

# 鼎泰豐電線電纜股份有限公司

DING TAI FENG ELECTRIC WIRE & CABLE IND. CO., LTD.

TEL:03-3129090

桃園市蘆竹區長榮路165號(台茂百貨正後方)

FAX:03-31298269

No.165, Changrong Rd., Luzhu Township, Taoyuan County 33859, Taiwan (R.O.C.)

## 產品規格書

本公司電腦檔號

(Program code) :

品名(Model):

規格(Specifications):

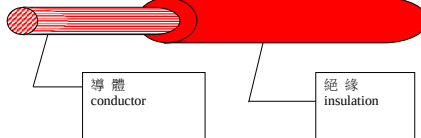
1007

18 #

-(顏色)

-包裝數量

|                                      |                      |
|--------------------------------------|----------------------|
| 鍍錫銅UL電子線 Tinned copper UL SingleWire | 1007 18# Single wire |
| UL/CSA : 80℃ dry, 75℃ wet, 300 V.    | 0.87mm <sup>2</sup>  |



構造圖(Constructional drawing):

### 一. 構造STRUCTURE

| 項目<br>item        | 材質<br>Material                       | 規格<br>Spec.                                            | 最小厚度<br>Minimum<br>thickness | 最大厚度<br>Maximum<br>thickness | 標準厚度<br>Standard<br>thickness | 標準完成<br>外徑<br>Standard<br>the outer<br>diameter | 外徑範圍<br>Completes<br>the outer<br>diameter<br>scope |
|-------------------|--------------------------------------|--------------------------------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------------------------|-----------------------------------------------------|
| 導體<br>Conductor   | 軟銅絞線<br>Soft copper stranded<br>wire | 0.180mm ± 0.004mm /34                                  | -                            | -                            | -                             | 1.213mm                                         |                                                     |
| 絕緣體<br>Insulation | PVC                                  | 軟質ROHS、REACH<br>Soft & conforms to the ROHS、REACH test | 0.380mm                      | 0.507mm                      | 0.44mm                        | 2.10mm                                          | ± 0.10                                              |

### 二. 電氣特性: Electric properties

| 項目<br>Item.                                             | 規格<br>Spec.                                                           |
|---------------------------------------------------------|-----------------------------------------------------------------------|
| 額定電壓溫度<br>Specified voltage and temperature             | UL/CSA : 80℃ 300V (peak)                                              |
| 火花試驗<br>Spark test                                      | 5 KV不穿破<br>The insulation must be withstand 5 KV high-tension current |
| 耐電壓 (20℃)<br>Insulation potengial strengh (20℃)         | AC水中2000V/min.<br>2000V/min ( for water's environment )               |
| 最小絕緣電阻 (20℃)<br>Minimum insulation resistance (20℃)     | DC500V 15 MΩ·Km 以上 ↑                                                  |
| 最大導體電阻(20℃)<br>Max.conductor resistance Ohm/KM<br>(20℃) | 24.40 Ω/KM以下 ↓                                                        |
| 容許電流(40℃)<br>Admit Max. current (40℃)                   | 約 12.5 A以下                                                            |

### 三. 物理特性: Physical properties

| 項目<br>Item                                                    | 絕緣體<br>Insulation                                                                                                                                                                            |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 耐燃試驗<br>Based on standard of flammability material<br>testing | 依UL Subj.1581之VW-1規定合格之。According for UL Subj.1581 list VW-1 spec.<br>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<br>Before of<br>aging test                              | 絕緣抗張強度 kg/mm <sup>2</sup><br>Insulation tensile strength test kg/m                                                                                                                           |
| 絕緣伸長率%<br>Insulation elongation test rate %                   | 1500psi ↑<br>100% ↑                                                                                                                                                                          |
| 老化後試驗<br>After of<br>aging test                               | 絕緣抗張殘率%<br>Insulation tensile remnant rate %                                                                                                                                                 |
| 絕緣伸長殘率%<br>Insulation elongates remnant rate %                | 老化後(113℃,168小時)為老化前值70% 以上<br>This amount must be above 70% Afeter heat ageing (113℃,168hrs)<br>老化後(113℃,168小時)為老化前值65% 以上<br>This amount must be above 65% Afeter heat ageing (113℃,168hrs) |
| 加熱變形試驗<br>Heating distortion 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>Thermo shock test                                    | 溫度120℃,1小時不龜裂<br>The insulation face must be no cracked, high temperature at 120℃ for 1hour.                                                                                                 |
| 冷彎試驗<br>Cold bending test                                     | 溫度-40℃, 3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 3hour and bent, to withstand 1000V for 1min.                                                    |
| 耐油試驗<br>Oil resistance                                        | 浸於80℃油中4小時, 彎曲後需耐1000V1分鐘<br>Immersed in oil at 50℃ for 20h and bent, to withstand 1000V for 1min.                                                                                           |

|                            |                       |                                                                                           |                                       |      |                                   |       |
|----------------------------|-----------------------|-------------------------------------------------------------------------------------------|---------------------------------------|------|-----------------------------------|-------|
| 四. 印字 :<br>Print<br>list : | 芯線<br>Insulation part | E309530 AWM 1007 18AWG 80℃ 300V VW-1 TYC CSA<br>301301 AWM 1A 18AWG 80℃ 300V FT1 FT2 ROHS | 字組數 :<br>The<br>amount of<br>printing | 2組字體 | 字高 :<br>The height<br>of printing | 0.9mm |
|----------------------------|-----------------------|-------------------------------------------------------------------------------------------|---------------------------------------|------|-----------------------------------|-------|