

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): 桃園市蘆竹區長榮路165號(台茂百貨正後方)
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認 證 用 規 格 書
SPECIFICATION FOR APPROVAL本公司電腦檔號
(Program code):- P 1015
1015N

- #

-(顏色)

-包裝數量

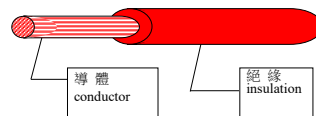
品名(Model):

鍍錫銅UL電子線 Tinned copper UL SingleWire

規格(Specifications):

UL/CSA : 105℃, dry, 75℃ wet, 600 V, **22#~10#**

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 & ELCTRIC 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(mm^2)	市上慣稱平方 數(mm^2) Commonly know on the market	構 造 Structure								最小厚度 MiniMuM thickness	標準厚度 Sdandard thickness	外 徑 O.D.				
10#	5.32		0.254mm	/105	*	*	*	±	0.004mm	T	3.007mm	0.95mm	1.045mm	5.10mm	±	0.15mm	3.739Ω/KM以下
12#	3.29		0.254mm	/65	*	*	*	±	0.004mm	T	2.366mm	0.75mm	0.815mm	4.00mm	±	0.10mm	6.240Ω/KM以下
14#	2.08		0.254mm	/41	*	*	*	±	0.004mm	T	1.879mm	0.75mm	0.810mm	3.50mm	±	0.10mm	9.900Ω/KM以下
16#	1.32		0.254mm	/26	*	*	*	±	0.004mm	T	1.496mm	0.74mm	0.800mm	3.10mm	±	0.10mm	15.600Ω/KM以下
18#	0.87		0.180mm	/34	*	*	*	±	0.004mm	T	1.213mm	0.73mm	0.750mm	2.80mm	±	0.10mm	24.400Ω/KM以下
20#	0.53		0.180mm	/21	*	*	*	±	0.004mm	T	0.953mm	0.76mm	0.780mm	2.60mm	±	0.10mm	39.500Ω/KM以下
22#	0.34		0.160mm	/17	*	*	*	±	0.004mm	T	0.762mm	0.76mm	0.770mm	2.40mm	±	0.10mm	62.500Ω/KM以下
18#	0.83	單芯	1.030mm	/1	*	*	*	±	0.015mm	T-N	1.030mm	0.78mm	0.825mm	2.70mm	±	0.10mm	23.600Ω/KM以下
20#	0.53	單芯	0.820mm	/1	*	*	*	±	0.012mm	T-N	0.820mm	0.73mm	0.775mm	2.40mm	±	0.10mm	37.000Ω/KM以下
22#	0.33	單芯	0.650mm	/1	*	*	*	±	0.012mm	T-N	0.650mm	0.77mm	0.825mm	2.30mm	±	0.10mm	60.100Ω/KM以下

註：導體(Conductor)：

S為裸銅線
S is original copper

T為鍍銅線
S is for tinned copper

TC為先絞後鍍銅線
TC is for tinned copper after stranded

N為單芯銅
N is for single solid copper

註: 導體(Conductor):

S 為裸銅線
S is original copperT 為鍍錫線
T is for tinned copperTC為先絞後鍍錫線
TC is for tinned copper after strandedN為單蕊銅
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℃, 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℃, 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 ↑
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℃,168小時)為老化前值70% 以上 This aMount Must be above 70% Afeter heat ageing (136℃,168hrs)
老化後試驗 After of aging test	絕緣伸長殘率% Insulation elongates remnant rate %
	老化後(136℃,168小時)為老化前值65% 以上 This aMount Must be above 65% Afeter heat ageing (136℃,168hrs)
加熱變形試驗 Heat resistance	溫度120℃,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℃ for 120h and bent. To withstand 1000V for 1min.
熱衝擊試驗 Thermo shock test	溫度120℃,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℃ for 1hour and bent, to withstand 1,000V for 1Min.
冷彎試驗 Cold bending test	溫度-40℃, 3小時, 通電1000V, 1分鐘後不可龜裂 The insulation face Must be no cracked, cooled at -40℃ for 3hour and bent, to withstand 1000V for 1Min.
耐油試驗 Oil resistance	浸於80℃油中4小時, 彎曲後需耐1000V、1分鐘 Immersed in oil at 80℃ for 4h and bent, to withstand 1000V for 1Min.

四. 印字:

E309530



AWM 1015 __AWG 105℃ 600V TYC CSA 301301 AWM I A/B __AWG 105℃ 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!