

## UL 1591

## Teflon Wire 150°C 300V

## 說明

- 導體使用單條或絞線 32-16AWG 鍍銀銅或鍍金銅。
- FEP 絕緣。
- 額定溫度：150°C, 額定電壓：300V。
- 具耐熱 150°C, 耐寒性 -80°C, 耐磨損, 耐化學性, 耐溶劑性, 耐切穿性, 耐油性等。
- 可通過 UL VW-1 垂直型耐燃測試。

## 應用

- 適用於多種家用電器, 照明燈具, 電子設備, 溫度傳感等引出連接線。

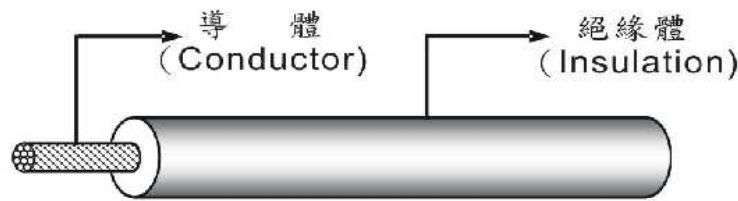
## Product Description

- Solid or stranded; tinned or silver-plated, or gold-plated copper conductor, 32-16AWG.
- FEP Insulation.
- Rated Temperature: 150°C; Rated Voltage: 300V.
- Resistant to heat 150°C, cold -80°C, abrasion, chemical solvents, high voltage spikes, oil, etc.,
- Passes UL VW-1 Vertical Flame Test.

## Applications

- Fit for fixed internal wiring of household appliances, headlamps, mechanical and electrical machinery, etc.

## 構造及電氣性能 (Structure &amp; electrical properties)



| UL 1591          | 額定<br>Range      |                     | 導體<br>Conductor |              | 絕緣體<br>Insulation     |                 | 公差值<br>Tolerance<br>mm | 最大導體<br>阻 抗<br>Maximum<br>Conductor<br>Resistance<br>Ω/km | 絕緣耐<br>電壓<br>(VAC/min)<br>Insulation<br>Potential<br>Strength |
|------------------|------------------|---------------------|-----------------|--------------|-----------------------|-----------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------|
|                  | 溫度<br>Temp<br>°C | 電 壓<br>Voltage<br>V | 線號<br>AWG       | 構成<br>NO./mm | 厚度<br>Thickness<br>mm | 外徑<br>O.D<br>mm |                        |                                                           |                                                               |
| Stranded<br>多芯線  | 150°C            | 300V                | 32              | 7/0.080      | 0.40                  | 1.05            | ±0.10                  | 703                                                       | 2000                                                          |
|                  |                  |                     | 30              | 7/0.100      | 0.40                  | 1.15            | ±0.10                  | 397                                                       |                                                               |
|                  |                  |                     | 28              | 7/0.127      | 0.40                  | 1.20            | ±0.10                  | 248                                                       |                                                               |
|                  |                  |                     | 26              | 7/0.160      | 0.40                  | 1.30            | ±0.10                  | 152                                                       |                                                               |
|                  |                  |                     | 24              | 7/0.200      | 0.40                  | 1.45            | ±0.10                  | 88.6                                                      |                                                               |
|                  |                  |                     | 22              | 7/0.254      | 0.40                  | 1.60            | ±0.10                  | 62.5                                                      |                                                               |
|                  |                  |                     | 20              | 7/0.320      | 0.40                  | 1.80            | ±0.10                  | 39.5                                                      |                                                               |
|                  |                  |                     | 18              | 7/0.400      | 0.40                  | 2.05            | ±0.10                  | 24.4                                                      |                                                               |
|                  |                  |                     | 16              | 7/0.500      | 0.40                  | 2.40            | ±0.15                  | 15.6                                                      |                                                               |
| Solid(TA)<br>單芯線 | 150°C            | 300V                | 32              | 1/0.200      | 0.40                  | 0.85            | ±0.10                  | 575                                                       |                                                               |
|                  |                  |                     | 30              | 1/0.254      | 0.40                  | 1.05            | ±0.10                  | 377                                                       |                                                               |
|                  |                  |                     | 28              | 1/0.320      | 0.40                  | 1.15            | ±0.10                  | 232.1                                                     |                                                               |
|                  |                  |                     | 26              | 1/0.404      | 0.40                  | 1.20            | ±0.10                  | 155                                                       |                                                               |
|                  |                  |                     | 24              | 1/0.500      | 0.40                  | 1.30            | ±0.10                  | 92.4                                                      |                                                               |
|                  |                  |                     | 22              | 1/0.643      | 0.40                  | 1.45            | ±0.10                  | 60.1                                                      |                                                               |
|                  |                  |                     | 20              | 1/0.813      | 0.40                  | 1.65            | ±0.10                  | 37.0                                                      |                                                               |