

SPECIFICATION CONTROL DRAWING

SCD **FLHT+6009**

Title HIGH TEMPERATURE HOOKUP WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, 1000 VOLT

Date 4-10-17

Revision A

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of Raychem Specification WCD 3106, UL Subject 758, Style 3622, File E303150, and carries UL labels to this effect.

CONDUCTOR - SILVER-COATED COPPER

INSULATION - RADIATION-CROSSLINKED, MODIFIED ETFE

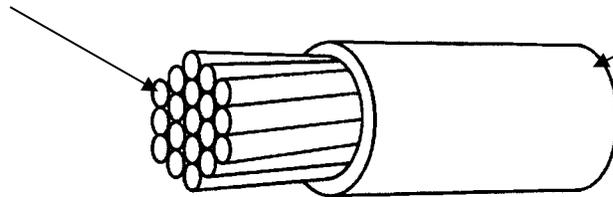


TABLE I. CONSTRUCTION DETAILS

PART NUMBER <i>1/</i>	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	NOMINAL DIAMETER OF STRANDED CONDUCTOR (inch) (mm)	FINISHED WIRE				
				MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	DIAMETER (inch) (mm)			NOMINAL WEIGHT (lbs/1000 ft.) (kg/km)
					MINIMUM	NOMINAL	MAXIMUM	
FLHTC6009-22-*	22	19 x 34	.030 (.762)	16.9 (55.4)	.0592 (1.50)	.0615 (1.56)	.0638 (1.62)	3.91 (5.82)

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. 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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TABLE II. PERFORMANCE DETAILS		
PART NUMBER <u>1/</u>	CROSSLINK VERIFICATION - BEND TESTING	
	MANDREL DIAMETER (inch) (mm) (± 3%)	WEIGHT (lb) (kg) (± 3%)
FLHTC6009-22-*	1.00 (25.4)	2.00 (.907)

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C
 VOLTAGE RATING: 1000 volts (rms) at sea level
 CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour
 FLAME RATING: VW-1
 INSULATION ELONGATION AND TENSILE STRENGTH:
 Elongation: 100% (minimum)
 Tensile Strength, 5470 lbf/in² (minimum)
 INSULATION FLAWS:
 Spark Test, 10.0 kV (rms)
 Impulse Dielectric Test, 8.0 kV (peak)
 INSULATION THICKNESS:
 .0055 inch (minimum), .006 inch (minimum average)
 SHRINKAGE: 200°C for 1 hour, 0.125 inch (maximum) per end
 THERMAL STABILITY: 232°C for 168 hours,
 Elongation, 60% (minimum)
 Tensile Strength, 5000 lbf/in² (minimum)
 VOLTAGE WITHSTAND (Post Environmental):
 2500 volts (rms), 60 Hz, 5 minutes

1/ PART NUMBER:

The "+" in the part number in the upper right hand corner of pages 1 and 2 shall be replaced with a letter designator to define conductor stranding (see part numbers in Tables I and II).

B = 7 Strands C = 19 Strands D = 37 Strands

The "*" in the part numbers in Tables I and II shall be replaced by a color code designator.

Example: AWG 22, 19 strands, white: FLHTC6009-22-9
 AWG 22, 19 strands, white with a black stripe: FLHTC6009-22-90

MARKING: Mark outer surface of wire in contrasting ink at 2 ft. (maximum) intervals as follows:

"  AWM STYLE 3622 1000V 200C VW-1 RAYCHEM E303150 22 AWG"

1/ See footer section on page 1