

Article Overview

Anti-tracking in wiring units prevents surface electrical discharge that can degrade insulation and cause short circuits or fires.

What is Tracking?

Tracking is a phenomenon where a small current flows across the surface of an insulating material, often caused by dust, moisture, or other contaminants accumulating between conductive parts, such as plug blades and outlets. Over time, this can lead to insulation degradation, short circuits, and potentially fire hazards. It is particularly relevant in high-voltage or medium-voltage cables and power distribution systems.

Anti-Tracking Devices and Materials

Anti-tracking devices are designed to prevent this surface discharge. Examples include:

- o Anti-tracking plugs and connectors: These meet standards such as JIS C 2134 and JIS C 60695-2-11/12, with a comparative tracking index (PTI/CTI) of 400 or higher, ensuring resistance to surface current flow under high temperatures.
- o High-voltage bushing kits: Use stainless steel springs and nickel-plated brass grommets to prevent tracking in contaminated environments.
- o Cable insulation masterbatches: Specialized additives in polymer sheaths prevent tracking in medium-voltage cables, protecting against humidity, pollution, and electric fields while extending cable lifespan.

Applications

Anti-tracking solutions are applied in:

- o Power cords and plugs: Ensuring safe operation in household and industrial environments.
- o Medium-voltage cables: Maintaining insulation integrity in regional power distribution networks.
- o High-voltage transformer bushings: Preventing surface discharge in contaminated or humid conditions.

Benefits

- o Enhanced safety: Reduces risk of short circuits and fire.
- o Extended cable life: Prevents rapid degradation of insulation.
- o Compliance with standards: Meets regulatory requirements for electrical appliances and materials.

Wiring unit anti-tracking

Maintenance Considerations

Even with anti-tracking features, periodic inspection and cleaning are recommended, especially in environments prone to dust, moisture, or pollution, to maintain optimal performance. By integrating anti-tracking devices or materials into wiring units, manufacturers and users can significantly improve electrical safety and reliability.

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Anti-tracking sealing mastic also used to bonding and sealing for connectors of electrical equipment and heat shrinkable mould parts.

REPL Heat Shrinkable Anti Tracking tubes (RART) are used to reconstruct the electrical cable by providing insulation and tracking

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General Properties Excellent anti-tracking performance and erosion resistance. Halogen free, flame

We report on a synthesis, characterization, and thermal evaluation of a pigmented and siliconemodified medium oil alkyd insulating

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

It can be used to lay ADSS optical cables, cable outer sheaths and similar anti-electric tracking materials

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