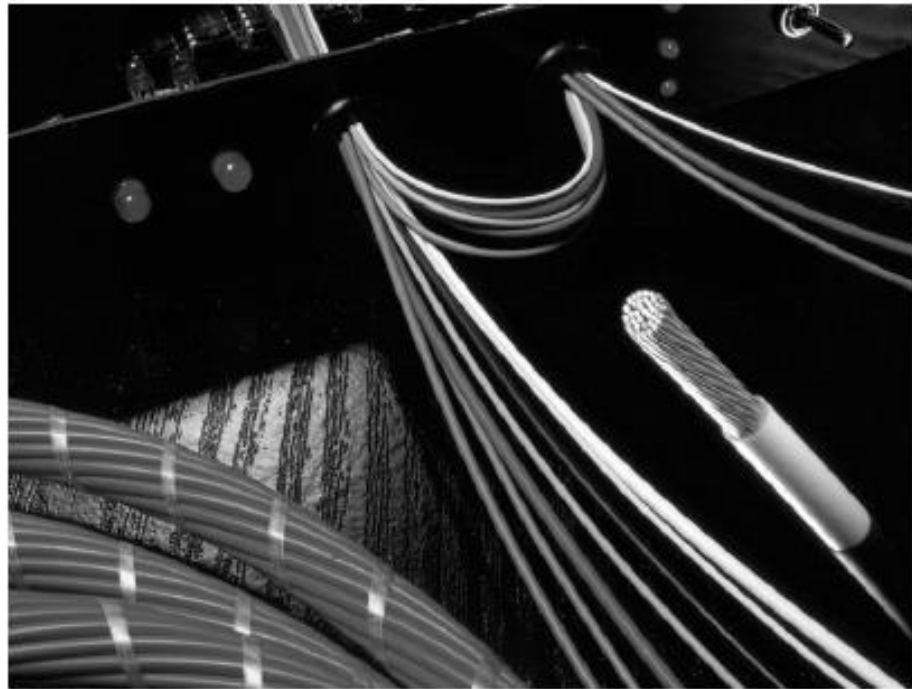


FlexLite Commercial Wire

Available In:

- Americas ■
- Europe ■
- Asia Pacific ■



Selection Guide

Application	Temperature Rating (°C/°F)	Features and Benefits	Product Name
Intermittent-duty motors and heating elements	-45°C to 125°C -49°F to 257°F	<ul style="list-style-type: none"> ■ Insulation that does not melt and flow at high temperatures ■ Excellent chemical resistance ■ VW-1 	FlexLite DW
Electronics, appliance, and motor applications	-55°C to 135°C -67°F to 275°F	<ul style="list-style-type: none"> ■ Small size, light weight ■ No plasticizers or corrosive outgassing 	FlexLite TW
General purpose commercial and industrial	150°C	<ul style="list-style-type: none"> ■ Excellent shop handling ■ Excellent chemical resistance ■ Non-melting insulation ■ Insulation does not melt and flow at high temperature 	FlexLite CW
Lighting, motor applications	-55°C to 200°C -67°F to 392°F	<ul style="list-style-type: none"> ■ VW-1 ■ Excellent shop handling ■ No cold-flow problems 	FlexLite HT
Lighting, appliances, motors	-65°C to 250°C -85°F to 482°F	<ul style="list-style-type: none"> ■ Very high temperature ■ VW-1 ■ Superb chemical resistance ■ Excellent shop handling 	FlexLite TX

FlexLite/UL Style Cross-Reference

UL Marking and Labeling

All FlexLite products are UL labeled and reel marked. UL surface marking is additional. Please contact TE for further information.

Primary Wire

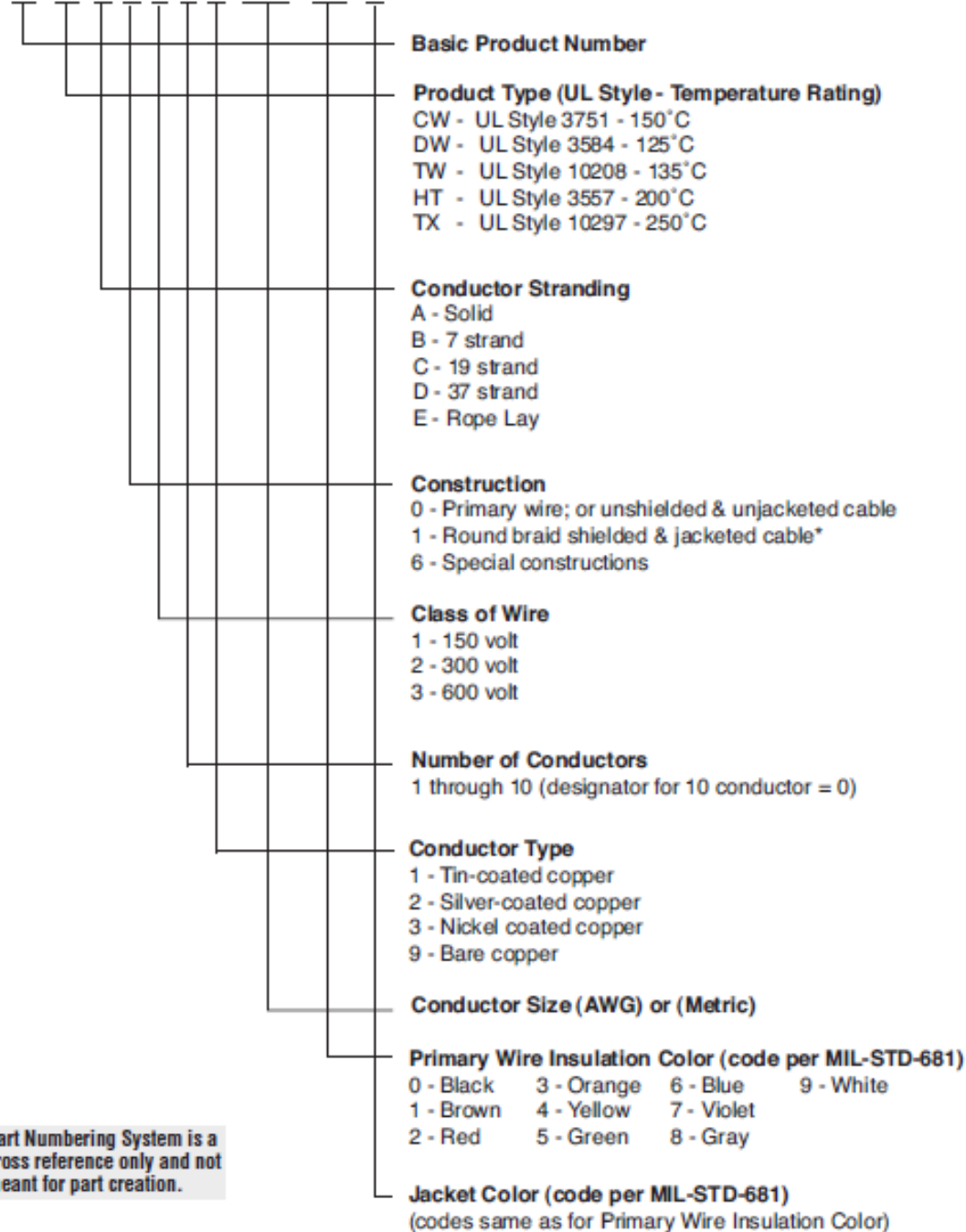
Product	UL Style	Temperature Rating	Voltage Rating	AWG Range	Part Description
FlexLite DW*	3584	125°C [257°F]	600 volts	14-26	FLDWX031X
FlexLite TW	10208	135°C [275°F]	600 volts	10-28	FLTWX031X
FlexLite CW	10916	150°C [302°F]	600 volts	0.35mm~2.50mm ²	FLCW0219& 0211
FlexLite HT*	3557	200°C [392°F]	600 volts	12-26	FLHTX031X
FlexLite TX	10297	250°C [482°F]	600 volts	10-26	FLTX031X

Note: Additional UL-recognized cable constructions are available. Please contact TE for details.
*Available in both metric and imperial sizes.

FlexLite (Continued)

Part Numbering System

FL XX X X X X X - Size - X/X - X



Part Numbering System is a cross reference only and not meant for part creation.

*Shield coating same as conductor coating

Typical ordering example	19 strand, 20 AWG tin-coated copper, two component, shielded and jacketed cable, 600 volt, blue and white components, white jacket; part number FLDWC1321-20-6/9-9.
Ordering Information	For product requiring CUH (Canadian UL) or CSA marking part numbering descriptions above MIGHT NOT apply. Please contact TE for further information.

Catalog 1654025 Revised 5-12 www.te.com	Dimensions are shown for reference purposes only. Specifications subject to change.	Dimensions are in millimeters unless otherwise specified. USA: +1 (800) 522-6752	Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999	UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015
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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

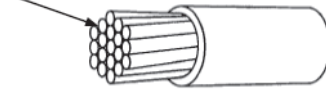


TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG) or (number x SEOD) (inch) (mm)	NOMINAL CONDUCTOR DIAMETER (inch) (mm)	MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	FINISHED WIRE			NOMINAL WEIGHT (lbs/1000 ft.) (kg/km)
					DIAMETER (inch) (mm)			
					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-881. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.		
Page 1 of 2	Raychem, TE Connectivity, TE connectivity (logo), and TE (logo) 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: 1-650-361-6287

TABLE II. PERFORMANCE DETAILS		
PART NUMBER 1/	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