SPECIFICATION CONTROL DRAWING

WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT

Revision Date

2-16-11

CMC-0587

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

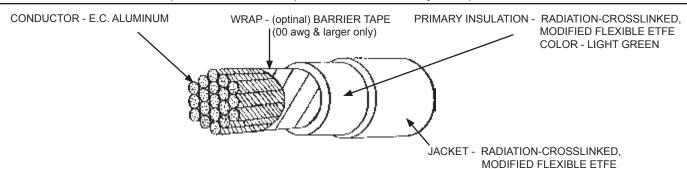


TABLE I. CONSTRUCTION DETAILS								
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT	
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	. ,	(lbs/1000 ft.)	
CMC-0587-8-*	8	41 x 24	.150	.160	1.09	.216 ± .008	32.3	
CMC-0587-6-*	6	70 x 24	.201	.211	.641	.267 ± .010	48.9	
CMC-0587-4-*	4	107 x 24	.248	.262	.427	.325 ± .010	71.5	
CMC-0587-2-*	2	168 x 24	.310	.330	.268	.407 ± .016	114.	
CMC-0587-0-*	0	259 x 24	.396	.420	.169	.504 ± .016	170.	
CMC-0587-00-*	00	334 x 24	.454	.478	.133	.553 ± .016	201.	
CMC-0587-000-*	000	427 x 24	.511	.535	.109	.630 ± .016	257.	
CMC-0587-0000-*	0000	523 x 24	.563	.587	.089	.685 ± .016	304.	

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER 1/	MANDREL DIAMETER (inch) (± 3%)	WEIGHT (lb) (± 3%)				
	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST				
CMC-0587-8-*	3.00	3,00				
CMC-0587-6-*	4.00	3.00				
CMC-0587-4-*	5.00	3.00				
CMC-0587-2-*	6.00	4.00				
CMC-0587-0-*	8.00	4.00				
CMC-0587-00-*	9.00	4.00				
CMC-0587-000-*	10.0	4.00				
CMC-0587-0000-*	12.0	4.00				

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. 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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TITLE

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID ₹ Тусо Electronics Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

CONCENTRICITY: 70% (minimum)

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

IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 125% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 1.5 kV (rms) at 3 kHz Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 3.0 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS:

.012 inch (minimum) for outer jacket

AWG 2 - 0000, .010 inch (minimum) for primary insulation

.015 inch (minimum) for outer jacket

JACKET COLOR: White preferred

SHRINKAGE: 150 ± 3°C for 6 hours, 0.25 inch (maximum) in 12 inches VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz

PART NUMBER:

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

1/ Example: AWG 2, white: CMC-0587-2-9

PRODUCT IDENTIFICATION: Mark outer jacket in a contrasting color at 12 inch (nominal) intervals with the following: " CMC-0587-AWG-06090 "

1/ See footer section on page 1