



1kV Cold Shrink Termination



Model:	1kV
OEM and ODM Services:	Available
Enclosure:	PINEELE standard
Brand:	PINEELE, a Brand Under ZHENGXI
Form:	All- packaged Type
Scope of Application:	Suitable for industrial power distribution, voltage stabilization, and transformer protection. Widely used in commercial buildings, manufacturing plants, and utility substations.
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Published On:	22 May, 2025
Last Updated:	22 May, 2025



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Introduction

The **1kV Cold Shrink Termination Kit** is a high-performance cable accessory designed for low-voltage power systems. Utilizing cold shrink technology, this kit offers a fast, reliable, and flame-free method to terminate and insulate power cables rated up to 1kV. With excellent electrical and mechanical properties, it is ideal for applications where speed, and long-term durability are required.



What Is a Cold Shrink Termination Kit?

A cold shrink termination kit consists of pre-stretched, elastomeric silicone rubber components that contract onto the cable when a removable plastic core is extracted. Unlike heat shrink terminations, cold shrink kits do not require a torch or heat gun, making them safer and easier to install, especially in confined spaces or potentially hazardous environments.

Applications

- Low-voltage cable terminations in industrial facilities
- Utility and commercial electrical distribution systems
- Residential power networks
- Renewable energy systems (e.g., solar farms)

The 1kV Cold Shrink Termination Kit is compatible with a wide range of conductor sizes (16–400 mm²), and suitable for single-core to five-core cables.

Market Relevance and Trends

As industries move toward safer and more efficient installation practices, cold shrink technology has grown in popularity worldwide. According to IEEE reports, cold shrink solutions reduce installation time by up to 60% and eliminate risks associated with open flames. Their growing adoption is especially noted in underground distribution and retrofit projects.

Technical Specifications

- **Product Type:** 1kV Cold Shrinkable Termination Kit
- **Product No.:** LS-1 series
- **Conductor Size:** 16–400 mm²
- **Material:** Silicone Rubber
- **Continuous Operating Voltage:** 1kV
- **AC Withstand Voltage:** 7.2kV
- **5 min AC Withstand Voltage:** 8kV
- **15 min DC Withstand Voltage:** 4.5kV

Selection Guide:

Product Name	Product No.	Conductor Cross Section (mm ²)
1-Core Kit	LS-1/1.0 to LS-1/1.4	10–400
2-Core Kit	LS-1/2.0 to LS-1/2.4	10–400
3-Core Kit	LS-1/3.0 to LS-1/3.4	10–400
4-Core Kit	LS-1/4.0 to LS-1/4.4	10–400
5-Core Kit	LS-1/5.0 to LS-1/5.4	10–400






Advantages Over Conventional Heat Shrink Terminations

- **No heat required:** Safe for explosive or flammable areas
- **Faster installation:** Ideal for emergency or high-volume projects
- **Improved sealing:** Superior weather and moisture resistance
- **Flexible range:** Accommodates a wide span of cable diameters

Selection & Ordering Guide

To choose the right termination kit, consider:

- 
- Number of conductors (1 to 5)
 - Cross-sectional area of the conductor (mm²)
 - Type of insulation (XLPE, PVC, etc.)

- Installation location (indoor or outdoor)

Providing these parameters to the manufacturer ensures compatibility and optimal performance.

Referenced Standards and Industry Compliance

- **IEC 60502-4:** Power cables with extruded insulation
- **IEEE 48:** Test procedures for high-voltage cable terminations
- **EN 50393:** Type tests for cable accessories
- Recognized by utilities and OEMs globally (ABB, Schneider Electric, etc.)

FAQs

Q1: What is the lifespan of a cold shrink termination kit?

A: When properly installed, cold shrink terminations can last 25 years or more, depending on environmental conditions and usage.

Q2: Can the kit be reused?

A: No. Once the inner core is removed and the material has shrunk, it cannot be reinstalled or reused.

Q3: Are special tools required for installation?

A: No special tools are needed. Only standard cable preparation tools and protective gear are required.

Conclusion

The 1kV Cold Shrink Termination Kit offers a smart, modern solution for safe and efficient cable termination in low-voltage applications. With simplified installation, wide compatibility, and compliance with global standards, it is an ideal choice for professionals seeking reliability and performance.





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