



1. 说明 Description:

额定温度 Rated temperature: 125°C

额定电压 Rated Voltage: 600V

绝缘体 Insulation: 交联聚烯烃绝缘 (XL PE Insulation)

导体 Conductor: 镀锡或裸铜线 30AWG-2000kcmil (Tinned/ Bare copper 30AWG-2000kcmil)

标准 Standard: UL758、UL1581、CSA

标志 Marking: E211048 AWM STYLE 3271 NO. AWG 125°C 600V XLPE QIFURUI AWM I A 125°C 600V FT2 -LF-
OR: E211048 AWM STYLE 3271 NO. AWG 125°C 600V XLPE QIFURUI 221756 CSA AWM I A 125°C 600V FT2 -LF-

2. 应用 Application:

一般商用电子、电子电器及设备仪器内部连接线、电机变压器和灯具引出线等环境温度不超过 125°C 场合。

For general purchase internal wiring of appliances and electronic equipments lead wires of motors and lamps where exposed to temperatures not Exceeding 125°C.

3. 订货资料 Order Reference:

可选颜色: 黑、白、红、黄、绿、蓝、棕、黄/绿, 特殊颜色可定制;

Colors available: Black、white、red、yellow、green、blue、yellow/green, special color can be order;

规格选择: 参照表格, 特殊规格可定制。Specification available: Reference to specification table, special Specification also can be ordered.

型号 Type	规格 AWG	导体结构 Conductor size (No./ mm) ±0.005mm	导体电阻 Conductor resistance 20°C (Ω /Km)	导体外径 Conductor Dia.(mm)	绝缘厚度 Insulation thickness (mm)		完成外径 Overall diameter (mm)		包装 package ft/roll
					Nom.	Min.	Average	Tolerance	
3271	10	105/0.254	3.54	3.00	0.80	0.69	4.60	±0.15	500
	12	65/0.254	5.64	2.36	0.80	0.69	3.95	±0.15	1000
	14	41/0.254	8.96	1.88	0.80	0.69	3.50	±0.15	1000
	16	26/0.254	14.60	1.50	0.80	0.69	3.10	±0.10	1000
	18	16/0.254	23.20	1.17	0.80	0.69	2.75	±0.10	2000
	20	21/0.18	36.70	0.95	0.80	0.69	2.55	±0.10	2000
	22	17/0.16	59.40	0.76	0.80	0.69	2.35	±0.10	2000
	24	11/0.16	94.20	0.61	0.80	0.69	2.20	±0.10	2000



	26	7/0.16	150.00	0.48	0.80	0.69	2.08	±0.10	2000
	28	7/0.127	239.00	0.38	0.80	0.69	1.98	±0.10	2000
	30	7/0.10	381.00	0.30	0.80	0.69	1.90	±0.10	2000

4. 测试标准 Test Standard: UL758/UL1581-2006

电气性能 Electrical Properties:			
介电耐压测试 Dielectric Strength Test	测试时间 1 分钟, 2000V 电压不击穿 All specimen shall be withstand 2000V for 1 minute no breakdown		
火花测试 Spark test	测试时间 0.18 秒钟, 测试电压: 6000 V AC, 试验后不击穿 Test time 0.18 second, Test voltage: 6000 V AC, no breakdown		
物理性能 Physical performance			
绝缘物理性能, 未老化和空气烘箱老化 Insulation physical properties, Unaged and after air oven aged	老化前 Unaged	抗拉强度 Tensile strength	≥13.8 Mpa
		伸长率 Elongation percent	≥300 %
	老化条件: 158±2℃ 7 天 Aged in a full draft circulation air oven for 158±2℃ 168 Hours	抗拉强度 Tensile strength	老化前值的 80% minimum percent of unaged values 80%
		伸长率 Elongation percent	老化前值的 80% minimum percent of unaged values 80%
热冲击试验 Heat shock test	烘箱老化 158±1℃/1 小时 Oven temperature 158±1℃ /1 hrs	绝缘不开裂 The sample shall not show any crack on the surface	
热变形试验 Deformation test	烘箱老化 121±1℃/1 小时, Oven temperature 121±1℃ /1 hrs	绝缘厚度减少率不超过 50% The thickness of insulation shall not decrease more than 50%	
冷弯曲试验 Cold bend test	-10±2℃ 低温处理 4 小时, 试棒直径为电线直径的 2 倍 (OD×2), 卷绕 6 圈。 Refrigerator temperature -10 ± 2℃ /4 hrs, mandrel diameter OD×2, 6 turns.	绝缘不开裂 The sample shall not show any crack on the surface	
燃烧试验 Flame test	FT2 燃烧试验 FT2 Flame test	不沿其长度传播火焰, 不向附近的可燃物质传播火焰 Shall not convey flame along its length, shall not convey flame to combustible materials in its vicinity	
有害物质检测 Hazardous Material test			



有害物质检测 ROHS test	符合 ROHS ROHS compliance
---------------------	----------------------------

Warning: Over 90°C, when the xlpe wires fit together, The insulation will come into slight conglutination, after soaking lacquer and roast the insulation come into middling conglutination,, or the insulation splite.

警告： 在超过 90°C 温度下，XLPE 料线组装并在一起会产生轻微粘连现象，浸漆烘烤后会产生中度粘连， 严重时会发生开裂现象 。