

AWM10086

产品结构

实芯或镀锡、镀银或镀镍铜绞线绞合导体，镀锡铜线性能参考 GB/T4910-2022 标准，镀银铜线性能参考 JB/T3135-2024 标准，镀镍铜线性能参考 GB/T11019-2021 标准，成品结构参考 UL758&UL1581，成品绝缘外皮尺寸按照 UL758&UL1581；成品电线电缆的外形尺寸检验方法按 UL758&UL1581；成品电线电缆电阻检验参考 UL758&UL1581.

技术范围

- 使用温度：-60~+150°C
- 额定电压：U0/U 600V
- 测试电压：2000V
- 导体电阻：20°C时不小于 $1.0 \times 10^8 \text{ M}\Omega \cdot \text{km}$

产品性能

- 具有优良的耐腐蚀性能；具有良好的电绝缘性能；具有优良的阻燃、耐老化性能，介电性能好，耐辐射性能佳；具有优良的机械性能，产品使用寿命长。
- 不阻燃、自熄、阻燃剂燃烧符合 DIN/VDE0482 第265-2-1部分/EN50265-2-1/IEC60332-1（等效 DIN VDE 0472部分804 测试方法 B）
- 不含有害物质，符合 ROHS 标准

应用

适用于家用电器、照明灯具（冷光源），小电机、温度传感器、电磁线圈、汽车内部连接线、电子电容等

Product Structures

Conductor: Solid or tin-plated, silver-plated, or nickel-plated copper wire stranded flexible conductor. Tin-plated copper wire performance refers to standard GB/T4910-2022. Silver-plated copper wire performance refers to standard JB/T3135-2024. Nickel-plated copper wire performance refers to standard GB/T11019-2021. Conductor structure refers to standard UL758&UL1581 or customer-specific requirements.

Insulation: ETFE. Insulation material performance refers to standard UL758&UL1581. Finished wire/cable dimensions shall be tested according to UL758&UL1581. Finished wire/cable electrical performance testing refers to standard UL758&UL1581.

Technical Scope

- Temperature Range: -60~+150°C
- Rated Voltage: U0/U 600V
- Test Voltage: 2000V
- Insulation Resistance: Not less than $1.0 \times 10^8 \text{ M}\Omega \cdot \text{km}$ at 20°C (Min. 1000MΩ · km at 20°C)

Product Features

- Excellent corrosion resistance; excellent electrical insulation properties; excellent flame retardant and aging-resistant properties; good dielectric properties; outstanding radiation resistance; excellent mechanical properties; long product service life.
- Flame retardancy and self-extinguishing. Flame retardancy test complies with DIN VDE 0482 Part 265-2-1 / EN 50265-2-1 / IEC 60332-1 (Equivalent to DIN VDE 0472 Part 804, Test Method B)
- Free of hazardous substances, compliant with the ROHS standard.

Applications

Suitable for household appliances, lighting fixtures (cold light sources), small motors, temperature sensors, electromagnetic coils, automotive internal wiring harnesses, electronic and electrical equipment, etc.

技术参数 Technical Parameters

线规 Gauge (AWG)	导线 Conductor	导体外径 Conductor outer diameter (mm)	绝缘厚度 Insulation thickness (mm)	绝缘外径 Insulation outer diameter (mm)	电器特性 Appliance property 20°C时导体直流电阻 Max The maximum resistance value of the conductor at 20°C (Ω/km)	包装 Package 米/卷 Meter/roll
	导线结构 Conductor structure (mm)					
10	37×0.43	3.00	0.38	3.80	3.546	305
12	19×0.49	2.45	0.38	3.20	5.64	305

线规 Gauge (AWG)	导线 Conductor 导线结构 Conductor structure (mm)	导体外径 Conductor outer diameter (mm)	绝缘厚度 Insulation thickness (mm)	绝缘外径 Insulation outer diameter (mm)	电器特性 Appliance property 20°C时导体直流电阻 Max The maximum resistance value of the conductor at 20°C (Ω/km)	包装 Package 米/卷 Meter/roll
14	19×0.37	1.85	0.25	2.40	8.96	305
16	19×0.30	1.50	0.25	2.00	14.6	305
17	19×0.28	1.30	0.25	1.85	19.5	305
18	19×0.235	1.18	0.25	1.70	23.2	305
20	19×0.20	1.00	0.25	1.50	36.7	305
	1×0.813	0.813	0.25	1.35	35.2	305
22	19×0.16	0.80	0.25	1.30	59.4	305
	1×0.65	0.65	0.25	1.20	56.4	305
	7×0.25	0.76	0.25	1.30	59.4	305
24	1×0.511	0.511	0.25	1.05	89.3	305
26	7×0.16	0.48	0.25	1.00	150	610
	1×0.40	0.40	0.25	0.95	143	610
	1×0.12	0.36	0.25	0.90	239	610
28	1×0.32	0.32	0.25	0.85	227	610
	7×0.12	0.36	0.25	0.90	239	610
30	1×0.254	0.254	0.25	0.75	381	610
	1×0.08	0.24	0.25	0.75	596	610
32	1×0.20	0.20	0.25	0.70	563	610