CATEGORY: SECTION INSULATOR

FYFH-1.8BT Inter-Phase Section Insulator (25kV)

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

1. Product Overview

Shuttle-type Type B inter-phase 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-1.8BT shuttle-type section insulator (Type B inter-phase variant) is designed and manufactured per TB/T 3036-2016 for inter-phase electrical sectioning on 25kV AC electrified railway overhead contact systems. Compared with the FYFH-1.8AT in-phase variant, the -BT version adds enhanced creepage distance and reinforced insulation geometry to handle inter-phase stress where adjacent OCS sections belong to different supply phases. | A high-strength aluminum alloy body carries the contact wire tensile load; arc-resistant insulating elements (silicone rubber or porcelain) with reinforced creepage provide inter-phase separation. Rated for 27.5kV systems, line speeds up to 200 km/h, -40 deg C to +70 deg C operating temperature and altitudes up to 4,000 m. | Typical applications include inter-phase sectioning points on mainline railways and at substation feeding boundaries. The unit is installed in-line with the contact wire as a

2. Published Technical Specifications & Parameters

Parameter	Published Value / Specification
Model	FYFH-1.8BT
Drawing No.	CWLFD1.8BT-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); reinforced creepage
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 and inter-phase feeding boundaries.

FYFH-1.8BT Inter-Phase 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; reinforced creepage geometry.

5. Electrical Performance

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

6. Typical Applications

Inter-Phase Sectioning | Sectioning points where adjacent OCS sections belong to different supply phases. | Substation Feeding Boundaries | Boundaries between traction substation feeding zones. | Polluted & Coastal Areas | Reinforced creepage withstands high-pollution environments. | 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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