Date 1-27-14

Revision

AB

This specification sheet forms a part of the latest issue of Raychem Specification 35, to the extent specified herein.

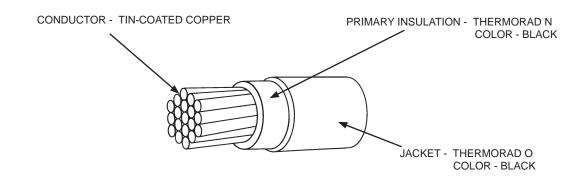


	TABLE I. CONSTRUCTION DETAILS						
PART NUMBER 1/	WIRE SIZE (AWG) or (MCM)	CONDUCTOR STRANDING (number x AWG)	MAXIMUM DIAMETER OF STRANDED CONDUCTOR (inch)	FINISHED WIRE			
				MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	DIAMETER (inch)	MAXIMUM WEIGHT (lbs/1000 ft.)	
10603-14-0	14	37 x 30	.075	3.11	.175 ± .005	26.9	
10603-12-0	12	37 x 28	.089	2.02	.189 ± .006	32.6	
10603-10-0	10	37 x 26	.113	1.26	.213 ± .006	46.6	
10603-8-0	8	133 x 29	.173	.701	.280 ± .008	79.6	
10603-6-0	6	133 x 27	.217	.445	.324 ± .010	115.	
10603-4-0	4	133 x 25	.274	.280	.380 ± .011	170.	
10603-2-0	2	665 x 30	.340	.183	.466 ± .014	269.	
10603-0-0	0	1045 x 30	.425	.116	.560 ± .017	404.	
10603-00-0	00	1330 x 30	.475	.091	.616 ± .018	503.	
10603-000-0	000	1665 x 30	.540	.071	.669 ± .020	609.	
10603-0000-0	0000	2109 x 30	.605	.056	.803 ± .024	815.	
10603-250-0	250	2499 x 30	.716	.045	.932 ± .028	1044.	
10603-350-0	350	3458 x 30	.840	.032	1.066 ± .032	1415.	

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 SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

Thermorad, Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks

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.



Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297



SPECIFICATION CONTROL DRAWING

Page 2 of 2

Revision AB SCD Number

10603

	TABLE II. PERFOR	RMANCE DETAILS	}				
		BEND TESTING					
PART NUMBER	MANDREL DIAM (inches) (± 3°		WEIGHT (lbs) (± 3%)				
1/	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND			
10603-14-0	3.00	3.00	2.00	5.00			
10603-12-0	3.00	3.00	2.00	6.00			
10603-10-0	3.00	3.00	2.00	6.00			
10603-8-0	3.00	3.00	2,00	10.0			
10603-6-0	4.00	4.00	2.00	10.0			
10603-4-0	6.00	6.00	3.00	15.0			
10603-2-0	8.00	8.00	3.00	15.0			
10603-0-0	10.0	10.0	4.00	20.0			
10603-00-0	12.0	12.0	6.00	30.0			
10603-000-0	13.5	13.5	6.00	30.0			
10603-0000-0	15.0	15.0	6.00	30.0			
10603-250-0	18.5	18.5	6.00	30.0			
10603-350-0	21.0	21.0	6.00	30.0			

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: $175 \pm 4^{\circ}$ C for 4 hours

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Self extinguishing within 60 seconds (maximum), 25% (maximum) of flag burned; no flaming of cotton INSULATION ELONGATION AND TENSILE STRENGTH:

Each Layer,

Elongation, 100% (minimum)

Tensile Strength, 1500 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 5.7 kV (rms) at 3 kHz Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE:

100 megohms for 1000 ft. (minimum)

JACKET THICKNESS: .0300 in. (nominal), AWG 14-10 .0375 in. (nominal), AWG 8-4

.0400 in. (nominal), AWG 2-000

.0600 in. (nominal), AWG 0000-350 MCM

LIFE CYCLE: 150 ± 3°C for 96 hours

LOW TEMPERATURE-COLD BEND: -55 ± 2°C for 4 hours

OIL RESISTANCE:

Brayco 883 (or Royco 770) per MIL-PRF-46170, 20% (maximum) swell after 20 hours at 90°C; SAE Grade 15W-40 Lubricating Oil per MIL-PRF-2104, 20% (maximum) swell after 20 hours at 90°C;

SAE Grade 30 Lubricating Oil, 20% (maximum) swell after 20 hours at 90°C SHRINKAGE: 150 ± 3°C for 4 hours, 0.5 in. (maximum) sum of both ends

VOLTAGE WITHSTAND (Post Environmental): 3000 volts (rms)

Replaces 34/7010

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:

M81044/12-22-6 M81044/9-8-9 CV5509-000 743094-001 81044/12-18-9CS3209 8538-009-1000 BFWUL3239-24-PINK 22759/34-16-9CS2621 22759/42-24-9CS2620 933205-000 284711-000 961473-000 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 34430-010-250 M81044/9-4-9 391441-BK007 400R0111-10-9 431660-000 ATFC0311-20-0 ATFC0311-20-3 44/7024-26-9-9 44A0112-22-9CS3184 456157-000 55/0312-26-6L-CS2570 31514-010-4000 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 34406-010-1000 358838-000 391850-BK199 392075-RD199 W28-6HU