

AF200X



产品结构

- 单根或多股镀锡铜线绞合导体，镀锡铜线性能参考 GB/T4910-2022 标准；
- 导体结构参考 GB/T3956-2008 或者需求；
- 成品电线电缆的外形尺寸及检验方法参考 GB/T2951-2008，成品电线电缆电性能检验方法参考 GB/T3048-2007

技术范围

- 使用温度：-65~200°C
- 额定电压：U0/U 600V 测试电压：2000V
- 导体电阻：20°C时不小于 $1.0 \times 10^8 \text{ M}\Omega \cdot \text{km}$
- 耐辐射强度：达 $1 \times 10^6 \text{ J/kg}$

产品性能

- 具有优良的耐腐蚀性能，抗油、抗强酸、强碱、强氧化剂及抗微生物，防霉性能好，不允许任何霉菌的生长；
- 具有良好的电绝缘性能：电容低而稳定、阻抗高、介电系数小，高频下电容小，介电损耗极小且几乎不随频率和温度而变化，吸水率/水蒸汽渗透率低（24 小时内约 0.18 mg/cm^3 ），绝缘电阻高；
- 不易燃、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 VDE0472 部分804 测试方法 B）
- 不含有害物质，符合 ROHS 标准

应用

- 电子行业中：可用于温度补偿导线、低温导线、高温加热导线、耐老化电线以及耐射频线
- 家电行业中：可用于空调、微波炉、电子消毒柜、电饭煲、电热水瓶、电熨斗、电炊具、厨具等的内部布线
- 可安装在受热影响的控制柜中以及砖厂、加热器、炖锅、照明灯具等
- 用于高温和高频下工作的电子设备传输线、计算机内部连接线、航空宇宙用电线及其他特殊用途安装线、高温加热线、柴油机油泵电机内部布线、微马达引线等

Product Structures

- Conductor: Single or multi-stranded tin-plated copper wire, stranded flexible construction. Tin-plated copper wire performance refers to standard GB/T4910-2022.
- Conductor structure refers to standard GB/T 3956-2008 or customer-specific requirements.
- Finished wire/cable dimensions and inspection methods refer to standard GB/T 2951-2008. Finished wire/cable electrical performance testing refers to GB/T 3048-2007.

Technical Scope

- Temperature Range: -65~+200°C
- Rated Voltage: U0/U 600V • Test Voltage: 2000V
- Insulation Resistance: No less than $1.0 \times 10^8 \text{ M}\Omega/\text{km}$ at 20°C (Min. $1000 \text{ M}\Omega \cdot \text{km}$ at 20°C)
- Radiation resistance: up to $1 \times 10^6 \text{ J/kg}$ (up to 1 Mrad)

Product Features

- Excellent corrosion resistance: resistant to oil, strong acids, strong alkalis, strong oxidizing agents, and microorganisms; fungus-resistant (prevents fungal growth).
- Excellent electrical insulation properties: low and stable capacitance, high impedance, high dielectric strength, low high-frequency capacitance, dielectric loss is minimal and almost independent of frequency and temperature, low moisture absorption rate/water vapor permeability (approx. 0.18 mg/cm^3 within 24 hours), high insulation resistance.
- Non-flammable, 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

- Electronics industry: Temperature compensation wires, cryogenic wires, high-temperature heating wires, aging-resistant wires, and radio-frequency wires.
- Household Appliance Industry: Internal wiring for air conditioners, microwave ovens, electronic disinfection cabinets, electric rice cookers, electric hot water bottles, electric irons, cooking utensils, etc.
- Installation in heat-affected control cabinets, brick plants, heaters, casseroles, lighting fixtures, etc.
- Transmission lines for electronic equipment operating at high temperatures and high frequencies; internal connection wires for computers; wires for aerospace applications; other special-purpose installation wires, high-temperature heating wires, and internal wiring for diesel engine oil pumps; lead wires for micro-motors, etc.

技术参数 Technical Parameters

标称截面 Nominal cross section (mm ²)	导线结构根/直径 Conductor structure (No./mm)	绝缘厚度 Insulation thickness (mm)	平均外径 Average outer diameter (mm)	电器特性 Appliance property 20℃时导体直流电阻 Max The maximum resistance value of the conductor at 20℃ (Ω/km)	包装长度 The length of package (m)
0.014	7/0.05	0.15	0.65	1454	500
0.035	7/0.08	0.15	0.80	583	500
0.05	7/0.10	0.15	0.85	363	500
0.08	7/0.12	0.20	0.90	245	500
0.12	7/0.15	0.25	0.95	163	500
0.20	7/0.20	0.25	1.10	94.2	500
0.35	19/0.16	0.25	1.30	53.1	200
0.50	19/0.18	0.25	1.40	40.1	200
0.75	19/0.23	0.25	1.70	24.8	200
1.0	19/0.26	0.25	1.80	20	200
1.20	19/0.28	0.30	2.00	16.6	200
1.50	19/0.32	0.30	2.20	13.7	200
2.0	19/0.37	0.30	2.45	9.19	100
2.5	19/0.41	0.40	2.85	8.21	100
4.0	37/0.37	0.40	3.40	5.09	100
6.0	37/0.45	0.50	4.20	3.39	100
8.0	133/0.28	0.50	5.20	2.36	100
10	133/0.32	0.50	5.80	1.95	100
16	133/0.39	0.60	7.0	1.24	100

备注：根据双方协议，可以生产其他规格产品。
Note: Products with other specifications can be manufactured according to the agreement between both parties.