AGR-TR

产品结构

- 单根或多股裸铜、镀锡铜线绞合软导体，裸铜线性能参考 GB/T3953-2009；镀锡铜线性能参考 GB/T4910-2022 标准；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

技术数据

- 温度范围：-60~+180°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

产品特性

- 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、仪器仪表、电机引接线及电子、灯具、染具等高温线环境

Product Structures

- Single or stranded flexible conductor: bare copper or tinned copper
  - - Bare copper performance: Compliant with GB/T 3953-2009
  - - Tinned copper performance: Compliant with GB/T4910-2022
- Conductor structure: Compliant with GB/T 3956-2008 or customer requirements
- Insulation: Silicone rubber
  - - Material performance: Compliant with GB/T 2951-2008
  - - Finished cable OD inspection: Per GB/T 2951-2008
  - - Electrical performance inspection: Per GB/T 3048-2007

Technical Data

- Temperature range: -60°C to +180°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

线规 Guage (AWG)	标称截面 Nominal cross section (mm^2)	导体结构 根数 / 线径 Conductor construction: Number/size (mm)	导体外径 Conductor outer diameter (mm)	平均外径 Average outer diameter (mm)	20°C时导体直流电阻 Max The maximum resistance value of the conductor at 20°C (Ω/km)	安全负载电流 Safe load current(A)
30	0.05	11/0.08	0.30	1.20	381	0.45
28	0.08	16/0.08	0.37	1.30	239	0.60
26	0.15	30/0.08	0.50	1.50	150	1.50
24	0.20	40/0.08	0.60	1.60	94.2	2.0
22	0.30	60/0.08	0.72	1.80	71.2	3.0
20	0.50	100/0.08	0.94	2.10	40.1	5.0
18	0.75	150/0.08	1.15	2.50	26.7	8.0
17	1.0	200/0.08	1.50	2.70	20	11
16	1.5	300/0.08	1.80	3.30	13.7	18
14	2.0	420/0.08	2.10	3.60	9.10	20
13	2.5	490/0.08	2.30	4.00	8.21	30
11	4.0	798/0.08	3.00	5.00	5.09	40
10	5.20	1050/0.08	3.20	5.40	3.55	50
9	6.0	1200/0.08	3.60	5.60	3.39	60
8	8.0	1650/0.08	4.20	6.40	2.23	70
7	10	2071/0.08	4.70	7.20	1.77	80
5	16	3200/0.08	5.50	8.50	1.24	100
3	25	5000/0.08	7	12	0.795	150
2	35	7000/0.08	8.50	13	0.565	200
1/0	50	10000/0.08	10	15	0.400	250
2/0	70	14000/0.08	12	17	0.277	300
3/0	95	17000/0.08	14.5	19	0.210	350