GBB

产品结构

- 镀锡铜绞线绞合软导体，镀锡铜性能参考 GB/T4910-2022 标准；导体结构参考 GB/T 3956-2008 或客户的要求
- 硅橡胶绝缘，绝缘材料性能参考 GB/T2951-2008
- 玻璃纤维参考 GB/T18371-2008；电缆的涂覆层采用硅树脂，性能参考标准 HG/T3312-2000 中规定的要求，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

产品性能

- 具有优良的环保性，无味无毒，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
- 可选 - 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 EN60332-1-2/IEC60332-1（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

Product Structures

- Multi-stranded tinned copper wire flexible conductor. Tinned copper wire performance: GB/T4910-2022, Conductor structure: GB/T 3956-2008 or customer specifications.
- Silicone rubber insulation: Material performance: GB/T 2951-2008
- Fiberglass reinforcement: Compliant with GB/T 18371-2008

Technical data

- Temperature range: -60~+200°C
- Rated voltage: U0/U 300/500V
- Test voltage: 1500V
- Insulation resistance: ⩾ 100MΩ・km at 20°C

Product Features

- Eco-friendly & biocompatible: Odorless, non-toxic, anti-thrombogenic, biologically inert
- Superior electrical insulation: Stable performance at high temperatures
- Durability: Excellent aging resistance, extended service life
- Environmental resistance:
  - - Moderate oil/solvent resistance
  - - Waterproof, anti-mold properties for humid environments
- Flexibility: Highly soft and elastic for easy installation
- Optional Halogen-free Certification:
  - - Corrosive gas emission: Compliant with DIN VDE 0482-267 / EN 50267-2-2 / IEC 60754-2
  - - Flame propagation resistance: Compliant with DIN VDE 0482-332-1-2 / EN 60332-1-2 / IEC 60332-1
- Eco-friendly: ROHS compliant

Applications

- Heavy industries:
  - - Steel production, aviation, shipbuilding
  - - Cement/glass/ceramic plants
  - - Halogen-free critical areas: Power stations
- High-temperature environments:
  - - Lighting fixtures, household appliances
  - - Electric heating equipment, instrumentation
  - - Motor lead wires, electronics
  - - Dyeing equipment and industrial heating systems

技术参数 Technical Parameters

标称截面 Nominal cross section (mm^2)	导体结构 根数 / 线径 Conductor construction: Number/size (mm)	绝缘厚度 Insulation thickness (mm)	编织厚度 Braiding thickness (mm)	平均外径 Average OD (mm)	20°C时导体直流电阻最大值 At 20°C, the maximum direct current resistance of the conductor (Ω/km)
0.20	12×0.15	0.50	0.15	1.80	95
0.30	16×0.15	0.50	0.15	2.00	71.2
0.40	23×0.15	0.50	0.15	2.20	49.6
0.50	28×0.15	0.50	0.15	2.20	40.1
0.75	42×0.15	0.50	0.15	2.50	26.7
1.0	32×0.20	0.50	0.15	2.70	20
1.2	40×0.20	0.50	0.15	2.80	15.9
1.5	48×0.20	0.55	0.15	3.00	13.7
2.0	40×0.25	0.60	0.15	3.40	9.9
2.5	49×0.25	0.65	0.15	3.70	8.21
4.0	56×0.30	0.65	0.20	4.40	5.09
6.0	84×0.30	0.70	0.20	5.40	3.39
10	84×0.40	0.80	0.20	6.80	1.95
16	126×0.40	1.20	0.25	8.90	1.24
25	196×0.40	1.20	0.25	10.50	0.795
35	494×0.30	1.80	0.25	13.00	0.565
50	396×0.40	1.80	0.30	14.80	0.393
70	551×0.40	1.80	0.30	17.00	0.277
95	760×0.40	2.20	0.30	19.60	0.21
120	608×0.50	2.20	0.35	21.00	0.164
150	756×0.50	2.20	0.35	23.10	0.132
185	925×0.50	2.40	0.40	25.60	0.108
240	1221×0.50	2.40	0.40	28.60	0.0817
300	1517×0.50	2.80	0.40	32.40	0.0654