CATEGORY: SECTION INSULATOR

FYFH-1.8AT Shuttle Section Insulator (25kV)

Reference URL: https://en.chuangwit.com/sectioning-insulator/fyfh-18at-typeb.html

1. Product Overview

Shuttle-type Type B section insulator per TB/T 3036-2016 for 25kV AC railway OCS, up to 200 km/h. Download Technical Datasheet (PDF) Technical Specifications | The FYFH-1.8AT shuttle-type section insulator (Type B) is designed and manufactured per TB/T 3036-2016 for in-phase electrical sectioning of 25kV AC 50Hz single-phase electrified railway overhead contact systems. The Type B shuttle profile offers a particularly smooth pantograph transition and enhanced arc-resistance performance for busy mainline sectioning points. | A high-strength aluminum alloy body carries the contact wire tensile load; arc-resistant insulating elements (silicone rubber or porcelain) separate the two electrical sections. The unit is rated for 27.5kV systems, line speeds up to 200 km/h (Type B rated, designed per TB/T 3036-2016), -40 deg C to +70 deg C operating temperature and altitudes up to 4,000 m. | The shuttle geometry keeps the pantograph carbon strip in controlled contact through the insulating zone, limiting contact force peaks and reducing wear on both strip and insulator runners. | Installed as an

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	FYFH-1.8AT
Drawing No.	CWLFD1.8AT-00
Standard	TB/T 3036-2016 Section Insulators for Electrified Railway OCS
Rated Voltage	27.5kV rated (25kV AC 50Hz single-phase traction supply)
Design Speed	Up to 200 km/h (designed to TB/T 3036-2016)
Operating Temperature	-40 deg C to +70 deg C
Altitude	<= 4,000 m
Materials	High-strength aluminum alloy body; arc-resistant insulating elements (silicone rubber / porcelain)
Installation	In-line series suspension on the contact wire; both ends mechanically connected to the contact wire
Nominal Voltage	27.5kV (System Voltage 25kV AC)
Air Clearance	>=300mm
Altitude	<=4000m
Ambient Temperature	-40 deg C~+70 deg C
Max. Design Speed	<=200km/h (designed per TB/T 3036-2016)
Applicable Standard	TB/T 3036-2016 (Section Insulators for Electrified Railway Catenary)

3. Operating Conditions

Designed for continuous outdoor railway service from -40 deg C to +70 deg C at altitudes to 4,000 m, including humid and polluted atmospheres.

FYFH-1.8AT Shuttle Section Insulator (25kV) - Continued

4. Mechanical Performance

Shuttle-type profile with controlled pantograph contact through the insulating zone; aluminum alloy body carries full contact wire tension.

5. Electrical Performance

Enhanced arc-resistant insulation provides in-phase separation per TB/T 3036-2016 for 27.5kV systems, verified by type tests.

6. Typical Applications

Busy Mainlines | Smooth transition and arc resistance for heavily used sectioning points. | Stations & Depots | In-phase separation at station throats and depot entrances. | Humid & Rainy Regions | Reliable insulation in 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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