

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

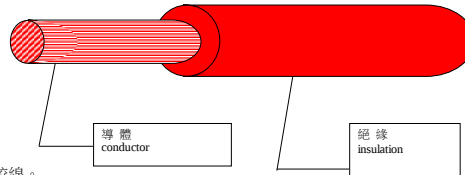
品名(Model):

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

規格(Specifications):

105℃ , 600 V, 14mm<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、Contral 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     | 實質平方數<br>(mm²) | 市上慣稱平方數<br>(mm²)<br>Commonly know on | 構 造<br>Structure |     |   |   |   |   | 標準絞合外徑<br>Stranded diameter | 最小厚<br>Minimum thickness | 標準厚<br>Standard thickness | 外 徑<br>O.D. |                     |        |   |        |                                                               |                                                               |                                |
| KIV                  | 13.83          | 14                                   | 0.254mm          | /39 | * | 7 | * | ± | 0.01mm                      | S                        | 4.85mm                    | 1.23mm      | 1.330mm             | 7.60mm | ± | 0.10mm | 1.550 Ω/KM以下↓                                                 | 40 M Ω-Km 以上↑                                                 | 88                             |

註: 導體(Conductor) S 為裸銅線

N為單蕊銅

S is original copper

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                                        | 14.0mm <sup>2</sup> : 5.0 KV 不穿破<br>The insulation must be with stand according above situation high-tension current |
| 耐電壓<br>Insulation potengial strenght                      | 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 aging test                                     | 絕緣抗張強度 kgf/mm <sup>2</sup><br>Insulation tensile strength test kgf/mm <sup>2</sup> | 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 aging test                                      | 抗張殘率%<br>Tensile remnant rate                                                      | 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 resistance                                           | 抗張殘率%<br>Tensile 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                                           |
|                                                                   | 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 14mm<sup>2</sup> 105℃ 600V WIRE CSA AWM A/B 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!