UNCHAINED ENERGY



ELECTRIFICATION OF TRAVELLING MACHINES





As with the entire MOBILIS range, everything has been designed to facilitate the mounting process:

HIGHLIGHTS

- suspensions pre-assembled in multiple pole units:
- the profile easily slots into the suspensions by a simple clipping process;
- many parts, such as covering flanges, feed boxes etc. are mounted without tools, screws or nuts;
- all accessories are factory mounted.

MOBILIS MOVIT®: **ELECTRIFICATION LINE WITH SINGLE POLE CONDUCTOR RAILS** 315A - 450A - 630A

HIGHER PERFORMANCE

Designed in aluminium with a stainless steel track for the contact surfaces, it offers you high conductivity, light weight, competitive production costs and flexibility of shape.

With a clearance between rails of 50 mm, the aesthetic, compact design takes up minimum space and minimises voltage drops due to its low line impedance.

HIGHLY PRACTICAL

Numerous features make MOBILIS MOVIT easy to integrate, install and use:

- simply sliding and clipping into the suspensions
- compact connection requiring minimum preparation
- high-speed collector travel (up to 600 m/min.)
- long-distance lines without expansion joints

GREATER SAFETY

Security and working safety are the key-words for the entire range in total respect of the regulations and standards in force. The installed rail offers a protection index of IP 23, the PVC insulating envelope is fluted, thereby increasing insulation clearance, the collector brush has innovative reinforced insulation, the shape of the contact track enhances the quality and reliability of current collection, the quality of the materials and the care taken at every stage guarantee a long life.



Just like the entire MOBILIS range, this rail has benefited from all the power of industrial design by combining performance, ergonomics, aesthetics and economic reality.

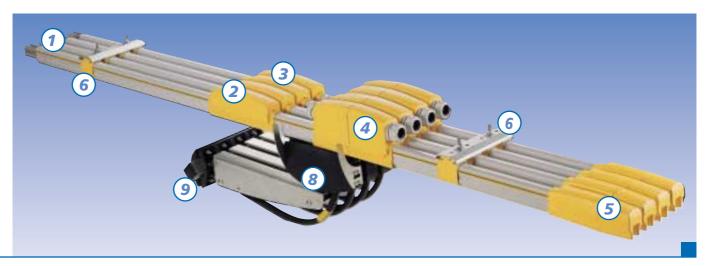


A VAST ARRAY OF APPLICATIONS

With this particularly powerful single-conductor rail, whole new fields of demanding applications can now benefit from the innovations and top performance of the MOBILIS range:

- handling of heavy loads;
- port industries ;
- high-capacity overhead cranes;
- gantries ;
- human transport (peoplemover, monorails in amusement parks etc.).





GENERAL FEATURES

Conformance to standards CEI60439-2 and EN60204-32 - Protection index IP23 according to CEI60529. Maximum operating voltage: 750 VAC - Minimum and maximum ambient temperatures: -30°C to +55°C. Resistance to short circuits: please consult us beyond Icw 8.5 kA 0.2s and Ipk 17kA. All plastic accessories are self-extinguishing.

1 RAILS

Aluminium conductor with stainless steel track. Self-extinguishing insulation in rigid PVC.

Duty cycle at 35°C: 100% for 315 and 450A, 75% for 630A.

| | Weight per metre | Impedance in | | | | | Special |
|---------------|------------------|-------------------------------|----------|----------|----------|---------|---------|
| Intensity | per rail | 3-phase 50 Hz 35°C | 4 metres | 3 metres | 2 metres | 1 metre | length |
| 315 A - phase | 0.81 kg | 2.27 x 10 ⁻⁴ 0hm/m | MC1314 | MC1313 | MC1312 | MC1311 | MC1310 |
| 315 A - earth | | | MC1324 | MC1323 | MC1322 | MC1321 | MC1320 |
| 450 A - phase | 1.02 kg | 1.72 x 10 ⁻⁴ Ohm/m | MC1414 | MC1413 | MC1412 | MC1411 | MC1410 |
| 450 A - earth | - 1.03 kg | | MC1424 | MC1423 | MC1422 | MC1421 | MC1420 |
| 630 A - phase | 1.26 kg | 1.49 x 10 ⁻⁴ Ohm/m | MC1614 | MC1613 | MC1612 | MC1611 | MC1610 |
| 630 A - earth | 1.20 kg | | MC1624 | MC1623 | MC1622 | MC1621 | MC1620 |



(2) CONNEXION

Reference: MC1000 For the feed box and each junction between the rails, standard for all intensities.

Weight: 0.3 kg



3 FLANGE

Reference: MC2200 Insulates the connections, no-tools assembly. Thermoplastic. Weight: 0.17 kg, Length: 250 mm.



4 FEED BOX

Reference: MC2300

For line link-up to a connection, with terminal lugs Ø10,

2 cable glands.

M32 (cable Ø 15 to 25 mm).

Thermoplastic. Weight: 0.36 kg, length: 290 mm.



(5) TRANSFER ELEMENT-END CAP

Reference: MC2400To insulate the ends and create transfer points,

no-tools assembly. Thermoplastic. Weight: 0.14 kg, length: 190 mm.



6) SLIDING SUSPENSION

Supports rails and allows for rail expansion.

Clearance 50 mm, self-aligning. To be installed every 2 metres. **Thermoplastic** and anodised aluminium.



| Number of poles | Weight | Reference | |
|-----------------|---------|-----------|--|
| 4 | 0.3 kg | MC2504 | |
| 5 | 0.38 kg | MC2505 | |

8) COLLECTOR

Collector current capacity:

single = 200A,double = 400A.

Duty cycle: 50% at 35°C. Maximum travel speed:

600 m/min.

Lateral clearance +/-100 mm, vertical clearance +/-50 mm. Delivered with 50 mm² flexible cable,

length 2 metres.

| Туре | Phase | Terre | Poids |
|--------|--------|--------|---------|
| Simple | MC4112 | MC4122 | 3,85 kg |
| Double | MC4212 | MC4222 | 7,50 kg |

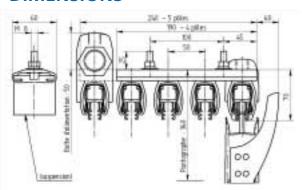
(11) EXPANSION JOINT

Compensates expansion on lines over 200 metres in length. Assembled like the rail elements, nominal length 4 m to be adapted according to the assembly temperature.



| Intensity | Weight | Reference | |
|---------------|--------|-----------|--|
| 315 A - phase | 6.2 kg | MC5314 | |
| 315 A - earth | 0.2 ky | MC5324 | |
| 450 A - phase | 7.0 kg | MC5414 | |
| 450 A - earth | 7.0 kg | MC5424 | |
| 630 A - phase | 7.9 ka | MC5614 | |
| 630 A - earth | 1.7 kg | MC5624 | |

(13) DIMENSIONS



FIXING CLAMP

Reference: MC2600 2 clamps placed on either side of a sliding suspension to immobilise a pole. Anodised aluminium. Weight: 0.07 kg, length 40 mm.



9) COLLECTOR BRACKET

Reference: MC4900

For single and double collectors up to 5 poles. Galvanised steel.

Weight: 2 kg, length: 500 mm.



Reference: MC2550

To mount sliding suspensions on the support structure. Clamping capacity: thickness 15 to 30 mm. width 300 mm. Galvanised steel.

Weight: 1.1 kg.



(12) MISCELLANEOUS

Supply connection lugs

50 mm² terminal 10 reference MC8050 70 mm² terminal 10 reference MC8070 95 mm² terminal 10 reference MC8095

 Contact grease for 200 connections

reference MC1010

• Brush to prepare the rail ends

reference MC8010

 Suspension unclipping kit

reference MC8025

• Replacement brush for collector

reference MC8040

 Single cleaning collector

reference MC4190

MOBILIS ELITE:

ELECTRIFICATION LINE WITH MULTI-POLE CONDUCTOR RAILS 20A TO 200A

MOBILIS ELITE: ENERGY IN MOTION

MOBILIS ELITE is the range that has been the industrial reference for many years now. It is designed in cooperation with the Plastics Technology Centre for eastern France and the Engineering Institute for the Application of High Polymers and totally meets the needs of most integrators, installers and users of lifting equipment ranging from 20 A to 200 A. With its myriad innovations and aesthetic touch, it has inaugurated the permanent features of the MOBILIS range offering solutions that meet professional requirements in terms of performance, safety, flexibility and cost-effectiveness.



A broad range of accessories are available:

- clip-on suspensions for rapid mountingdismantling • no-tools feed box and covering flange • factory-mounted protection lips (option)
- · various models of trolleys according to the application etc.





MOBILIS MOVIT - MOBILIS ELITE: The dream team





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