

ETFE-150

产品结构

- 实芯或镀锡、镀银或镀镍铜线绞合软导体。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，导体的结构参考 GB/T3956-2008 或客户的要求
- 乙烯-四氟乙烯共聚物 ETFE 绝缘，绝缘材料性能参考 GJB773B-2015；成品电线电缆的外形尺寸检验方法按 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

- 温度范围：-60~+150°C
- 额定电压：U0/U 600V
- 测试电压：2000V
- 绝缘电阻：20°C时应不小于 $1.0 \times 10^3 \text{M}\Omega \cdot \text{km}$

产品特性

- 具有优良的耐腐蚀性能；具有优良的电绝缘性能；具有优良的阻燃、耐老化性能介电性好，耐辐射性能优异；具有优良的机械性能，产品使用寿命长。
- 不易燃，自熄，阻燃测试符合 DINVDE0482 第 265-2-1 部分 /EN50265-2-1/IEC60332-1（等效 DIN VDE0472part804 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，电子电器等

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 GB/T 3956-2008 or customer-specific requirements.
- Insulation: ETFE. Insulation material performance refers to standard GJB773B-2015. Finished wire/cable dimensions shall be tested according to GB/T 2951-2008. Finished wire/cable electrical performance testing refers to GB/T 3048-2007.

Technical Scope

- Temperature Range: -60~+150°C
- Rated Voltage: U0/U 600V
- Test Voltage: 2000V
- Insulation Resistance: Not less than $1.0 \times 10^3 \text{M}\Omega \cdot \text{km}$ 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.
- 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

- 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 Guage (AWG)	导体 Conductor		绝缘 Insulation		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 Package (米/卷) Meter/roll
	导体结构 Conductor structure	导体外径 Conductor outer diameter (mm)	绝缘厚度 Insulation thickness (mm)	绝缘外径 Insulation outer diameter (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
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	19×0.26	1.30	0.25	1.80	18.3	305
18	19×0.23	1.15	0.25	1.70	23.2	305
20	19×0.18	0.90	0.25	1.40	36.7	305
	1×0.80	0.80	0.25	1.30	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
24	7×0.20	0.60	0.25	1.10	94.2	305
	1×0.50	0.50	0.25	1.00	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
28	7×0.12	0.36	0.25	0.90	239	610
	1×0.32	0.32	0.25	0.85	227	610
30	7×0.10	0.30	0.25	0.80	381	610
	1×0.254	0.254	0.25	0.75	361	610
32	7×0.08	0.24	0.25	0.75	596	610
	1×0.20	0.20	0.25	0.70	563	610