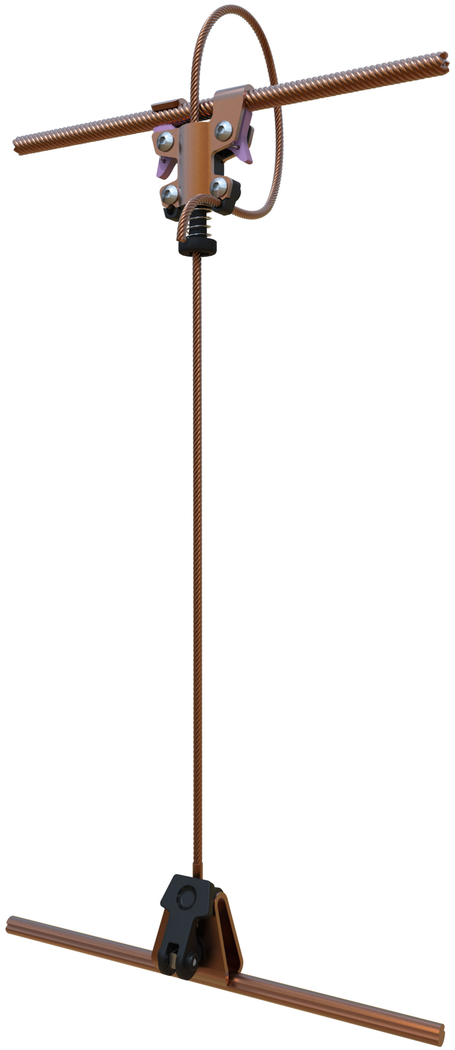
Technical Data Pack

SwiftLine Rail Dropper

Fully adjustable, conductive OLE dropper



Applications

Overhead Line Electrification

Product Specification

Material - Top Dropper

- Housing: Copper Sheet - C101 Half Hard
- Cam & Wedge: SINTOX FA
- Core: EMS Grivory (GV-5HL)
- Carriage & Button: Impact Modified Polyoxymethylene
- Torsion Spring: Stainless Steel (316)
- Compression Spring: Stainless Steel (316)
- Bolts: A4 Stainless (316)

Material - Contact Clamp

- Housing: Copper Sheet - C101 Half Hard
- Lever Stem: Stainless Steel (316)
- Lever and Lever washer: EMS Grivory (GV-5HL)
- Plain Washer: A4 Stainless (316)
- Lever Pin: Stainless Steel (316)
- Wire Crimp: C101 Copper (Cu-ETP)

Compatibility

	Top Dropper	Contact Clamp
Centenary / Contact Wire Acceptance	ø 10.5 mm	ø 5.5 mm - ø 5.8 mm
Dropper Wire Acceptance	4.6 mm (pre-assembled)	

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Approvals

BS EN 5011	Certificate of Acceptance (Network Rail)	RISQS Verified	Master series reference number C99/ F01/006	FOT Federal Office of Transport of the Swiss Confederation
UK	UK	UK	UK	SWITZERLAND

- RISQS Approval
  RISQS (Rail Industry Supplier Qualification Scheme) verified to supply into both Civil and Electrification applications. RISQS provides verification by an independent industry scheme and demonstrates compliance with UK and EU procurement.

- Network Rail Product Approval:
  The product acceptance process gives Network Rail the assurance that products accepted for use on their infrastructure are:
  - Safe
  - Compatible
  - Reliable
  - Fit for purpose
  - Do not export unacceptable risks to Network Rail infrastructure

  *Only accepted products can be used on Rail infrastructure.

- FOT Federal Office of Transport of the Swiss Confederation
  Serial approval N° zr424_ea_00113
  In accordance with Article 7 OCF
  Valid until 31.12.2053

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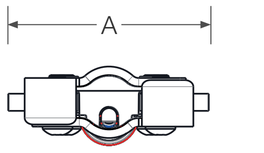
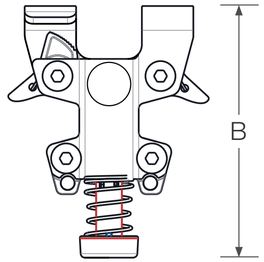
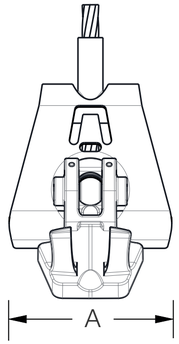
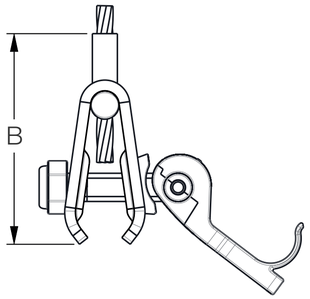
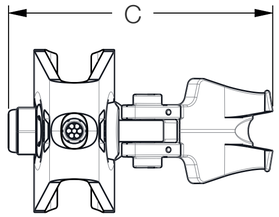
Dimensions











Top Dropper

A	70.12 mm
B	87.9 mm
C	27.5 mm

Contact Clamp

A	45.53 mm
B	58.98 mm
C	73.97 mm

Packaging

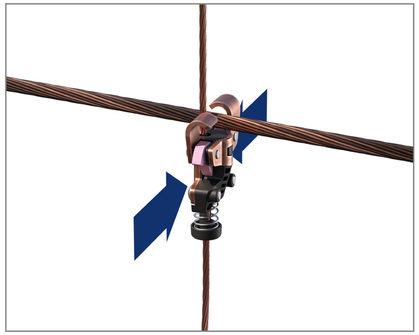
Kit Type	Kit Contents	Max Drop Length	Weight / Kit	Quantity / Box
GRD-10.5-KIT-1.1M	ø 10.5 mm Rail Dropper, 1.4 m of ø 4.6 mm Dropper Cable & Contact Clamp	1.1 m	368 g	10 / Box
GRD-10.5-KIT-1.4M	ø 10.5 mm Rail Dropper, 1.7 m of ø 4.6 mm Dropper Cable & Contact Clamp	1.4 m	396 g	10 / Box
GRD-10.5-KIT-1.8M	ø 10.5 mm Rail Dropper, 2.1 m of ø 4.6 mm Dropper Cable & Contact Clamp	1.8 m	433 g	10 / Box
GRD-10.5-KIT-2.2M	ø 10.5 mm Rail Dropper, 2.5 m of ø 4.6 mm Dropper Cable & Contact Clamp	2.2 m	470 g	10 / Box

Testing

Type of Testing	Description
Mechanical Testing	Mechanically tested to BS EN 50119
Electrical Testing	Fully conductive and electrically tested to BS EN 50119 Tested to 100A for 30 mins without exceeding 120°C Tested to 1.8kA for 1 second without exceeding 170°C
Corrosion Testing	Salt spray tested for 720 hours
UV Testing	Tested in accordance with ISO 4892-2 using the Florida method of exposure for 1000 hours

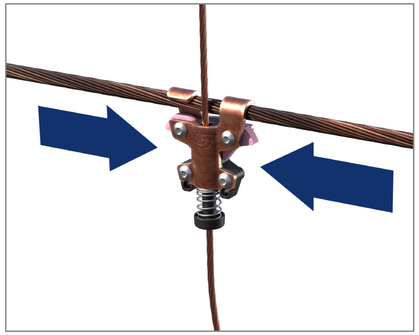
Installation

1



Fix the Top Dropper to the catenary wire using a quarter turn nature.

2

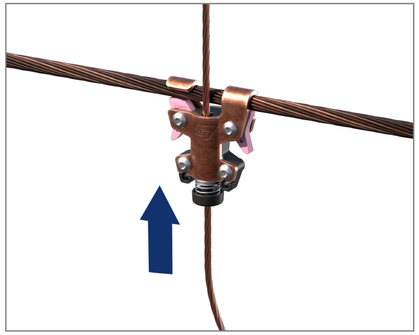


Adjust Top Dropper horizontally by compressing the two CAMs simultaneously (as shown) until it is in the correct position. Release the CAMs to lock the Top Dropper in position.

3

Fix the Contact Clamp to the Contact Wire by placing the Clamp onto the anvil and flipping the lever to apply clamping force. The two hooks should hook fully over the Contact Clamp (as shown).

4



Compress the release button and pull the vertical wire upwards to adjust the length of the drop to the length which is needed (as shown).

5

Wrap the excess wire which is above the Top Dropper around to the opposite side of the housing and push it through the lower hole (as shown) to allow it to operate as a fail safe.