UNCHAINED ENERGY



ELECTRIFICATION OF TRAVELLING MACHINES



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
- suitable for inside or outside installation

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:

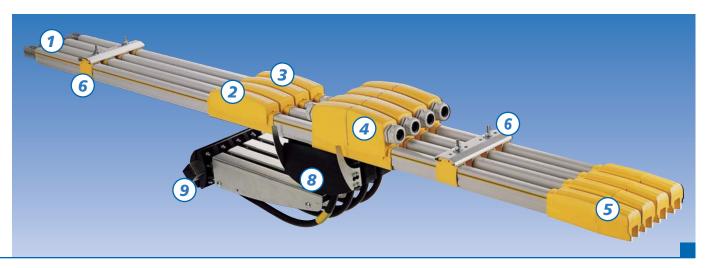
- handling of heavy loads;
- port industries ;
- high-capacity overhead cranes;
- gantries ;
- human transport (peoplemover, monorails in amusement parks etc.).





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

- 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.



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	0.01 kg		MC1324	MC1323	MC1322	MC1321	MC1320
450 A - phase	102 6-	1.72 x 10 ⁻⁴ Ohm/m	MC1414	MC1413	MC1412	MC1411	MC1410
450 A - earth	1.03 kg	1.72 X 10 7 UIIIII/III	MC1424	MC1423	MC1422	MC1421	MC1420
630 A - phase	1.26 kg	1.49 x 10 ⁻⁴ 0hm/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: MC2400
To 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

Maximum travel speed: 600 m/min.



Туре			
Feature	Single 60A	Single 200A	Double 400A
Order N° Phase	MC4162	MC4112	MC4212
Order N° Earth	MC4172	MC4122	MC4222
Weight	1,30 kg	3,85 kg	7,50 kg
Duty cycle factor fix	40% ED / 5 min 35°C	50% ED / 5 min 35°C	
Duty cycle factor moving	100% ED 35°C	100% ED 35°C	
Lateral clearance	+/- 30 mm	+/- 100 mm	
Vertical clearance	+/- 30 mm	+/- 50 mm	
With flexible cable	6 mm² length 2 m	50 mm² length 2 m	

(11) EXPANSION JOINT

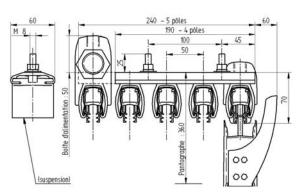
Compensates expansion on lines over 250 metres in length. Assembled like the rail elements, nominal length 4 m to be adapted according to the assembly temperature.



Same items for all intensities.

Intensity	Weight	Reference	
315 - 450 - 630 A - Phase	7,9 kg	MC5614	
315 - 450 - 630 A - Earth	1,5 kg	MC5624	

(13) DIMENSIONS



(7) 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 200A and double collectors up to 5 poles. Galvanised steel.

Weight: 2 kg, length: 500 mm.

MC 4960: for collectors 60A.



10) FIXING BRACKET

To mount sliding suspensions on the support structure.
Clamping capacity: thickness 6 to 20 mm or 15 to 32 mm, width 300 mm.
Galvanised steel.



Length	Weight	Reference 6 to 20	Reference 15 to 32
590 mm	1,1 kg	MC2551	MC2550
700 mm	1,3 kg	MC2571	MC2570

2 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 MC8041

 Single cleaning collector

reference MC4190

• Cleaning brush

reference MC8005

Grinding brush Circuit interruption

element / 4 m

n 315A: reference MC1354

450A: reference MC1454 630A: reference MC1654

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

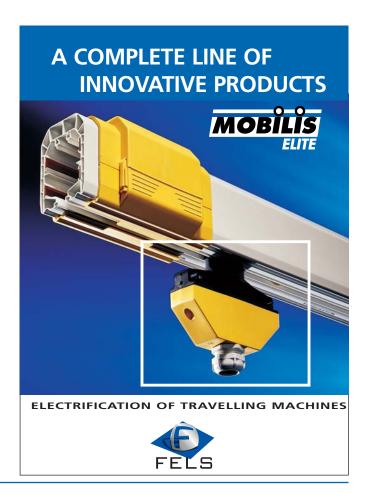
MOBILIS ELITE®: ENERGY IN MOTION

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.

ACCESSORIES

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



