

Cold Shrinkable Straight Joint

This cold shrinkable straight joint is suitable for polymeric cables insulated with PVC, PE and XLPE up to 8.7/15(17.5)kV. It can be used for copper or aluminum alloy conductors and is fully tested in accordance with IEC 60502-4.



ADDITIONAL IMAGES



Product Overview

Reliable Cable Connectivity

The Cold Shrinkable Straight Joint is designed for high-performance electrical power transmission and distribution systems. Engineered for cables insulated with PVC, PE, and XLPE, this solution provides outstanding resilience and a tight, secure fit without the need for heat sources or torches. Its silicone-rubber construction ensures long-term reliability through excellent hydrophobicity, UV resistance, and anti-tracking properties.

Technical Specifications

Voltage Rating	Up to 8.7/15(17.5) kV
Compatible Cable Insulation	PVC, PE, XLPE
Conductor Compatibility	Copper, Aluminium Alloy

Key Features

Installation Advantages

- No tools, torches, or heat sources required
- Components pre-expanded on easy-to-remove spiral holdout
- Integrated geometric stress control
- Void-filling mastic reduces positioning errors

Testing & Compliance

Test	Requirements
AC and DC voltage	AC for 5min at 4.5 U ₀ and DC for 15min at 4 U ₀
AC (wet) (for outdoor application)	1min at 4U ₀
Partial discharge	10 pC max. at 1.73 U ₀
Impulse at θt	10 impulses of each polarity
Heating cycles in air	60 cycles at θt and 2.5 U ₀
Immersion test (for outdoor application)	10 cycles at θt
Partial discharge at θt and ambient temperature	10 pC max. at 1.73 U ₀
Thermal short-circuit(screen)	Two short-circuits at θ /sc of the cable screen. No visible deterioration.
Thermal short-circuit(conductor)	Two short-circuits to raise conductor to θ /sc of the cable. No visible deterioration.
Dynamic short-circuit	One short-circuit at θ /sc. No visible deterioration.
Impulse	10 impulses of each polarity
AC voltage	15min at 2.5 U ₀
Humidity (for indoor application)	300h at 1.25 U ₀
Salt fog (for outdoor application)	1000h at 1.25 U ₀

Detailed testing parameters ensuring compliance with international standards for reliability and environmental resilience.

Performance Testing Summary

Test Category	Requirement/Criteria
AC Voltage Test	15min at 2.5 U ₀
Partial Discharge	10 PC max at 1.73 U ₀
Impulse Test	10 impulses of each polarity
Humidity (Indoor)	300h at 1.25 U ₀
Salt Fog (Outdoor)	1000h at 1.25 U ₀

Compliance Standard	IEC 60502-4
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