



RIBE® Electrical Fittings - Catenary fittings for electric railways

LIGHTWEIGHT SECTION INSULATOR

FOR HIGH SPEED LINES



RIBE[®]
ELECTRICAL FITTINGS



RIBE® Electrical Fittings – Lightweight Section Insulator

APPLICATION AREAS

The RIBE® section insulator electrically divides the overhead line on high-speed lines into individual sections, thus electrically isolating the switching or feeder sections.

The section insulator is designed for use with pantographs of electric traction vehicles for operational speeds up to 200km/h.

The RIBE® section insulator is qualified for application in areas with heavy air pollution. This has been achieved by a PTFE coating of the insulator rod, extended creepage distance and increased arcing horn distance.

The resulting arcs on the section insulator are extinguished quickly and effectively. Correspondingly, it is in conjunction with corrosion-resistant materials that lead to a long lifetime and sustainability.

▶ PROVEN QUALITY

The pioneering RIBE® solution is based on decades of experience in the field of electrical fittings, which is one of the reasons why customers trust innovative and reliable products from RIBE® that set the standards in the electrical fittings market.



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FEATURES

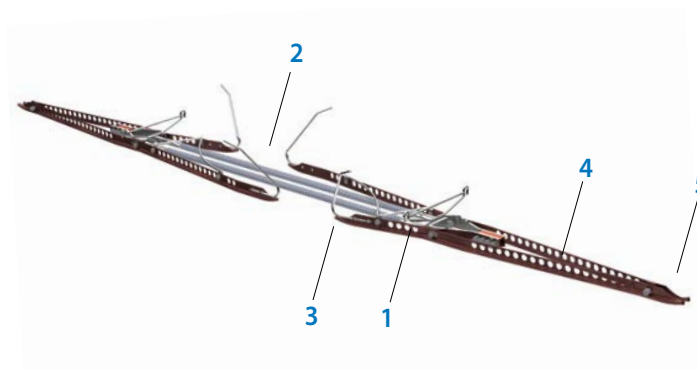
- Suitability for operational speeds up to 200 km/h
- Good dynamic properties due to low weight per length
- Lightweight design
- Long life time of the runners due to reinforcements
- Use of stainless steel A4 for better resistance to corrosion
- Easy cleaning of the insulator rod, due to PTFE coating
- Easy installation through the use of an assembly tool
- Extended creepage distance and increased arcing horn distance compatible with heavily polluted regions and for any ambient conditions

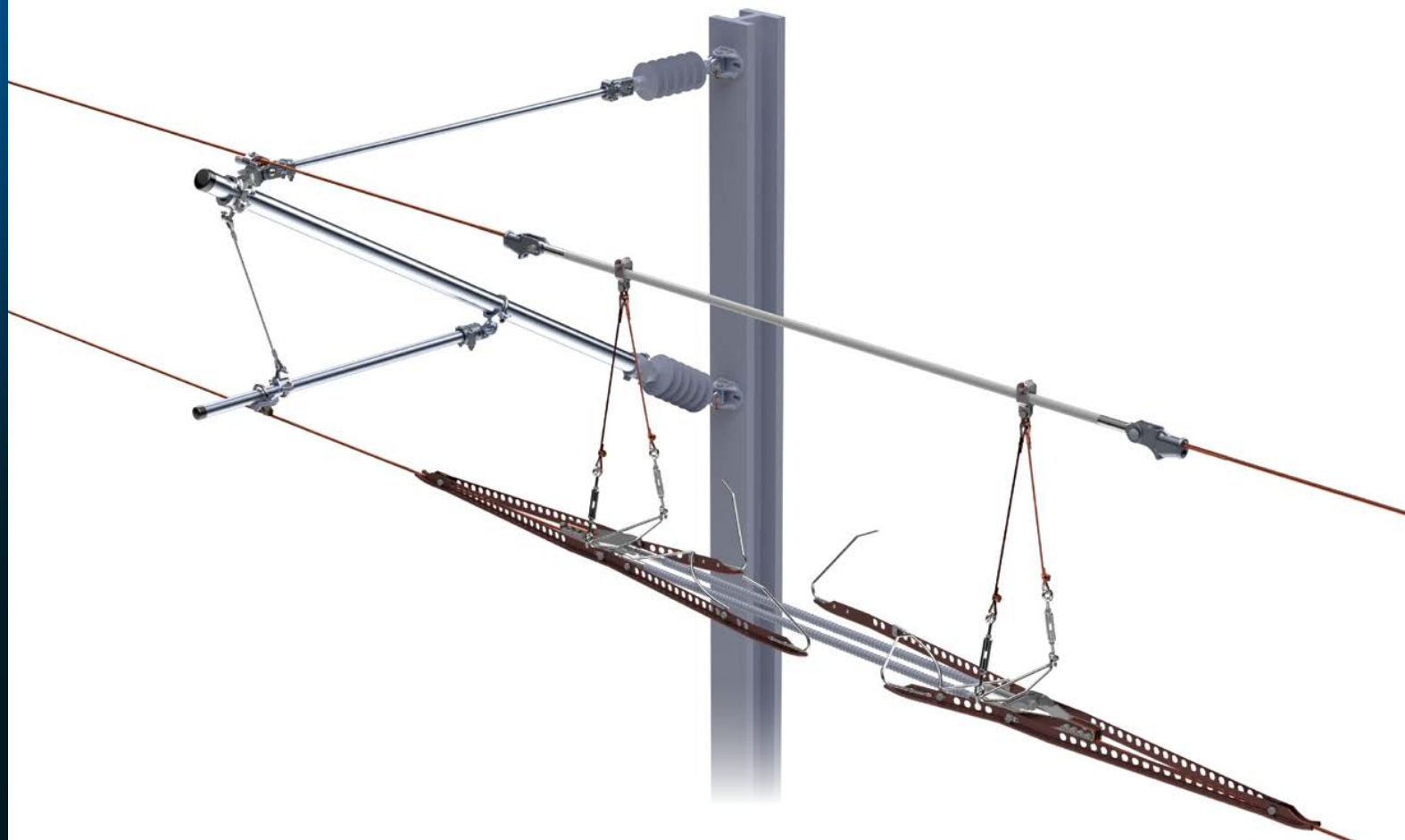


ASSEMBLY

The RIBE® section insulator consists of the following main components:

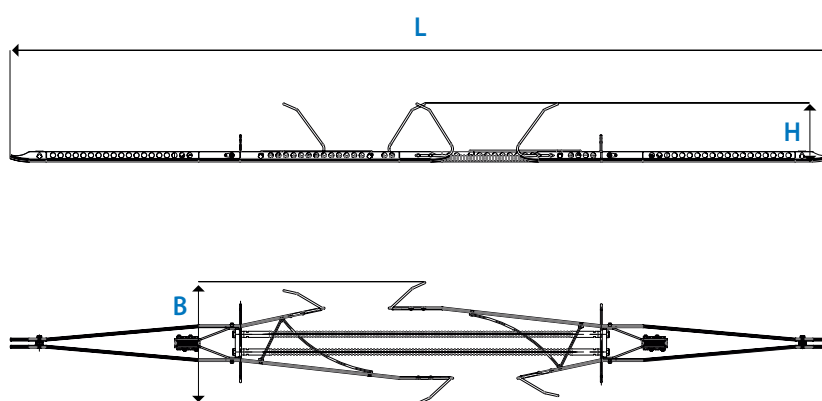
- Insulator body **1**
- Runner left incl. arcing horn **2**
- Runner right incl. arcing horn **3**
- Contact wire clamp **4**
- Dropper clamp **5**





TECHNICAL DETAILS

B656001			
Length L	3447 mm	Nominal force	120 kN
Width B	508 mm	Creepage distance	1650 mm
Height H	248 mm	Air gap	250 mm
Weight	22,9 kg	Number of insulators	2
Max. permissible operating force	30 kN	Number of contact wires	1
Max. normal voltage	25kV AC		



MATERIAL

B656001	
End parts	Stainless steel A4
Insulator rod	Glass fibre reinforced plastic + PTFE casing
Copper runners	Copper
Arcing horn	Stainless steel A4
Contact wire clamp & Dropper clamp	Copper alloy
Standard parts	Stainless steel A4

TESTS AND STANDARDS

The section insulator was subjected to the following tests:

- Mechanical load time test
- Tensile test
- Electrical tests

According to the following Standards/ Specifications:

- DIN EN 50119
- IEC 61109

COMPETENCE CONNECTS



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