

SPECIFICATION CONTROL DRAWING

FLHTA0311

TITLE

HIGH TEMPERATURE HOOKUP WIRE, RADIATION-CROSSLINKED, MODIFIED ETFE-INSULATED, 600 VOLT

Date

8-18-10

Revision

D

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 3557, File E303150 and carries UL labels to this effect.

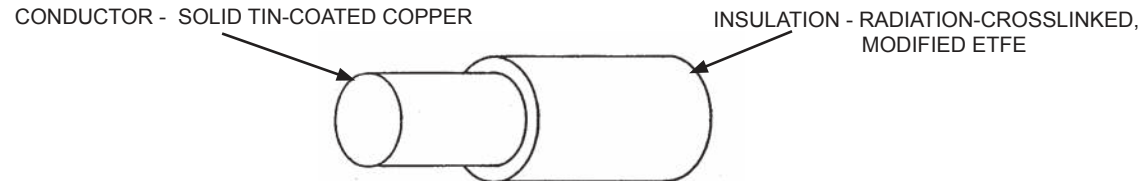


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR DIAMETER (in.) (mm)		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	FINISHED WIRE			NOMINAL WEIGHT (lbs/1000 ft.) (kg/km)
		MINIMUM	NOMINAL		DIAMETER (in.) (mm)			
					MINIMUM	NOMINAL	MAXIMUM	
FLHTA0311-26-*	26	.0157 (.399)	.0159 (.404)	44.5 (146.)	.0285 (.724)	.0299 (.759)	.0313 (.795)	1.15 (1.71)
FLHTA0311-24-*	24	.0199 (.506)	.0201 (.511)	27.3 (89.6)	.0317 (.805)	.0331 (.841)	.0345 (.876)	1.63 (2.43)
FLHTA0311-22-*	22	.0250 (.635)	.0253 (.643)	17.2 (56.4)	.0369 (.937)	.0383 (.973)	.0397 (1.01)	2.43 (3.62)
FLHTA0311-20-*	20	.0317 (.805)	.0320 (.813)	10.7 (35.1)	.0436 (1.11)	.0450 (1.14)	.0464 (1.18)	3.67 (5.46)

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.

The TE logo, Tyco Electronics and Raychem 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

TABLE II. PERFORMANCE DETAILS		
PART NUMBER 1/	BEND TESTING	
	MANDREL DIAMETER (inch) (mm) (± 3%)	WEIGHT (lb) (kg) (± 3%)
	CROSSLINK VERIFICATION	CROSSLINK VERIFICATION
FLHTA0311-26-*	.375 (9.53)	.125 (.057)
FLHTA0311-24-*	.375 (9.53)	.500 (.227)
FLHTA0311-22-*	.500 (12.7)	.750 (.340)
FLHTA0311-20-*	.500 (12.7)	1.00 (.454)

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

VOLTAGE RATING: 600 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, 6.0 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 in. (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

PART NUMBER:

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

1/ Example: AWG 22, white: FLHTA0311-22-9

AWG 22, white with black stripe: FLHTA0311-22-90

1/ See footer section on page 1