CATEGORY: NEUTRAL SECTION INSULATOR

XFXP-1.8T-C Neutral Section Insulator (25kV)

Reference URL: https://en.chuangwit.com/phase-insulator/xfxp-18t-classic.html

1. Product Overview

Classic neutral section insulator per TB/T 3037-2002 for phase separation on 25kV AC railway, up to 160 km/h. Download Technical Datasheet (PDF) Technical Specifications | The XFXP-1.8T classic neutral section insulator complies with TB/T 3037-2002, the current railway industry standard for phase separation insulators (general technical requirements per the current TB/T 2075 series) used in electrified railway overhead contact systems. It provides electrical separation between different supply phases on 25kV AC catenary, allowing trains to coast through neutral sections safely. | This classic variant uses a time-proven structure that has been validated over years of service on Chinese railways. High-strength insulating elements, arc-resistant runners and aluminum alloy connection fittings form a robust assembly rated for 27.5kV systems, line speeds up to 160 km/h (sub-model dependent), -40 deg C to +70 deg C and altitudes up to 4,000 m. | The insulator is installed in series with the contact wire at neutral section locations and is used together with trackside automatic phase-breaking

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	XFXP-1.8T-C
Drawing No.	CWLXP1.8T-C-00
Standard	TB/T 3037-2002 Phase Separation Insulators for Electrified Railway OCS
Rated Voltage	27.5kV rated (25kV AC 50Hz single-phase, inter-phase sectioning)
Design Speed	Up to 160 km/h
Operating Temperature	-40 deg C to +70 deg C
Altitude	<= 4,000 m
Materials	High-strength insulating elements; arc-resistant runners; aluminum alloy connection fittings
Installation	Series-mounted in the contact wire at neutral sections; used with trackside automatic phase-breaking equipment
Nominal Voltage	25kV
Altitude	<=4000m
Ambient Temperature	-40 deg C~+70 deg C
Max. Design Speed	<=160km/h
Tensile Failure Load	>=75kN
Creepage Distance	>1800mm
Power-Frequency Wet Withstand Voltage	>=130kV
Lightning Impulse Withstand Voltage (1.2/20us)	>=270kV

XFXP-1.8T-C Neutral Section Insulator (25kV) - Continued

3. Operating Conditions

Continuous outdoor service at neutral sections from -40 deg C to +70 deg C, altitudes to 4,000 m, including polluted and humid environments.

4. Mechanical Performance

Proven load path with aluminum alloy fittings carrying contact wire tension; smooth pantograph passage at up to 160 km/h.

5. Electrical Performance

High-strength insulating elements and arc-resistant runners provide inter-phase separation per TB/T 3037-2002 for 27.5kV systems.

6. Typical Applications

Neutral Sections | Phase separation between substation supply zones on 25kV AC lines. | Auto Phase-Breaking | Works with trackside automatic neutral-section passage systems. | Humid & Rainy Regions | Arc-resistant runners for wet-climate reliability. | Cold Regions | Operation down to -40 deg C.

Engineering & Quality Compliance Notice

Manufactured under ISO 9001 and CRCC product certification rules where applicable. All values mirror published site specifications.
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