

鼎泰豐科技集團股份有限公司
D T F TECH GROUP
台灣瑞錫股份有限公司
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 &

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經 證 用 規 格 書
SPECIFICATION FOR APPROVAL

本公司電腦編號
(Program code):

KIV

導體尺寸 / 導體數量 - (顏色) - 包裝數量

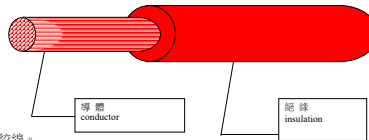
品名(Model):

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

規格(Specifications):

105°C , 600 V, 0.3mm²~100mm²

構造圖(Constructional drawing):



1. 導體: 導體為電器、車輛、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 Specifications			導 體 Conductor							絕 緣 體 Insulation					最大導體電阻 Maximum Conductor Resistance Ω/km (20°C)	最小絕緣電阻 Minimum Insulation Resistance MΩ/km (20°C)	容許電流 Allow Current/A/40°C		
線種材質 Material	實質平方 方數 (mm²)	市上慣稱 平方數 (mm²) Commonly know on	構 造 Structure							標準絞 合外徑 Stranded diameter	最小厚 Minimum thickness	標準厚 Standard thickness	外 徑 O.D.						
KIV	0.51	0.5	0.180mm	/20	*	*	*	±	0.01mm	S	0.93mm	0.51mm	0.580mm	2.10mm	±	0.10mm	36,700 Ω/KM以下↓	90 MΩ-Km 以上↑	5
	0.76	0.75	0.180mm	/30	*	*	*	±	0.01mm	S	1.14mm	0.60mm	0.640mm	2.50mm	±	0.10mm	24,400 Ω/KM以下↓	50 MΩ-Km 以上↑	7
	1.27	1.25	0.180mm	/50	*	*	*	±	0.01mm	S	1.48mm	0.73mm	0.770mm	3.10mm	±	0.10mm	14,700 Ω/KM以下↓	50 MΩ-Km 以上↑	12
	1.87	2.0	0.254mm	/37	*	*	*	±	0.01mm	S	1.79mm	0.73mm	0.800mm	3.40mm	±	0.10mm	9,250 Ω/KM以下↓	50 MΩ-Km 以上↑	27
	3.29	3.5	0.254mm	/65	*	*	*	±	0.01mm	S	2.37mm	0.72mm	0.800mm	4.00mm	±	0.10mm	6,050 Ω/KM以下↓	50 MΩ-Km 以上↑	37
	5.32	5.5	0.254mm	/105	*	*	*	±	0.01mm	S	3.01mm	0.89mm	0.950mm	5.00mm	±	0.10mm	3,800 Ω/KM以下↓	50 MΩ-Km 以上↑	49
	7.80	8	0.254mm	/22	*	7	*	±	0.01mm	S	3.65mm	1.06mm	1.150mm	6.00mm	±	0.10mm	2,310 Ω/KM以下↓	50 MΩ-Km 以上↑	61
	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 MΩ-Km 以上↑	88
	21.28	22	0.254mm	/60	*	7	*	±	0.01mm	S	6.02mm	1.58mm	1.780mm	9.60mm	±	0.20mm	0.824 Ω/KM以下↓	40 MΩ-Km 以上↑	115
	29.79	30	0.254mm	/84	*	7	*	±	0.01mm	S	7.12mm	1.86mm	2.050mm	11.30mm	±	0.20mm	0.550 Ω/KM以下↓	40 MΩ-Km 以上↑	155
	37.95	38	0.254mm	/107	*	7	*	±	0.01mm	S	8.03mm	1.88mm	2.100mm	12.30mm	±	0.20mm	0.510 Ω/KM以下↓	40 MΩ-Km 以上↑	162
	50.06	50	0.254mm	/52	*	19	*	±	0.01mm	S	9.23mm	2.36mm	2.600mm	14.50mm	±	0.20mm	0.392 Ω/KM以下↓	30 MΩ-Km 以上↑	190
	59.69	60	0.254mm	/62	*	19	*	±	0.01mm	S	10.07mm	2.42mm	2.670mm	15.50mm	±	0.20mm	0.315 Ω/KM以下↓	30 MΩ-Km 以上↑	217
	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
	100.13	100	0.254mm	/104	*	19	*	±	0.01mm	S	13.05mm	2.58mm	2.950mm	19.00mm	±	0.30mm	0.170 Ω/KM以下↓	30 MΩ-Km 以上↑	298

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、絕緣體塑化原料等條件, 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 Specified voltage and temperature & standard	CNS 6070 C2077, -20°C~105°C, 600 V
火花試驗 Spark test	0.5~8.0mm ² : 1.5 KV 不穿破 4.0~30.0mm ² : 2.0 KV 不穿破 38.0~100.0mm ² : 2.5 KV 不穿破 The insulation must be with stand according above situation high-tension current
耐電壓 Insulation potengial strength	AC水中2,000V/min. 2,000V/min (for water's environment)

三. 物理特性: Physical properties

項 目 Item	絕 緣 體 Insulation
耐 燃 試 驗 規 範 Based on standard of flammability material testing	依據CNS 6070 C2077規定 15秒內自動熄滅 According for CNS 6070 C2077 Spec. in 15 seconds extinguish spontaneously
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 1 kgf / 9.81MPa以上↑
老化後試驗 After of aging test	絕緣伸長率% Insulation elongation test rate % 100% 以上↑
抗張殘率% Tensile remnant rate	老化後(100°C±2°C, 48小時) 老化前85% 以上 This amount must be above 85% Afeter heat ageing (100°C±2°C, 48hrs)
伸長殘率% Elongates remnant rate	老化後(100°C±2°C, 48小時) 老化前80% 以上 This amount must be above 80% Afeter heat ageing (100°C±2°C, 48hrs)
加熱變形試驗 Deformation 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 Heat shock test	溫度120°C, 1小時不龜裂 This face must be no cracked Afeter heat ageing (121°C, 1hr)
冷彎試驗 Cold bend test	溫度-40°C, 1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 1hour and bent, to withstand 1000V for 1min.
耐油後試驗 Oil resistance	抗張殘率% Tensile remnant rate 浸油後(85°C±2°C, 4小時) 浸油前85% 以上 This amount must be above 85% Afeter Immersed in oil at 85°C for 4h
	伸長殘率% Elongates remnant rate 浸油後(85°C±2°C, 4小時) 浸油前85% 以上 This amount must be above 85% Afeter Immersed in oil at 85°C for 4h

四. 印字:

KIV ____mm² 105°C 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!