

SPECIFICATION CONTROL DRAWING

FLHT+0311

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

Date
7-21-14

Revision
Z

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.

CONDUCTOR - TIN-COATED COPPER

INSULATION - RADIATION-CROSSLINKED,
MODIFIED ETFE

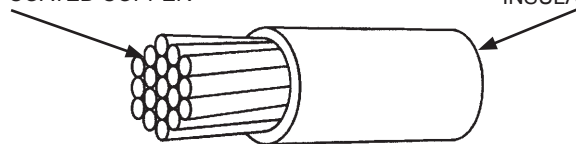


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG) or (number x SEOD) (inch) (mm)	NOMINAL CONDUCTOR DIAMETER (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	
FLHTB0311-18-*	18	7 x 26	.047 (1.19)	7.06 (23.2)	.0584 (1.48)	.0601 (1.53)	.0618 (1.57)	5.95 (8.85)
FLHTB0311-16-*	16	7 x 24	.060 (1.52)	4.45 (14.6)	.0731 (1.86)	.0750 (1.91)	.0769 (1.95)	9.75 (14.5)
FLHTB0311-14-*	14	7 x .0242 (.615)	.073 (1.85)	2.90 (9.51)	.0865 (2.20)	.0886 (2.25)	.0907 (2.30)	14.6 (21.7)
FLHTC0311-26-*	26	19 x 38	.019 (.483)	45.8 (150.)	.0301 (.765)	.0315 (.800)	.0329 (.836)	1.27 (1.89)
FLHTC0311-24-*	24	19 x 36	.024 (.610)	28.7 (94.2)	.0351 (.892)	.0365 (.927)	.0379 (.963)	1.85 (2.75)
FLHTC0311-22-*	22	19 x 34	.030 (.762)	18.1 (59.4)	.0411 (1.04)	.0425 (1.08)	.0439 (1.12)	2.74 (4.08)
FLHTC0311-20-*	20	19 x 32	.038 (.965)	11.4 (37.4)	.0491 (1.25)	.0505 (1.28)	.0519 (1.32)	4.17 (6.21)
FLHTC0311-18-*	18	19 x 30	.047 (1.19)	7.15 (23.5)	.0583 (1.48)	.0600 (1.52)	.0617 (1.57)	6.34 (9.43)
FLHTC0311-16-*	16	19 x 29	.053 (1.35)	4.82 (15.8)	.0656 (1.67)	.0675 (1.71)	.0694 (1.76)	8.09 (12.0)
FLHTC0311-14-*	14	19 x 27	.066 (1.68)	3.05 (10.0)	.0799 (2.03)	.0820 (2.08)	.0841 (2.14)	12.5 (18.6)
FLHTC0311-12-*	12	19 x 25	.090 (2.29)	1.92 (6.30)	.1035 (2.63)	.1060 (2.69)	.1085 (2.76)	22.4 (33.3)
FLHTD0311-14-*	14	37 x 30	.068 (1.73)	3.22 (10.6)	.0819 (2.08)	.0840 (2.13)	.0861 (2.19)	14.5 (21.6)
FLHTD0311-12-*	12	37 x 28	.085 (2.16)	2.01 (6.59)	.0984 (2.50)	.1010 (2.57)	.1036 (2.63)	19.3 (28.7)
FLHTD0311-10-*	10	37 x 26	.107 (2.72)	1.26 (4.13)	.121 (3.07)	.125 (3.18)	.129 (3.28)	30.7 (45.7)
FLHTE0311-8-*	8	133 x 29	.160 (4.06)	.701 (2.30)	.175 (4.45)	.180 (4.57)	.185 (4.70)	54.9 (81.7)

Due to UL limitations on the usage of small strand bare and tin plated conductors, products with conductor strand diameters less than .015 inch (.381 mm) are intended for dry locations only. For wet locations, other UL recognized products are available.

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>	BEND TESTING	
	MANDREL DIAMETER (inch) (mm) (± 3%)	WEIGHT (lb) (kg) (± 3%)
	CROSSLINK VERIFICATION	CROSSLINK VERIFICATION
FLHTB0311-18-*	.500 (12.7)	1.00 (.454)
FLHTB0311-16-*	.750 (19.1)	1.50 (.680)
FLHTB0311-14-*	1.00 (25.4)	2.00 (.907)
FLHTC0311-26-*	.375 (9.53)	.125 (.057)
FLHTC0311-24-*	.375 (9.53)	.500 (.227)
FLHTC0311-22-*	.500 (12.7)	.750 (.340)
FLHTC0311-20-*	.500 (12.7)	1.00 (.454)
FLHTC0311-18-*	.500 (12.7)	1.00 (.454)
FLHTC0311-16-*	.750 (19.1)	1.50 (.680)
FLHTC0311-14-*	1.00 (25.4)	2.00 (.907)
FLHTC0311-12-*	1.50 (38.1)	3.00 (1.36)
FLHTD0311-14-*	1.00 (25.4)	2.00 (.907)
FLHTD0311-12-*	1.50 (38.1)	3.00 (1.36)
FLHTD0311-10-*	2.00 (50.8)	3.00 (1.36)
FLHTE0311-8-*	3.00 (76.2)	4.00 (1.81)

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:

AWG 26-16: .0055 inch (.140 mm) (minimum), .006 inch (.152 mm) (minimum average)

AWG 14: .006 inch (.152 mm) (minimum), .0065 inch (.165 mm) (minimum average)

AWG 12: .0065 inch (.165 mm) (minimum), .007 inch (.178 mm) (minimum average)

AWG 10: .007 inch (.178 mm) (minimum), .0075 inch (.191 mm) (minimum average)

AWG 8: .0075 inch (.191 mm) (minimum), .008 inch (.203 mm) (minimum average)

SHRINKAGE: 200°C for 1 hour, 0.125 inch (3.18 mm) (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

SPOOL LABEL: All spool/reel labels containing conductor strand diameters less than .015 inch (.381 mm) shall include " For Dry Locations Only "

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 table).

B = 7 Strands C = 19 Strands D = 37 Strands E = Rope Lay

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

Example: AWG 18, 19 strands, white: FLHTC0311-18-9

AWG 18, 19 strands, white with a black stripe: FLHTC0311-18-90

1/ See footer section on page 1

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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