

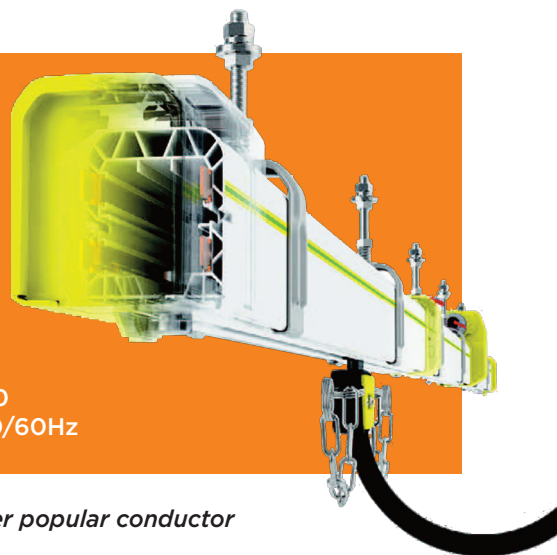
## Conductor Systems

### Mobilis INNO Enclosed Conductor System

#### Introduction

Mobilis INNO is a high quality enclosed multi-pole conductor system distributed exclusively in the UK by SIMBAL Ltd. Mobilis INNO is available in a 4 pole configuration using copper conductors with intensities of 40Amp & 60Amp. The use of copper provides improved conductivity compared with competitor galvanised steel systems hence reducing voltage drop and allowing use of smaller systems for a given application.

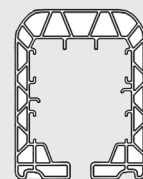
Mobilis INNO is suitable for operating temperatures from -30 up to +55°C, and has a rated operational voltage of 690V 50/60Hz



*Mobilis INNO offers many advantages when compared with other popular conductor systems as follows :*

#### CELLULAR STRUCTURE

The cellular design of the Mobilis INNO section provides a lightweight and strong profile and gives excellent rigidity to the PVC casing, this rigidity ensures that the narrow lower opening prevents accidental contact with the conductor elements.

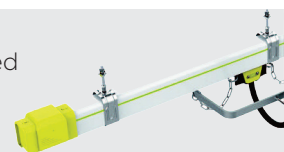


#### PERFORMANCE & ECONOMY

MOBILIS INNO has all the advantages of high quality design and manufacture at a competitive price. When combined with the cost savings associated with quick and easy installation the result is a high quality economical solution to most applications.

#### RELIABILITY

Product reliability is guaranteed by the use of high quality materials combined with strict quality control procedures throughout the design and manufacturing process.

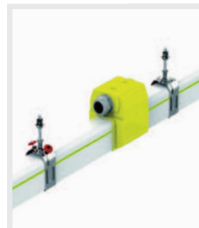
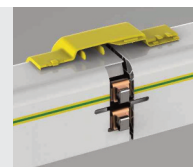


#### SIMPLE INSTALLATION

The design of MOBILIS INNO is largely based around the principle of fast and easy installation. With connections that are an integral part of the conductor element and clip on covers and support brackets, installation is trouble free without the need for special tools.

#### CLIP IN CONNECTION - NO TOOLS REQUIRED

Connection of the INNO conductor bars is made using a simple 'clip in' procedure requiring no tools, simply engage the clip and push home the spring, the connection is confirmed by a click. A tool is provided to disengage the connection if required.



#### EASY MAINTENANCE

Joint covers, feed boxes and support brackets are all designed to clip together for fast and easy installation, however safety regulations state that removal of these components should not be possible without the use of a tool. With MOBILIS INNO all these components can be removed using a single, small flat blade screwdriver ensuring that maintenance or dismantling tasks can be carried out quickly without the need for any special tools.

# Conductor Systems

## Mobilis INNO Enclosed Conductor System

### Specification and Technical Details

- Standard Intensities: 40A, 60A
- End feed, line feed or multiple feed points available
- 2000mm support centres

### Technical Data

Intensity	40 Amp	60 Amp
Conductor section	Copper 9.5mm <sup>2</sup>	Copper 14.4mm <sup>2</sup>
Max current 100% duty cycle 35/40° C	62A / 58A	78A / 72A
No. of Poles	4	4
Weight (kg/m)	1.30	1.50
Code – 4m length	MI 4404	MI 4604
Code – 3m length	MI 4403	MI 4603
Code – 2m length	MI 4402	MI 4602
Code – 1m length	MI 4401	MI 4601
Code – Special Length	MI 4400	MI 4600

### Typical Assembly



### Technical Information

Intensity	40 Amp	60 Amp	Ambient temperature	Duty cycle	Intensity	
R @ 20 deg C	18.3	12.4	35 deg C	80%	40A	60A
R @ 30 deg C	19.4	13.2			64A	85A
R @ 40 deg C	19.8	13.4			60A	78A
X	2.5	1.7	55 deg C	80%	45A	50A
Z @ 20 deg C	18.5	12.5	35 deg C	100%	62A	78A
Z @ 30 deg C	19.6	13.3	40 deg C	100%	58A	72A
Z @ 40 deg C	19.9	13.5	55 deg C	100%	43A	48A

## Conductor Systems

### Mobilis INNO Enclosed Conductor System

#### End Feed Boxes M25/M32



M25 Av /  
M32 AV

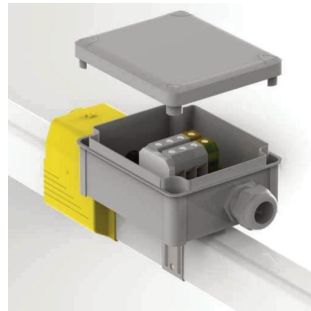
M25 Av /  
M32 AV



Thermoplastic  
Self-extinguishing  
IP23

Gland	Code	Cable dia.
M25 AV	MI 1200	13 - 18mm
M25 AR	MI 1201	13 - 18mm
M32 AV	MI 1230	15 - 25mm
M32 AR	MI 1231	15 - 25mm

#### In Line Feed Box M40 / MI 1332



Cable gland: M40

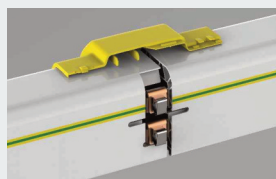
Cable dia.:  
22mm - 32mm

Code: MI 1332

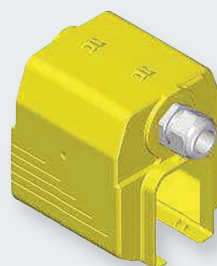
#### Covering Flange MI 2000



Thermoplastic  
Self-extinguishing IP23



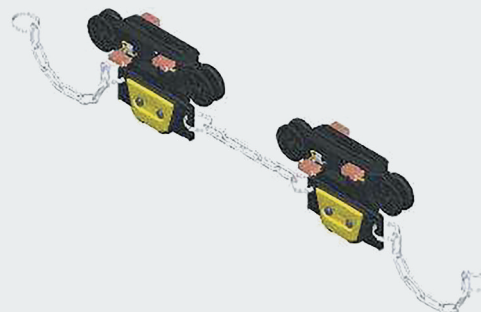
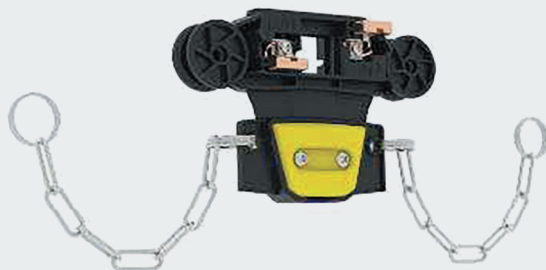
#### In Line Feed Box M25/M32



Thermoplastic  
Self-extinguishing IP23

Gland	Code	Cable dia.
M25	MI 1300	13 - 18mm
M32	MI 1330	15 - 25mm

#### Collector Trolleys



	Single Collector	Double Collector
Rated current	30 amp	60 amp
Weight (kg)	0.26	0.65
Terminal block	6mm <sup>2</sup>	6mm <sup>2</sup>
Compatible cable	2.5mm <sup>2</sup> - 6mm <sup>2</sup>	2.5mm <sup>2</sup> - 6mm <sup>2</sup>
c/w 1m cable 4mm <sup>2</sup> H07RN-F	MI 2034-1M	MI 4034-1M
c/w 1m cable 6mm <sup>2</sup> H07RN-F	MI 2036-1M	MI 4036-1M
Without cable	MI 2030	MI 4030

#### Cleaning Trolleys MI 4514

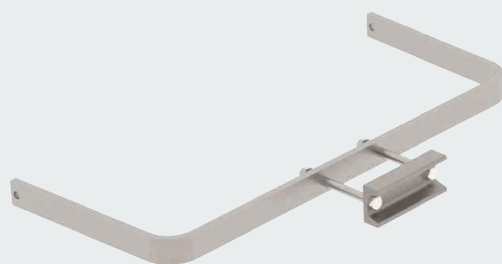


Designed to clean the conductors and restore contact quality - the cleaning trolley is particularly useful for systems installed in dusty or dirty environments.

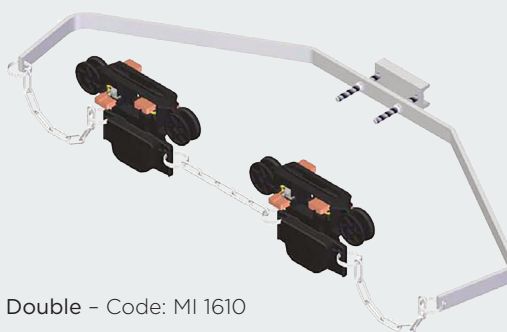
# Conductor Systems

## Mobilis INNO Enclosed Conductor System

### Carrier



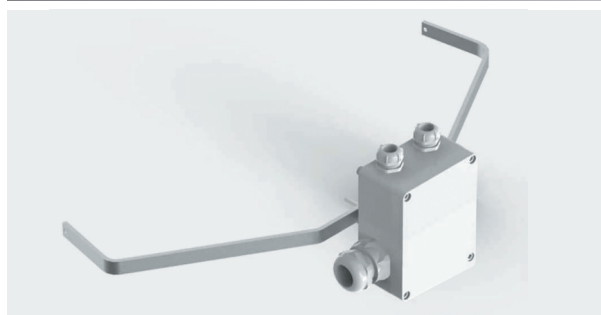
Single – Code: MI 1625



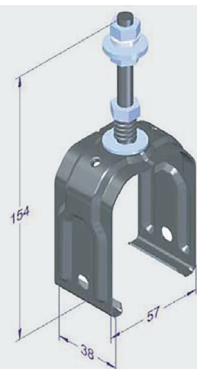
Double – Code: MI 1610

Carrier	Single	Double
Reference	MI 1660	MI 1640
Compatible with collector	30A	60A
Max duty factor @ 35 deg C	100%	61%
Max duty factor @ 55 deg C	64%	27%
Output cable gland	M40	M40
Max diameter of output cable	21–32mm	21–32mm
Input cable gland (to collector)	1 x M25	2 x M25
Max diameter of input cable	13–19mm	13–19mm
Cable connection	$\leq 4 \times 16\text{mm}^2$	$\leq 4 \times 25\text{mm}^2$

### Carrier with box



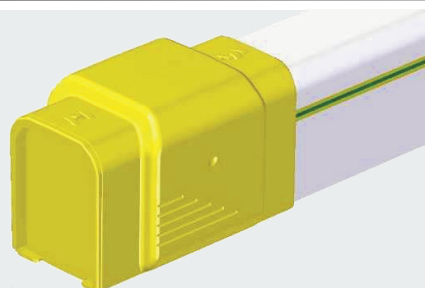
### Sliding Hanger MI 1510



Galvanised steel

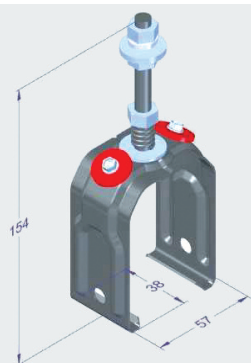
Screw M8 x 60 pre-mounted  
(33mm adjustment range)

### End Cap MI 2400



Thermoplastic  
Self extinguishing – IP23

### Fixed Hanger MI 1500



Galvanised steel

Screw M8 x 60 pre-mounted  
(33mm adjustment range)

c/w 2 no. anchoring screws-  
2 fixed hangers should be  
used, positioned centrally  
along the conductor line

### Support bracket ME 1799



Designed for fast easy installation, the ME 1799 support bracket is suitable for clipping to a wide range of beam flange thicknesses from 7mm up to 40mm.