YGZ



产品结构

- 多股镀锡铜线绞合软导体，镀锡铜线性能参考 GB/T4910-2022，导体的结构参考 GB/T3956-2008 或客户的要求
- 硅橡胶绝缘，绝缘材料性能参考 GB/T2951-2008；成品电线电缆的外径检验方法参考 GB/T2951-2008；成品电线电缆电性能检验方法参考 GB/T3048-2007
- 硅橡胶护套，绝缘材料性能参考 GB/T2951-2008；成品电线电缆的外径检验方法参考 GB/T2951-2008；成品电线电缆电性能检验方法参考 GB/T3048-2007

技术数据

- 温度范围：-60~+200°C
- 额定电压：
- U0/U 300/500V
- 测试电压：1500V
- 绝缘电阻：20°C时应不小于 100MΩ・km
- 耐辐射性：up to 20×10^6cJ/kg(up to 20 Mrad)

产品特性

- 具有优良的环保性，无毒无害，极好的抗血栓性、生物惰性；优良的电绝缘性能；具有中等的耐油、耐溶剂性能；在高温环境下电气性能稳定，抗老化性能好，使用寿命长。可在长期潮湿环境中使用，电性能及防水、防霉性能优越；硅橡胶非常柔软，具有良好的弹性，弯曲且柔软，便于安装
- 可燃、燃烧气体的腐蚀性（无卤素）符合 DIN VDE0482 第 267 部分，DINEN50267-2-2,IEC60754-2（等效 DIN VDE0472 第 813 部分）；火灾中的行为无火焰传播应符合 DIN VDE0482-332-1-2/DIN EN 60332-1-2/IEC 60332-1（等效 DINVDE0472part804 测试方法 B）
- 不含有害物质，符合 ROHS 标准

应用范围

- 用于钢铁生产工业、航空工业以及造船、水泥、玻璃和陶瓷厂。由于这种单芯线不含卤素，特别适用于发电站
- 广泛应用于照明灯具、家用电器、电热电器、仪表仪器、电机引接线及电子、灯具、染具等高温线环境
- 硅胶电缆的发展是为了在绝缘材料受到极端温度变化的情况下使用。良好的耐环境性能意味着硅胶电缆可在低至 -60°C的温度下使用。由于芯线绝缘的弹性特性，它们被用作柔性连接电缆

Product Structures

- Multi-stranded tinned copper wire flexible conductor, Tinned copper performance: GB/T4910-2022, Conductor structure: GB/T 3956-2008 or custom specifications.
- Construction: Silicone rubber insulation, Material performance: GB/T 2951-2008, Outer diameter testing: GB/T 2951-2008, Electrical performance testing: GB/T 3048-2007
- Silicone rubber sheath: Material performance: GB/T 2951-2008, Outer diameter testing: GB/T 2951-2008, Electrical performance testing: GB/T 3048-2007

Technical data

- Temperature range: -60~+200°C
- Rated voltage:
- U0/U 300/500V
- Test voltage: 1500V
- Insulation resistance: ≥ 100MΩ・km at 20°C radiation resistance: up to 20×10^6cJ/kg(up to 20 Mrad)

Product Features

- Eco-friendly;Odorless,non-toxic,exceptional thromboresistance and bio-inertness
- Superior dielectric properties with moderate oil/solvent resistance
- Thermal stability: Maintains electrical integrity at 200°C with extended service life
- Environmental resistance: Waterproof, mildew-proof, and humidity-resistant
- Enhanced flexibility: Dual-layer silicone construction for easy installation
- Certified halogen-free option: Corrosive gas emission: DIN VDE 0482-267; DIN EN 50267-2-2; IEC 60754-2 (= DIN VDE 0472-813), Flame propagation resistance: DIN VDE 0482-332-1-2/DIN EN 60332-1-2/IEC 60332-1 (= DIN VDE 0472-804 Method B)
- ROHS compliant: Hazardous substance-free

Applications

- Heavy industries:

Steel production / Aviation / Shipbuilding
Cement / Glass / Ceramics manufacturing
Power generation facilities (halogen-free advantage)

- High-temperature environments:

Lighting systems & Household appliances
Heating equipment / Precision instruments
Motor lead wires / Industrial electronics
Textile machinery / Curing ovens

- Specialized applications:

Flexible connection cables for extreme temperature fluctuations
Critical installations requiring environmental resistance (-60°C capability)

技术参数 Technical Parameters

芯数 × 截面 Cores and AWG (mm^2)	导体结构根数 / 线径 Conductor construction: Number/size(mm)	绝缘厚度 Insulation thickness (mm)	绝缘外径 Insulation OD (mm)	护套厚度 Sheath thickness (mm)	平均外径 Average thickness (mm)	20°C时导体电阻 Max At 20°C, the maximum direct current resistance of the conductor (Ω/km)
2×0.2	7/0.20	0.40	1.40	0.90	4.60	94.00
3×0.2	7/0.20	0.40	1.40	0.90	4.80	94.00
4×0.2	7/0.20	0.40	1.40	0.90	5.20	94.00
5×0.2	7/0.20	0.40	1.40	1.00	5.80	94.00
2×0.3	16/0.15	0.40	1.50	0.90	4.80	71.20
3×0.3	16/0.15	0.40	1.50	0.90	5.00	71.20
4×0.3	16/0.15	0.40	1.50	1.00	5.60	71.20
5×0.3	16/0.15	0.40	1.50	1.20	6.40	71.20
2×0.5	28/0.15	0.50	2.00	1.00	6.00	40.10
3×0.5	28/0.15	0.50	2.00	1.20	6.80	40.10
4×0.5	28/0.15	0.50	2.00	1.20	7.20	40.10
5×0.5	28/0.15	0.50	2.00	1.20	7.80	40.10
6×0.5	28/0.15	0.50	2.00	1.30	8.60	40.10
7×0.5	28/0.15	0.50	2.00	1.30	8.60	40.10
2×0.75	24/0.20	0.60	2.40	1.20	7.20	26.70
3×0.75	24/0.20	0.60	2.40	1.20	7.60	26.70
4×0.75	24/0.20	0.60	2.40	1.30	8.50	26.70
5×0.75	24/0.20	0.60	2.40	1.50	9.50	26.70
6×0.75	24/0.20	0.60	2.40	1.60	10.40	26.70
7×0.75	24/0.20	0.60	2.40	1.60	10.40	26.70
10×0.75	24/0.20	0.60	2.40	1.70	12.60	26.70
12×0.75	24/0.20	0.60	2.40	1.80	13.60	26.70
14×0.75	24/0.20	0.60	2.40	1.80	14.20	26.70
19×0.75	24/0.20	0.60	2.40	1.80	15.60	26.70
2×1	32/0.20	0.60	2.60	1.20	7.60	20.00
3×1	32/0.20	0.60	2.60	1.20	7.80	20.00
4×1	32/0.20	0.60	2.60	1.30	8.80	20.00
5×1	32/0.20	0.60	2.60	1.50	10.00	20.00
6×1	32/0.20	0.60	2.60	1.60	11.00	20.00
7×1	32/0.20	0.60	2.60	1.80	11.60	20.00
10×1	32/0.20	0.60	2.60	1.80	13.40	20.00
12×1	32/0.20	0.60	2.60	1.80	14.50	20.00
14×1	32/0.20	0.60	2.60	1.80	15.20	20.00
19×1	32/0.20	0.60	2.60	1.80	16.60	20.00

芯数 × 截面 Cores and AWG (mm^2)	导体结构根数 / 线径 Conductor construction: Number/size(mm)	绝缘厚度 Insulation thickness (mm)	绝缘外径 Insulation OD (mm)	护套厚度 Sheath thickness (mm)	平均外径 Average thickness (mm)	20°C时导体电阻 Max At 20°C, the maximum direct current resistance of the conductor (Ω/km)
2×1.5	48/0.20	0.60	2.80	1.30	8.50	13.70
3×1.5	48/0.20	0.60	2.80	1.30	8.50	13.70
4×1.5	48/0.20	0.60	2.80	1.40	9.50	13.70
5×1.5	48/0.20	0.60	2.80	1.50	10.60	13.70
6×1.5	48/0.20	0.60	2.80	1.80	12.00	13.70
7×1.5	48/0.20	0.60	2.80	1.80	12.00	13.70
10×1.5	48/0.20	0.60	2.80	1.80	14.20	13.70
12×1.5	48/0.20	0.60	2.80	1.80	15.20	13.70
14×1.5	48/0.20	0.60	2.80	1.80	16.00	13.70
19×1.5	48/0.20	0.60	2.80	2.00	18.00	13.70
20×1.5	48/0.20	0.60	2.80	2.00	18.50	13.70
24×1.5	48/0.20	0.60	2.80	2.00	21.20	13.70
37×1.5	48/0.20	0.60	2.80	2.40	24.50	13.70
2×2.5	49/0.25	0.70	3.50	1.50	10.00	8.21
3×2.5	49/0.25	0.70	3.50	1.50	10.50	8.21
4×2.5	49/0.25	0.70	3.50	1.70	12.00	8.21
5×2.5	49/0.25	0.70	3.50	1.80	13.20	8.21
6×2.5	49/0.25	0.70	3.50	1.80	14.20	8.21
7×2.5	49/0.25	0.70	3.50	1.80	14.20	8.21
10×2.5	49/0.25	0.70	3.50	1.80	16.80	8.21
12×2.5	49/0.25	0.70	3.50	1.80	18.20	8.21
14×2.5	49/0.25	0.70	3.50	2.00	19.50	8.21
19×2.5	49/0.25	0.70	3.50	2.20	22.00	8.21
24×2.5	49/0.25	0.70	3.50	2.40	26.40	8.21
37×2.5	49/0.25	0.70	3.50	2.50	29.50	8.21