

鼎泰豐電線電纜股份有限公司

DING TAI FENG ELECTRIC WIRE & CABLE IND. CO., LTD.

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產品規格書

本公司電腦檔號
(Program code) :

1015

20 #

-(顏色)

品名(Model):

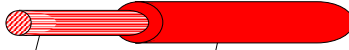
鍍錫銅UL電子線 Tinned copper UL SingleWire

1015 20# Single wire

規格(Specifications):

UL/CSA : 105°C , 600 Vac , 750 Vdc ,

0.53mm²



構造圖(Constructional drawing):

導體
conductor

絕緣
insulation

一. 構造STRUCTURE

項目 item	材 質 Material	規 格 Spec.				最小厚度 Minimum thickness	最大厚度 Maximum thickness	標準厚度 Standard thickness	完成外徑範圍 Completes the outer diameter scope		標準完成 外徑 Standard the outer diameter
導 體 Conductor	軟銅絞線 Soft copper stranded wire	0.180mm	±	0.01mm	/21條	-	-	-	0.90	~1.01mm	0.95mm
絕 緣 體 Insulation	PVC	軟質ROHS Soft & conforms to the ROHS test				0.726mm	0.836mm	0.781mm	2.35	~2.68mm	2.52mm

二. 電氣特性: Electric properties

項目 Item.	規格 Spec.
額定電壓溫度 Specified voltage and temperature	UL/CSA : 105°C , 600 Vac , 750Vdc.
火花試驗 Spark test	5 KV不穿破 The insulation must be withstand 5 KV high-tension current
耐電壓(20°C) Insulation potengial strengh (20°C)	AC水中3000V/min. 3000V/min (for water's environment)
最小絕緣電阻(20°C) Minimum insulation resistance (20°C)	DC500V 15 MΩ-KM 以上↑
最大導體電阻(20°C) Max.conductor resistance Ohm/KM (20°C)	39.50 Ω/KM以下↓
容許電流(40°C) Admit Max. current (40°C)	約 13.1 A以下

三. 物理特性: Physical properties

項目 Item	絕緣體 Insulation
耐燃試驗 Based on standard of flammability material testing	依UL Subj.758規定合格之。According for UL Subj.758 list spec. 依CSA 規定合格之。According for CSA list spec
老化前試驗 Before of aging test	絕緣抗張強度 kg/mm ² Insulation tensile strength test kg/mm ²
	1500psi ↑
老化後試驗 After of aging test	絕緣伸長率% Insulation elongation test rate %
	100% ↑
老化後試驗 After of aging test	絕緣抗張殘率% Insulation tensile remnant rate %
	老化後(136°C,168小時)為老化前值70% 以上 This amount must be above 70% Afeter heat ageing (136°C,168hrs)
老化後試驗 After of aging test	絕緣伸長殘率% Insulation elongates remnant rate %
	老化後(136°C,168小時)為老化前值65% 以上 This amount must be above 65% Afeter heat ageing (136°C,168hrs)
加熱變形試驗 Heating distortion test	溫度120°C,1小時,不可變形 The test temperature must amount for 1hour for 120°C the time then the wire cannot be distorted.
熱衝擊試驗 Thermo shock test	溫度120°C,1小時不龜裂 The insulation face must be no cracked, high temperature at 120°C for 1hour.
冷彎試驗 Cold bending test	溫度-40°C,3小時,通電1000V,1分鐘後不可龜裂 The insulation face must be no cracked, cooled at -40°C for 3hour and bent, to withstand 1000V for 1min.
耐油試驗 Oil resistance	浸於80°C油中4小時,彎曲後需耐1000V1分鐘 Immersed in oil at 80°C for 4h and bent, to withstand 1000V for 1min.

四. 印字 : Print list :	芯線 Insulation part	E309530 1015 20AWG 105°C 600V TYC CSA 301301 I A 20 AWG 105°C 600V FT1 FT2 ROHS	字組數 : The amount of printing	2組字體	字高 : The height of printing	0.9mm
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