

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

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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 Tin Plated Copper	Jacket - Radiation Crosslinked Modified ETFE
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Part	Nominal	Conductor	Cond	Conductor				FINISHED WIRE				
Description	CSA	Stranding	Diameter		Maximum	Diameter (mm)		Nominal	Crosslink			
	(mm²)	No./ Diam.	(mm)		Resistance	Lower		Upper Weight		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

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