AWM3068

产品结构

- 多股镀锡铜绞合软导体，镀锡铜线性能参考 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，电缆的最外层采用硅树脂，性能参考标准 HG/T3312-2000（不强制要求），成品电线电缆的外径参考 UL758，成品电线电缆电性能参考 UL1581

技术数据

- 温度范围：-60~+150°C　•　额定电压：U0/U 300V　•　测试电压：2000V
- 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
- 广泛应用于冶金、电力、石化、电子、汽车制造等行业
- 应用于照明灯具、家用电器、电热电器、仪器仪表、电机引接线及电子、灯具、燃具等高温环境

Product Structures

- Multi-stranded tinned copper wire flexible conductor. Tinned copper wire performance: GB/T4910-2022; Conductor structure: GB/T 3956-2008 or the customer's requirements.
- Silicone rubber insulation: Material performance: GB/T 2951-2008
- Fiberglass reinforcement: Compliant with GB/T 18371-2008; Silicone resin coating: Performance requirements: HG/T 3312-2000; Testing Standards: Outer diameter inspection: UL758, Electrical performance testing: UL1581

Technical data

- Temperature range: -60~+150°C
- Rated voltage: U0/U 300V
- Test voltage: 2000V
- 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:
  - - Low smoke & 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
- Core industrial sectors:
  - - Metallurgy / Power generation
  - - Petrochemicals / Electronics
  - - Automotive manufacturing
- High-temperature applications:
  - - Lighting systems & household appliances
  - - Heating equipment / Precision instruments
  - - Motor lead wires / Industrial electronics
  - - Combustion equipment / Curing ovens

技术参数 Technical Parameters

线规 AWG (AWG)	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)	包装长度 The length of package (m)
16	7×0.50	0.38	0.15	2.58	14.6	305
17	7×0.45	0.38	0.15	2.42	18.3	305
18	7×0.40	0.38	0.15	2.28	23.2	305
20	7×0.32	0.38	0.15	2.04	36.7	305
22	7×0.26	0.38	0.15	1.86	59.4	610
24	7×0.20	0.38	0.15	1.68	94.2	610
26	7×0.16	0.38	0.15	1.56	150	610
28	7×0.12	0.38	0.15	1.14	239	610
30	7×0.10	0.38	0.15	1.08	381	610