATED, LIGHTWEIGHT

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

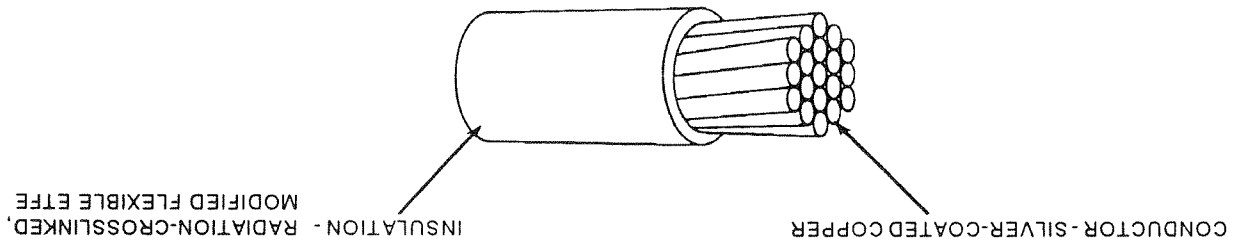


TABLE 1. CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM			
81A0112-26	26	19 x 38	.018	.019	38.4	.031 ± .002	1.4
81A0112-24	24	19 x 36	.023	.024	24.3	.036 ± .002	2.0
81A0112-22	22	19 x 34	.029	.030	15.1	.042 ± .002	2.8
81A0112-20	20	19 x 32	.037	.038	9.19	.051 ± .002	4.5
81A0112-18	18	19 x 30	.046	.047	5.79	.061 ± .003	6.8
81A0112-16	16	19 x 29	.052	.053	4.52	.068 ± .003	8.6
81A0112-14	14	19 x 27	.065	.067	2.88	.083 ± .004	13.3
81A0112-12	12	37 x 28	.084	.086	1.94	.105 ± .004	20.5
81A0112-10	10	37 x 26	.106	.108	1.21	.131 ± .005	32.9
81A0112-8	8	133 x 29	.158	.162	.671	.190 ± .008	60.8
81A0112-6	6	133 x 27	.198	.204	.426	.237 ± .010	95.7
81A0112-4	4	133 x 25	.250	.257	.269	.297 ± .014	149
81A0112-2	2	665 x 30	.320	.331	.173	.375 ± .014	243
81A0112-1	1	817 x 30	.360	.372	.142	.425 ± .016	291
81A0112-0	0	1045 x 30	.405	.418	.110	.477 ± .016	378
81A0112-00	00	1330 x 30	.450	.464	.087	.523 ± .016	468

TABLE II. PERFORMANCE DETAILS

PART NUMBER	MANDREL DIAMETER (inch) (±3%)	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST	BEND TESTING	
				WEIGHT (lb) (± 3%)	
81A0112-26	.375			.125	
81A0112-24	.375			.250	
81A0112-22	.500			.375	
81A0112-20	.500			.500	
81A0112-18	.500			.500	
81A0112-16	.750			.750	
81A0112-14	1.00			1.00	
81A0112-12	1.50			1.50	
81A0112-10	2.00			1.50	
81A0112-8	3.00			2.00	
81A0112-6	3.00			2.00	
81A0112-4	4.00			2.50	
81A0112-2	6.00			3.00	
81A0112-1	8.00			4.00	
81A0112-0	8.00			4.00	
81A0112-00	8.00			4.00	

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms)
COLOR: White preferred
CONCENTRICITY: 70% (minimum)
CROSSLINKING PROOF TEST: 300 ± 3°C,
30 minutes for AWG 26 - 14, 1 hour for AWG 12 and larger
IDENTIFICATION AND COLOR STRIPING DURABILITY:
125 cycles (250 strokes)(minimum), 500 g weight
INSULATION ELONGATION AND TENSILE STRENGTH:
AWG 26 - 10, Elongation, 75% (minimum)
Tensile Strength, 3500 lbf/in² (minimum)
AWG 8 - 00, Elongation, 125% (minimum)
Tensile Strength, 3000 lbf/in² (minimum)
INSULATION FLAWS: Impulse Dielectric Test, 6.0 kV (peak)
INSULATION THICKNESS:
AWG 26 - 16, .004 in. (minimum)
AWG 14 - 10, .006 in. (minimum)
AWG 8 - 00, .012 in. (minimum)
PRODUCT IDENTIFICATION: AWG 26 - 10, black ink only
AWG 8 - 00, black ink preferred
SHRINKAGE: 150 ± 3°C for 6 hours,
AWG 26 - 10, 0.13 inch (maximum) in 12 inches,
AWG 8 - 00, .25 inch (maximum) in 12 inches
VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):
2500 volts (rms), 60 HZ

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by color code designators.

Example: AWG 14, white: 81A0112-14-9

AWG 14, white with black stripe: 81A0112-14-90

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Hook-up Wire](#) category:

Click to view products by [TE Connectivity](#) manufacturer:

Other Similar products are found below :

[002333-000](#) [M81044/12-22-6](#) [M81044/9-8-9](#) [743094-001](#) [81044/12-18-9CS3209](#) [8538-009-1000](#) [ATFC0311-20-5D](#) [EF5675-000](#)
[BFWUL3239-24-PINK](#) [22759/34-16-9CS2621](#) [22759/42-24-9CS2620](#) [933205-000](#) [284711-000](#) [961473-000](#) [30802-009-250](#) [99M0111-20-2](#)
[A00594-000](#) [190571-000](#) [22759/41-12-9CS2620](#) [22759/41-16-9CS2620](#) [22759/43-10-9CS2873](#) [265925-000](#) [CM9524-000](#) [31510-010-250](#)
[31514-009-500](#) [34401-010-250](#) [34402-010-500](#) [M81044/9-4-9](#) [391441-BK007](#) [400R0111-10-9](#) [431660-000](#) [ATFC0311-20-0](#) [44/7024-26-9-9](#)
[44A0112-22-9CS3184](#) [456157-000](#) [BFW-UL3239-24-WHITE](#) [55/0312-26-6L-CS2570](#) [55A0811-12-9](#) [55A6087-20-9-9-9](#) [55A6315-22-9-](#)
[9CS2632](#) [55A7400-22-9/96-9CS2275](#) [55A9002-30-5](#) [55PC0211-20-5CS2502](#) [55PC0811-6-9CS2637](#) [55PC1211-22-9-9CS3278](#) [C07683-000](#)
[32820-009-5000](#) [34020-008-2000](#) [391850-BK199](#) [392075-RD199](#)