SPECIFICATION CONTROL DRAWING

CMC-0588

TITLE

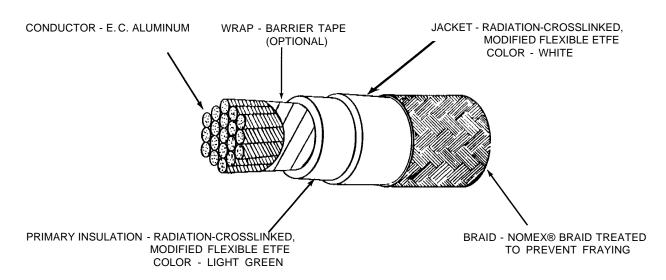
WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT

Date **1-24-07**

Revision

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



		TA	BLE I. CONST	RUCTION DE	TAILS		
	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE		
PART NUMBER 1/					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	(ohms/1000 ft.)		
CMC-0588-8-*	8	41 x 24	.150	.160	1.09	.231 ± .008	35.3
CMC-0588-6-*	6	70 x 24	.201	.211	.641	.282 ± .010	52.4
CMC-0588-4-*	4	107 x 24	.248	.262	.427	.340 ± .010	76.3
CMC-0588-2-*	2	168 x 24	.310	.330	.268	.422 ± .016	120.
CMC-0588-1-*	1	219 x 24	.348	.368	.214	.486 ± .016	149.
CMC-0588-0-*	0	259 x 24	.396	.420	.169	.519 ± .016	177.
CMC-0588-00-*	00	334 x 24	.454	.478	.133	.568 ± .016	209.
CMC-0588-000-*	000	427 x 24	.511	.535	.109	.645 ± .016	265.
CMC-0588-0000-*	0000	523 x 24	.563	.587	.089	.700 ± .016	313.

	TABLE II. PERFORMANCE DETA	AILS			
	BEND TESTING				
PART NUMBER	MANDREL DIAMETER (in.) (±3%)	WEIGHT (lb) (±3%) CROSSLINKING PROOF TEST			
1/	CROSSLINKING PROOF TEST				
CMC-0588-8-*	3.00	3.00			
CMC-0588-6-*	4.00	3.00			
CMC-0588-4-*	5.00	3.00			
CMC-0588-2-*	6.00	4.00			
CMC-0588-1-*	7.00	4.00			
CMC-0588-0-*	8.00	4.00			
CMC-0588-00-*	9.00	4.00			
CMC-0588-000-*	10.0	4.00			
CMC-0588-0000-*	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

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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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^{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.

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

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

BRAID COLOR: Dark green preferred CONCENTRICITY: 70% (minimum)

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

For AWG 8 - 4: 0.008 in. (minimum) for primary insulation

0.012 in. (minimum) for outer jacket

For AWG 2 and larger: 0.010 in. (minimum) for primary insulation 0.015 in. (minimum) for outer jacket

SECANT MODULUS: (Test per ASTM D 882)

4.0 x 10⁴ lbf/in² (maximum), 2% strain, 2 inch jaw separation, 0.2 inch/minute

SHRINKAGE: 150 ± 3 °C for 6 hours, 0.25 in. (maximum) in 12 in.

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, except that green shall be dark green and the designator shall be 5D.

1/ Example: AWG 2, dark green braid: CMC-0588-2-5D

PRODUCT IDENTIFICATION: Mark outer braid in a contrasting color at 12 inch (nominal) intervals with the following: "CMC-0588-AWG-06090"

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1/ See footer section on page 1