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<http://www.100y.com.tw>

Specification 規格書

Product Name 品名 : KIV WIRE 105°C 600V

Specification 規格 : KIV 1.25mm²

No.項次	Item Description (項目)	Value(規格值)	公差
Conductor Structure 導體結構			
1.	Conductor Material (導體材質)	Anneal Bare Copper (裸銅線)	-----
2.	Conductor Structure(導體結構)	0.18mm / 50	± 0.008mm
3.	mm ² x No. (截面積x芯數)	1.25mm ²	-----
Insulation Structure 絕緣層結構			
4.	Insulation Material (絕緣材質)	-----	-----
5.	Insulation Thickness (絕緣厚度)	-----	-----
6.	Inner Wire Diameter (芯線完成外徑)	-----	±0.15mm
7.	Color Code (芯線顏色)	-----	-----
Outside Jacket 外被披覆			
8.	Sheath Material (外被材質)	PVC	-----
9.	Sheath Thickness (外被厚度)	-----	-----
10.	Overall Diameter (總完成外徑)	3.10 mm	± 0.25mm
11.	Sheath Color (外被顏色)	Black (黑)	-----
Electronis Characters 電氣特性			
12.	Conductor Resistance (導體電阻試驗)	15.6 Ω/KM ↓ (20°C)	Max Value
13.	Insulation Resistance (絕緣電阻試驗)	50MΩ/KM ↑ (20°C)	Min Value
14.	Rated Temperature (額定耐溫)	105°C	°C
15.	Rated Voltage (額定電壓)	600V	V
MARK	KIV 1.25mm ² 105°C 600V STANDARD MARK		

Structural Configuration (結構圖):



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Technical information 技術資料

MAP[®] KIV PVC WIRE

Application

MAP[®] KIV pvc wire is protable and flexible, PVC-sheathed used for a wide varietyof industrial applications. Suitable for outdoor use when protected against direct sunlight, and indoors in dry or moist conditions.

Design

Rating 105 deg C , 600 Vac , cable flame FT1
 Design Compliant to CSA Standard
 Conductor Fine wire strands of Bare copper wires reference with VDE Class 5
 Insulation PVC based compound
 Core identification code As Following Table 1 Color code
 Screen Non Shielded
 Outer sheath PVC based compound. Anti-Oil 、 Sun-resistance for optional.

Electrical properties at 20°C

Conductor resistance

Cross section [mm ²]	max [Ω/km]	Cross section [mm ²]	max [Ω/km]
0.75mm ²	24.40	50.0mm ²	0.370
1.25mm ²	14.70	60.0mm ²	0.308
2.0mm ²	9.50	80.0mm ²	0.238
3.5mm ²	5.49	100.0mm ²	0.190
5.5mm ²	3.35	125.0mm ²	0.148
8.0mm ²	2.39	150.0mm ²	0.123
14.0mm ²	1.35	200.0mm ²	0.093
22.0mm ²	0.855	250.0mm ²	0.075
30.0mm ²	0.635	325.0mm ²	0.057
38.0mm ²	0.498		

Specific insulation resistance > 50MΩ / km
 Test voltage 2KVac / minute

Mechanical and thermal properties

Minimum bending radius Fixed installation: 15 x cable Ø
 Temperature range Fixed installation: -10 °C up to +105 °C
 Flammability Flame retardant acc. to CSA FT1
 General requirements This cable is conform to RoHS
 (Restriction of the use of certain hazardous substances)

Table 1. Color code

Core Identification	1C	2C	3C	4C	5C	6C	7C	8C	9C	10C
Insulation. color	Black	White	Red	Green	Yellow	Blue	Gray	Orange	Brown	Violet