

鼎泰豐電線電纜股份有限公司

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

工廠部門(電線生產部門):

Factory Division (Wire & Cable)/(Escootor)

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認 證 用 規 格 書

SPECIFICATION FOR APPROVAL

本公司電腦檔號
(Program code):

- P 1015

18 #

-(顏色)

-包裝數量

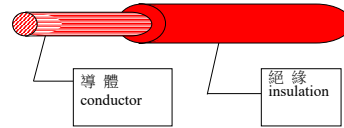
品名(Model):

鍍錫銅UL電子線 Tinned copper UL SingleWire

規格(Specifications):

UL/CSA : 105°C , dry, 75°C wet, 600 V, 18#

構造圖(Constructional drawing):



1. 導體：導體為電器、車類、電子、電腦等用軟銅線，其可分為裸銅或鍍錫之單芯線或絞線及先絞後鍍錫線。

(Wire' s conductor Material is soft and high purity' s Copper ,just for Electronic , Car , CoMputer..... use).

There are Copper or tinned Copper' s products to be solid or stranded Mode)

2. 絕緣體：絕緣體為軟質PVC，其厚度、外徑如構造表。

(Wire' s Material is for Pvc insulation, and thickness or O.D. just indicate the following:)

3.構造表：STRUCTURE & ELECTRIC PROPERTIES：

一. 構 造：STRUCTURE

規 格 Specifications			導 體 Conductor								絕 緣 體 Insulation				導體電阻 MaxiMuM Conductor Resistance (20℃)
AWG	實質平方 數(mm²)	市上慣稱平 方數(mm²) Commonly know on the market	構 造 Structure								標準絞合 外徑 Stranded diameter	最小厚度 MiniMuM thickness	標準厚度 Sdandard thickness	外 徑 O.D.	
18#	0.87		0.180mm	/34	*	*	±	0.004mm	T	1.213mm	0.73mm	0.750mm	2.80mm ± 0.10mm	24.400 Ω/KM以下↓	
註：導體(Conductor)：			S 為裸銅線 S is original copper		T 為鍍錫線 T is for tinned copper				TC為先絞後鍍錫線 TC is for tinned copper after stranded				N為單蕊銅 N is for single solid copper		

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N為單芯銅

N is for single solid copper

註：因使用環境周圍溫度、使用產品負載溫度、使用連續性或斷續性、絕緣塑化原材料等條件，會產生遞減介質數而影。

上列容許電流僅供參考。請於設計使用時依電工法規計算後再視影響條件決定。

Here to advise the above Allow Current just for reference, must be according the fact test value.

二. 電氣特性：Electric properties

項目 item	規 格spec
額定電壓溫度、規範 Specified voltage and temperature & standard	UL/CSA : 105°C, 600 Vac, 750Vdc. / ROHS / RECH
火花試驗 Spark test	5 KV不穿破 The insulation Must be withstand 5 KV high-tension current
耐電壓 Insulation potengial strengh	AC水中2000V/Min. 2000V/Min (for water's environMent)
最小絕緣電阻 MiniMuM insulation resistance	20°C, DC500V 15 MΩ·KM 以上↑

三. 物理特性: Physical properties

項目 item	規 格spec
耐 燃 試 驗 規 範 Based on standard of flammability Material testing	依UL Subj.1581之VW-1規定合格之。According for UL Subj.1581 list VW-1 spec. 依CSA C22.2 NO.16規定合格之。According for CSA C22.2 NO.16 list spec
老化前試驗 Before of aging test	絕緣抗張強度 kgf/mm ² Insulation tensile strength test kgf/mm ² 1500psi ↑
	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)
	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 Heat resistance	溫度120°C,120小時，通電1,000V,1分鐘後不可龜裂 The insulation face Must be no cracked, heated at 120°C for 120h and bent. To withstand 1000V for 1min.
熱衝擊試驗 Thermo shock test	溫度120°C,1小時，通電1,000V,1分鐘後不可龜裂 The insulation face Must be no cracked, high temperature at 120°C for 1hour and bent, to withstand 1,000V for 1Min.
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1000V、1分鐘 Immersed in oil at 80°C for 4h and bent, to withstand 1000V for 1Min.

四. 印字：

E309530



AWM 1015 18 AWG 105°C 600V TYC CSA 301301 AWM I A/B 18 AWG 105°C 600V FT1 FT2 ROHS

電流表僅供參考，因最大容許電流無法用測試方式取得。

建議使用範圍以所之提供值之70~80%為原則，

再依市售線材之截面積是否足？再降折使用之較為安全！