PIR-350

产品结构

- 纯镍或镀镍铜线绞合导体，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
- 四氟带绕包绝缘
- 聚酰亚胺胶带包护套

技术数据

- 温度范围：300°C，短时间内可耐温 350°C
- 额定电压：600V
- 绝缘体积电阻率：$10^{11}\Omega \cdot cm$
- 耐辐射：经受 5×10^{7}Gy 的照射量

产品特性

- 有良好的耐热氧老化；较强的机械性能，耐磨；具有电绝缘性能好，耐电晕和局部放电，高温下绝缘性能变化小；较高的耐辐射性。在较强射线的照射下，抗拉强度和伸长率无大的变化，这一点是含氟材料无法比拟的；耐有机溶剂，耐臭氧，防霉，耐腐蚀性好；不吸水，不燃，对火焰有自熄性
- 不含有害物质，符合 ROHS 标准

应用范围

热流道、加热模具、仪器仪表、冶金、热工、石油、化工、天然气、化学品等特殊环境中

Product Structures

- Conductor: Solid nickel or nickel-plated copper wire strands. Nickel-plated copper wire performance complies with GB/T11019-2021. Conductor structure conforms to GB/T3956-2008 or customer requirements.
- Insulation: Helically wrapped PTFE tape.
- Sheath: Helically wrapped polyimide tape.

Technical data

- Temperature range: 300°C, can withstand up to 350°C for a short period of time
- Rated voltage: 600V
- Insulation volume resistivity: $10^{11}\Omega \cdot cm$
- Radiation resistance: can withstand an irradiation dose of 5×10^{7} Gy

Product Characteristics

- Excellent resistance to heat-oxygen aging: High mechanical strength and abrasion resistance. Superior electrical insulation properties with resistance to corona and partial discharge; Minimal change in insulation performance at high temperatures. Exceptional radiation resistance: Maintains tensile strength and elongation under intense radiation exposure (superior to fluorinated materials). Resistant to organic solvents, ozone, fungi, and corrosion.
- Non-hygroscopic, non-combustible, and self-extinguishing.
- Free from hazardous substances, compliant with ROHS standard.

Applications

Special environments including: Hot runner systems, heated molds, instrumentation, metallurgy, thermal engineering, petroleum, petrochemical, natural gas, and chemical industries.

技术参数 Technical Parameters

标称截面 Nominal cross section(mm^2)	导体结构 根数 / 线径 Conductor construction/ Number/size (mm)	绝缘厚度 Insulation thickness (mm)	完成外径 Final 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)	包装长度 The length of package (m)
0.5	7/0.30	0.50	1.7±0.3	39	200
0.75	11/0.30	0.50	1.9±0.3	26	200
1.0	14/0.30	0.50	2.1±0.3	19.5	200
1.5	21/0.30	0.50	2.4±0.3	13.3	200
2.0	28/0.30	0.60	2.6±0.3	10	200
2.5	35/0.30	0.60	2.8±0.5	7.98	100
4.0	56/0.30	0.80	3.4±0.5	4.95	100
6.0	84/0.30	0.80	4.4±0.5	3.3	100
10	140/0.30	0.80	5.5±0.5	1.91	100
16	228/0.30	0.80	6.8±0.5	1.21	100
25	361/0.30	0.80	8.3±0.5	0.78	100