

電気絶縁材料 Electrical Insulating Materials

耐熱電線類 Heat-resistant Wires

スパロン SPALON

規格取得電線
Standard-compliant Wire

電安法規格電線

Electrical Wire Conforming to Electrical Equipment Safety Law

仕様 Specifications

定格電圧 150・300Vタイプ

150 V and 300 V models (rated voltage)

| | | |
|---|------|--------------------------------|
| 単心ゴムコード Silicon rubber insulated glass braiding electrical wires (rubber-jacketed single core cord) | TGS- | 定格150V Rated voltage: 150 V |
| | TGS- | 定格300V Rated voltage: 300 V |

定格電圧 600Vタイプ

600 V models (rated voltage)

| | | |
|--|-------|--------------------------------|
| ゴム絶縁電線 Silicon rubber insulated glass braiding electrical wires | TWS-K | 定格600V Rated voltage: 600 V |
| | TWS-L | 定格600V Rated voltage: 600 V |

1 構造・材質

Structure and material

TGSは、WP一電線と同様導体上にシリコンゴムを被覆した上にガラス繊維を編組し、シリコンワニスで処理したもので、特に電気用品安全法の規定にもとづいて製造したものであります。

TWSは、TGSと同様電気用品安全法の規定に基づいて製造したものであり、更にガラス編組を二重にし強化した電線であります。

TGS type wire is constructed from a conductor that is covered with silicon rubber and glass braiding and coated with silicon varnish, like WP wires. It is specifically fabricated based on the requirements from the Electrical Equipment Safety Law.

TWS type wire, as with the TGS type, is manufactured based on the requirements from the Electrical Equipment Safety Law and features double glass braiding designed to improve the strength.

2 品質・用途等

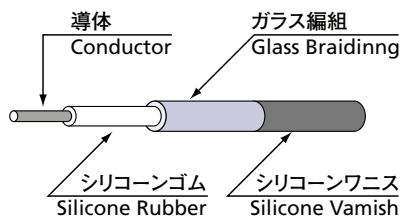
Quality and applications

TGSには、使用電圧により定格150V用と300Vがあり、各種家庭電気器具等に使用されております。

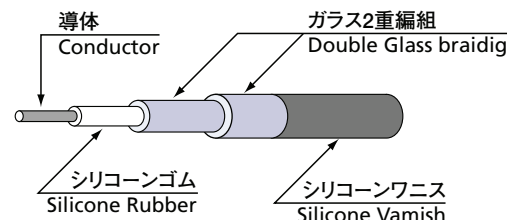
TWSは、TWS-LとTWS-Kと2種類あり、共に定格600Vであり、熱器具、強電機器等に使用されております。

TGS type wires are classified into two models according to the voltage ratings, 150 V and 300 V. These wires are used in various types of home electrical equipment. TWS type wires are classified into two models: TWS-L and TWS-K. Both models are rated at 600 V and used in heating equipment and high-voltage equipment.

TGS



TWS



構成 (TGS-電線) Specifications (type TGS wire)

| 定格電圧 Rated voltage | 種類・記号 Grade and code | 導 体 Conductor | | 絶縁体 標準厚さ (mm) Standard insulator thickness | ガラス編組 標準厚さ (mm) Standard glass braiding thickness | 仕上り標準外径 Standard finished O.D. | | 絶縁抵抗 (MΩ-km) Insulation resistance (MΩ-km), min. | 標準長さ (m) Standard length |
|-----------------------|-------------------------|--|----------------------|--|---|-----------------------------------|------------------------|--|--------------------------------|
| | | 公称断面積(mm ²) Nominal cross section | 構成 Core structure | | | 外径 (mm) O.D. | 公差 (%) Tolerance | | |
| 150V | TGS- 40- 50T | 0.5 | 20/0.18 | 0.4 | 0.2 | 2.2 | ±10 | 100 | 500 |
| | 40- 75T | 0.75 | 30/0.18 | 0.4 | 0.2 | 2.4 | | 100 | 400 |
| 300V | TGS- 80- 50T | 0.5 | 20/0.18 | 0.8 | 0.25 | 3.1 | ±10 | 100 | 200 |
| | 80- 75T | 0.75 | 30/0.18 | 0.8 | 0.25 | 3.3 | | 100 | 200 |
| | 80-125T | 1.25 | 50/0.18 | 0.8 | 0.25 | 3.6 | | 100 | 200 |
| | 80-200T | 2.0 | 37/0.26 | 0.8 | 0.25 | 3.9 | | 100 | 200 |
| | 110-350T | 3.5 | 45/0.32 | 1.1 | 0.25 | 5.2 | | 150 | 100 |
| | 110-550T | 5.5 | 35/0.45 | 1.1 | 0.25 | 5.8 | | 150 | 100 |

注) 絶縁抵抗値は、電気用品取締法技術基準別表第一、付表第十一による。 ※導体はスズメッキ軟銅線

Note) The insulation resistance shall be in accordance with Table 1 and Attached Table 11 in the Electrical Equipment Technical Standard.

* The conductor is a tin-coated annealed copper wire.

構成 (TWS-K電線) Specifications (type TWS-K wire)

| 定格電圧 Rated voltage | 種類・記号 Grade and code | 導 体 Conductor | | 絶縁体 標準厚さ (mm) Standard insulator thickness | ガラス編組 標準厚さ (mm) Standard glass braiding thickness | 仕上り標準外径 Standard finished O.D. | | 絶縁抵抗 (MΩ-km) Insulation resistance (MΩ-km), min. | 標準長さ (m) Standard length |
|-----------------------|-------------------------|---|----------------------|--|---|-----------------------------------|------------------------|--|--------------------------------|
| | | 公称径又は公称断面積 Nominal diameter or cross section | 構成 Core structure | | | 外径 (mm) O.D. | 公差 (%) Tolerance | | |
| 600V | TWS-110- 8SK | 0.8 (mm) | 1/0.8 | 1.1 | 0.5 | 4.0 | ±10 | 100 | 200 |
| | 110-10SK | 1.0 | 1/1.0 | 1.1 | 0.5 | 4.2 | | 100 | 200 |
| | 110-12SK | 1.2 | 1/1.2 | 1.1 | 0.5 | 4.4 | | 100 | 200 |
| | TWS-110-125TK | 1.25 (mm ²) | 7/0.45 | 1.1 | 0.5 | 4.6 | ±10 | 100 | 100 |
| | 110-200TK | 2.0 | 7/0.6 | 1.1 | 0.5 | 5.0 | | 100 | 100 |
| | 110-350TK | 3.5 | 7/0.8 | 1.1 | 0.5 | 5.6 | | 100 | 100 |
| | 110-550TK | 5.5 | 7/1.0 | 1.1 | 0.5 | 6.2 | | 90 | 100 |

注) 絶縁抵抗値は、電気用品取締法技術基準別表第一、付表第十一による。 ※導体はスズメッキ軟銅線

Note) The insulation resistance shall be in accordance with Table 1 and Attached Table 11 in the Electrical Equipment Technical Standard.

* The conductor is a tin-coated annealed copper wire.

構成 (TWS-L電線) Specifications (type TWS-L wire)

| 定格電圧 Rated voltage | 種類・記号 Grade and code | 導 体 Conductor | | 絶縁体 標準厚さ (mm) Standard insulator thickness | ガラス編組 標準厚さ (mm) Standard glass braiding thickness | 仕上り標準外径 Standard finished O.D. | | 絶縁抵抗 (MΩ-km) Insulation resistance (MΩ-km), min. | 標準長さ (m) Standard length |
|-----------------------|-------------------------|---|----------------------|--|---|-----------------------------------|------------------------|--|--------------------------------|
| | | 公称径又は公称断面積 Nominal diameter or cross section | 構成 Core structure | | | 外径 (mm) O.D. | 公差 (%) Tolerance | | |
| 600V | TWS-110- 75TL | 0.75 (mm ²) | 30/0.18 | 1.1 | 0.5 | 4.4 | ±10 | 100 | 100 |
| | 110- 125TL | 1.25 | 50/0.18 | 1.1 | 0.5 | 4.7 | | 100 | 100 |
| | 110- 200TL | 2.0 | 37/0.26 | 1.1 | 0.5 | 5.0 | | 100 | 100 |
| | 110- 350TL | 3.5 | 45/0.32 | 1.1 | 0.5 | 5.7 | | 100 | 100 |
| | 110- 550TL | 5.5 | 35/0.45 | 1.1 | 0.5 | 6.3 | | 90 | 100 |
| | 110- 800TL | 8.0 | 50/0.45 | 1.1 | 0.5 | 6.9 | | 80 | 100 |
| | 140-1400TL | 14.0 | 88/0.45 | 1.4 | 0.6 | 8.9 | | ±10 | 60 |
| | 140-2200TL | 22.0 | 7/20/0.45 | 1.4 | 0.6 | 9.1 | ±10 | 70 | 50 |
| | 140-3800TL | 38.0 | 7/34/0.45 | 1.4 | 0.6 | 13.1 | ±10 | 50 | 50 |

注) 絶縁抵抗値は、電気用品取締法技術基準別表第一、付表第十一による。 ※導体はスズメッキ軟銅線

Note) The insulation resistance shall be in accordance with Table 1 and Attached Table 11 in the Electrical Equipment Technical Standard.

* The conductor is a tin-coated annealed copper wire.

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