

鼎泰豐科技集團股份有限公司  
D T F TECH GROUP  
台灣總機股份有限公司  
TAIWAN YI CHENG CO., LTD  
鼎泰豐電線電纜股份有限公司  
DING TAI FENG ELECTRIC WIRE & CABLE IND. CO., LTD.

公司(外貿部門): International  
Division  
工廠部門(電線生產部門):  
Factory Division (Wire &

桃園市蘆竹區長榮路165號(台茂百貨正後方)  
No.165, Changrong Rd., Luzhu Township, Taoyuan County 33859, Taiwan (R.O.C.)  
桃園市蘆竹區長榮路165號(台茂百貨正後方)  
No.165, Changrong Rd., Luzhu Township, Taoyuan County 33859, Taiwan (R.O.C.)

TEL: 03-312-9090

FAX: 03-312-9826

認 證 用 規 格 書  
SPECIFICATION FOR APPROVAL

本公司電腦檔號  
(Program code):

KIV

導體尺寸/  
導體數量

-(顏色)

-包裝數量

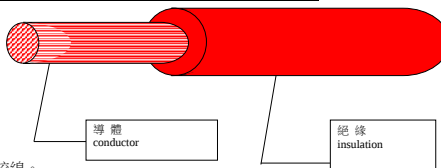
品名(Model):

PVC 細蕊花線 PVC soft conductor Wire for machinal、control panel.

規格(Specifications):

105℃，600 V, 80mm<sup>2</sup>

構造圖(Constructional drawing):



1. 導體: 導體為電器、車類、機械、控制配盤等用軟銅線, 其可分為單芯線或絞線。  
(Wire's conductor material is soft and high purity's Copper just for Electronic、Car、Machine、Control panel、... use.  
The 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<br>Specifications |                      |                                              | 導 體<br>Conductor |     |   |    |   |   |        |                                    |                             |                              | 絕 緣 體<br>Insulation |         |   |        | 最大導體電阻<br>Maximum<br>Conductor<br>Resistance<br>Ω/km<br>(20℃) | 最小絕緣電阻<br>Minimum Insulation<br>Resistance<br>M Ω/km<br>(20℃) | 容許電流<br>Allow<br>Current/A/40℃ |
|----------------------|----------------------|----------------------------------------------|------------------|-----|---|----|---|---|--------|------------------------------------|-----------------------------|------------------------------|---------------------|---------|---|--------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|
| 線種材質<br>Material     | 實質平方<br>方數<br>(mm^2) | 市上慣稱<br>平方數<br>(mm^2)<br>Commonly<br>know on | 構 造<br>Structure |     |   |    |   |   |        | 標準絞<br>合外徑<br>Stranded<br>diameter | 最小厚<br>Minimum<br>thickness | 標準厚<br>Sdandard<br>thickness | 外 徑<br>O.D.         |         |   |        |                                                               |                                                               |                                |
| KIV                  | 79.91                | 80                                           | 0.254mm          | /83 | * | 19 | * | ± | 0.01mm | S                                  | 11.66mm                     | 2.60mm                       | 2.880mm             | 17.50mm | ± | 0.20mm | 0.252 Ω/KM以下↓                                                 | 30 MΩ-Km 以上↑                                                  | 295                            |

註: 導體(Conductor)  
S 為裸銅線  
S is original copper

N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響。  
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<br>Specified voltage and temperature & standard | CNS 6070 C2077, -20℃~105℃, 600 V                                                                                   |
| 火花試驗<br>Spark test                                        | 80mm <sup>2</sup> : 2.5 KV 不穿破<br>The insulation must be with stand according above situation high-tension current |
| 耐電壓<br>Insulation potengial strength                      | AC水中2,000V/min.<br>2,000V/min ( for water's environment )                                                          |

三. 物理特性: Physical properties

| 項目<br>Item                                                        | 絕緣體<br>Insulation                                                                                                                         |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 耐 燃 試 驗 規 範<br>Based on standard of flammability material testing | 依據CNS 6070 C2077規定 15秒內自動熄滅<br>According for CNS 6070 C2077 Spec. in 15 seconds extinguish spontaneously                                  |
| 老化前試驗<br>Before of<br>aging test                                  | 絕緣抗張強度 kgf/mm <sup>2</sup><br>Insulation tensile strength test kgf/mm <sup>2</sup><br>1 kgf / 9.81MPa以上↑                                  |
| 絕緣伸長率%<br>Insulation elongation test rate %                       | 100% 以上↑                                                                                                                                  |
| 老化後試驗<br>After of<br>aging test                                   | 抗張殘率%<br>Tensile remnant rate<br>老化後(100℃±2℃, 48小時) 老化前85% 以上<br>This amount must be above 85% Afeter heat ageing (100℃±2℃, 48hrs)        |
| 伸長殘率%<br>Elongates remnant rate                                   | 老化後(100℃±2℃, 48小時) 老化前80% 以上<br>This amount must be above 80% Afeter heat ageing (100℃±2℃, 48hrs)                                         |
| 加熱變形試驗<br>Deformation test                                        | 溫度120℃, 1小時, 不可變形<br>The test temperature must amount for 1hour for 120℃ the time then the wire cannot be distorted.                      |
| 熱衝擊試驗<br>Heat shock test                                          | 溫度120℃, 1小時不龜裂<br>This face must be no cracked Afeter heat ageing (121℃, 1hr)                                                             |
| 冷彎試驗<br>Cold bend test                                            | 溫度-40℃, 1小時, 通電1000V, 1分鐘後不可龜裂<br>The insulation face must be no cracked, cooled at -40℃ for 1hour and bent, to withstand 1000V for 1min. |
| 耐油後試驗<br>Oil<br>resistance                                        | 抗張殘率%<br>Tensile remnant rate<br>浸油後(85℃±2℃, 4小時) 浸油前85% 以上<br>This amount must be above 85% Afeter Immersed in oil at 85℃ for 4h         |
| 伸長殘率%<br>Elongates remnant rate                                   | 浸油後(85℃±2℃, 4小時) 浸油前85% 以上<br>This amount must be above 85% Afeter Immersed in oil at 85℃ for 4h                                          |

四. 印字:

KIV 80 mm<sup>2</sup> 105℃ 600V WIRE CSA AWM A/B AWG FT1 301301 ROHS TYC CE

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!