CATEGORY: NEUTRAL SECTION INSULATOR

XFXP-1.8T-2021 Neutral Section Insulator (25kV)

Reference URL: https://en.chuangwit.com/phase-insulator/xfxp-18t-2021.html

1. Product Overview

2021-version neutral section insulator per TB/T 3037-2002 for 25kV AC railway catenary, up to 160 km/h. Download Technical Datasheet (PDF) Technical Specifications | The XFXP-1.8T neutral section insulator (2021 model) complies with TB/T 3037 for phase separation on 25kV AC electrified railway catenary. The 2021 update refines the proven XFXP structure for more convenient installation and maintenance while preserving reliable inter-phase insulation. | High-strength insulating elements, arc-resistant runners and aluminum alloy fittings form the 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 unit is series-mounted in the contact wire at neutral section locations and operates together with trackside automatic phase-breaking equipment, ensuring trains pass the neutral zone safely at line speed. | Henan Chuangwit Railway Equipment Co., Ltd. supplies the 2021 model with complete documentation. Contact us for datasheets and project pricing. | Frequently Asked Questions | What changed in the 2021

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	XFXP-1.8T-2021
Drawing No.	CWLXP1.8T-21-00
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	27.5kV (System Voltage 25kV AC)
Altitude	<=4000m
Ambient Temperature	-40 deg C~+70 deg C
Max. Design Speed	<=160km/h (designed per TB/T 3037-2002)
Tensile Failure Load	>=75kN
Creepage Distance	>1800mm
Power-Frequency Wet Withstand Voltage	>=130kV
Lightning Impulse Withstand Voltage	>=270kV

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3. Operating Conditions

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

4. Mechanical Performance

2021-refined structure for convenient installation and maintenance; smooth pantograph passage at up to 160 km/h.

5. Electrical Performance

Inter-phase separation per TB/T 3037 with high-strength insulating elements and arc-resistant runners for 27.5kV systems.

6. Typical Applications

Neutral Sections | Phase separation on 25kV AC mainlines. | Auto Phase-Breaking | Compatible with trackside automatic passage systems. | Humid & Rainy Regions | Arc-resistant runners for wet climates. | 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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