

Specification Control Drawing HIGH TEMPERATURE HOOKUP WIRE, TIN PLATED COPPER, RADIATION-CROSSLINKED, MODIFIED ETFE INSULATED, 200°C, 600 VOLT

FLHTC0311 Issue 7 28th March 2013

Page 1 of 2
Page 2 is for internal use only

The complete requirements for procuring the wire described herein shall consist of this document, the issue in effect of Test Regime WSD 3106 (UK), WCD3106, UL Subject 758, Style 3557, File E38136 and carries UL labels to this effect.

Conductor		Jacket - Radiation Crosslinked Modified ETFE

Part	Nominal	Conductor	Conc	Conductor				FINISHED WIRE				
Description	CSA	Stranding	Diameter		Maximum	Diameter (mm)		Nominal	Crosslink			
	(mm²)	No./ Diam.	(mm)		Resistance	Lower		Upper	Weight	eight Verification Test		
		(mm)	, ,		@ 20°C	Spec	Target	Spec	(kg/ km)	Mandrel OD	Weight	
			Min.	Max.	(ohms/ km)	Limit		Limit		(mm) (±3%)	(kg) (±3%)	
FLHTC0311-0.25-*	0.25	19/0.13	0.55	0.63	83.3	0.96	1.00	1.03	2.95	9.5	0.23	
FLHTC0311-0.35-*	0.35	19/0.15	0.74	0.76	52.2	1.12	1.16	1.19	4.22	13	0.36	
FLHTC0311-0.50-*	0.50	19/0.19	0.86	0.88	40.1	1.24	1.27	1.31	5.59	13	0.50	
FLHTC0311-0.75-*	0.75	19/0.23	1.05	1.08	24.7	1.43	1.47	1.51	7.95	13	0.50	
FLHTC0311-1.00-*	1.00	19/0.25	1.17	1.26	20.0	1.58	1.62	1.66	9.9	13	0.50	
FLHTC0311-1.50-*	1.50	19/0.32	1.35	1.58	13.7	1.82	1.87	1.92	15.7	19	0.68	
FLHTC0311-2.00-*	2.00	19/0.36	1.66	1.79	9.7	2.05	2.10	2.16	18.7	25	0.91	
FLHTC0311-2.50-*	2.50	19/0.41	1.85	2.01	8.2	2.24	2.31	2.38	24.6	38	1.36	

PART DESCRIPTION: The ** in the part description shall be replaced by a standard colour code designator,

e.g. FLHTC0311-1.50-9 is 1.50mm², white insulation

INSULATION THICKNESS: Sizes 0.25 - 2.00 0.15 mm minimum; 0.165 mm (minimum average)

Size 2.50 0.165 mm minimum; 0.178 mm (minimum average)

ADDITIONAL REQUIREMENTS: Crosslink Verification: Time/ temperature - WCD3106 clause 3.3.4; voltage withstand - 2.5 kV;

mandrels and weights as shown

Insulation Tensile Strength: 37.7 N/mm² minimum Insulation Elongation: 100% minimum

Deformation Test: To UL Factory Inspection Procedure, Subject 758 (Page 40), Style 3557 at 200°C

T2/T1 minimum = 0.80

Thermal Stability: 7 days @ 232°C; Insulation elongation 60% minimum,

Insulation Tensile Strength 34.5 N/mm² minimum

Shrinkage: 3 mm maximum at each end at 200°C/1 hour

Insulation Resistance: 1524 Mohm.km minimum

Spark Test: 8.0 kV Impulse

Spark rest. 6.0 kV impuls

Tyco Electronics UK Ltd Faraday Road Dorcan SWINDON SN3 5HH Tel: +44 (0)1793 528171 Fax: +44 (0)1793 572516 TE Connectivity is a trading name of Tyco Electronics UK Ltd, which is registered in England and Wales, number 550926. Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH Website: www.te.com

This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, duplication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited.

This specification sheet takes precedence over documents referenced herein. As Tyco Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.