

## Potential connection

is a system for potential connections, particularly suitable in situations where you can not/may not make a direct connection in e.g. a pipe under pressure. The system consists of a pair of pliers and a roll of strapping (10 m). The pliers are used to punch mounting holes and at the same time the right length of the strap - thus no need to think about having different strap lengths for different pipe sizes.

Here are screws for connecting both single and double potential conductors internally in our system and to other equipment.

Equipotential bonding rail also complements the system.

Selection of surface finish

Equipotential bonding

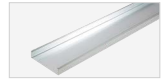
Cable ladders



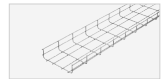
Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



## Potential connection



Cable clamps



Ceiling brackets  
concrete screws



Service poles/posts



Floor boxes



Wall trunkings

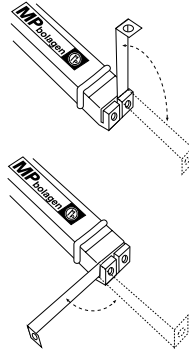
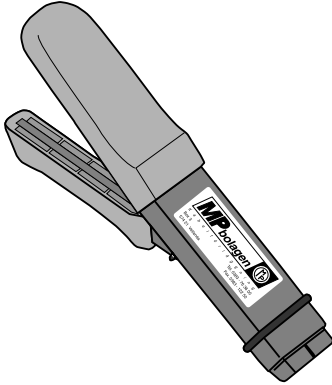


E-number, weight, package

# Potential connection

## Punch/bending pliers

Pliers designed for both punching holes at the same time as cutting the strap. Depending on whether you intend to use reinforcement angles or not, you bend the angles in two different lengths, see fig.

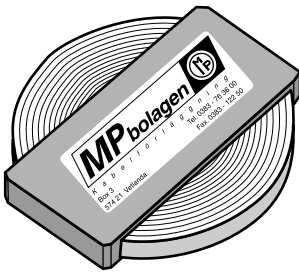


**Zinc 10 µm E-no**  
MP-830 E 16 058 90

## Strap 10x0.5 mm

Steel strap 10x0.5 mm with rounded edges. Tensile strength 600N/mm<sup>2</sup> ± 100 N. The strap (10 m) is rolled up on a plastic cassette where the end is hidden in the cassette so as not to catch on surrounding objects.

Note! When connecting around untreated pipes use aluzinc strap.



AZ 150	E-no	Stainless	E-no
MP-831 A	15 220 39	MP-831 R	15 220 40

The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

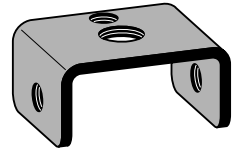
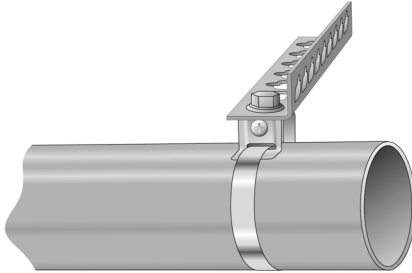
A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.

# Potential connection

## Strap

The fastening clamp is equipped with M5 threads on the sides as well as M8 and M5 on the top for fastening tubes. Bolt not included.

10 per package.

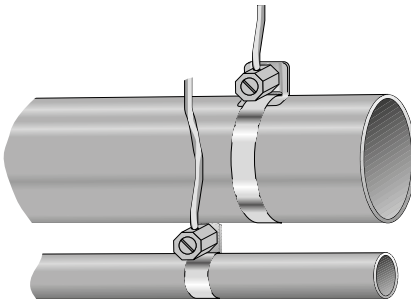


AZ 150	E-no	Stainless	E-no
MP-832 A	15 220 44	MP-832 R	15 220 42

## Reinforcement angles

The angle brackets provide a powerful clamp around the object you wish to connect. Should be used whenever possible.

100 per package.



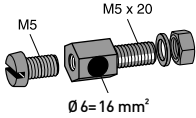
AZ 150	E-no	Stainless	E-no
MP-833 A	15 220 45	MP-833 R	15 220 43

The letter in the MP No. denotes the surface finish according to: (also see page 4)

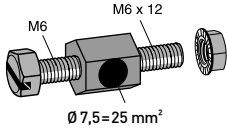
V = White  
B = Beige  
SV = Black  
NCS 2502-Y  
RAL 9005

# Potential connection

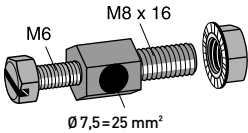
## Potential connection screw



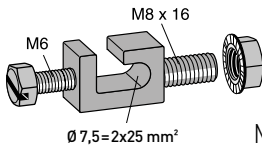
MP-838



MP-842



MP-839



MP-939

The small screws (M5x20) are primarily intended to be used with our potential connection strap when wrapped around metal objects in all forms. The screw has a dual function, as well as the tightening screw on the strap (M5x20 mm) also to connect the potential conductor - max. 16 mm<sup>2</sup> in the Ø6 mm hole.

10 per package.

M6x12 and M8x16 fit most holes in our products, making it easy to potential connect all our parts.

The hole for the potential conductor (Ø7.5 mm) permits connections of up to 25 mm<sup>2</sup> conductors.

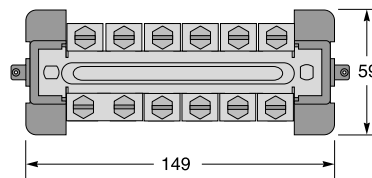
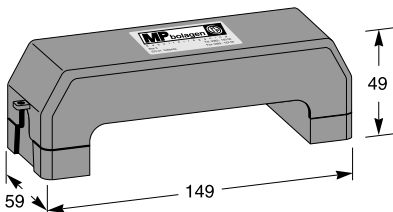
10 per package.

Dim	Zinc 10 µm	E-no	Stainless	E-no
M5x20			MP-838 R	15 144 94
M8x16	MP-839 E	11 157 88	MP-839 R	11 157 89
M6x12	MP-842 E	11 157 87		
M8x16	MP-939 E	11 157 83	MP-939 R	11 157 85

## Equipotential bonding rail

Equipotential bonding rail with sealable plastic hood. Nine loose add-on terminal blocks for connecting round conductors with an area of 2.5 mm<sup>2</sup> - 95 mm<sup>2</sup> on the cam-shaped contact rail.

In addition, a steel strap of 4 x 30 mm is connected with double terminal blocks. Height=49 mm.



Zinc 10 µm	E-no
MP-841 E	06 819 02

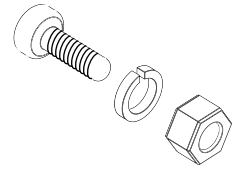
# Potential connection

## Screw with spring washer and nut

Screw with spring washer and nut in acid resistant grade A4.

Note! Spring washer must always be used on potential connections.

50 per package.

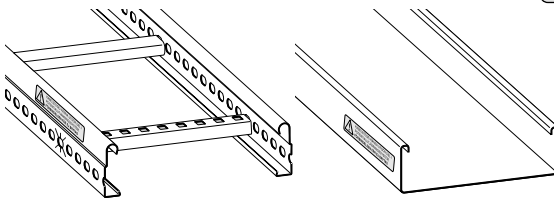


Dim	Stainless	E-no
M5 x 12	MP-834 R	15 144 90
M5 x 25	MP-835 R	15 144 91

## Potential marking

A water-resistant label is attached to the ladder/tray. The label is yellow and has the dimensions 100x18 mm.

100 labels/roll (package).



Label	E-no
MP-837 F	11 167 15

## Basic set equipotential bonding

Contents::

- 1 pcs. Punch/bending pliers.... 16 058 90
- 1 pcs. Stainless steel strap ..... 15 220 40
- 1 pcs. Aluzinc strap..... 15 220 39
- 1 set Clamp – stainless..... 15 220 42
- 1 set Clamp – aluzinc..... 15 220 44
- 50 pcs. Reinforcement angle.... (15 220 43)
- 50 pcs. Reinforcement angle.... (15 220 45)
- 1 set Screw M5x 12..... 15 144 90
- 1 set Screw M5x 25..... 15 144 91

Supplied in black tool bag.



Case	E-no
MP-840 F	06 819 00

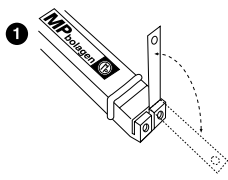
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
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 NCS 2502-Y  
 RAL 9005

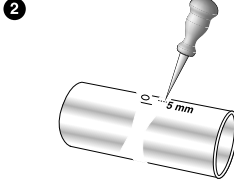
# Potential connection

## Installation instructions without angle bracket

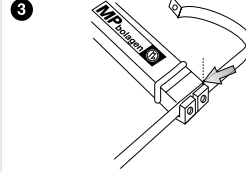
Cut the strap in a raw length. Bend one angle as shown in the fig.



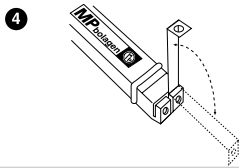
Measure the exact length around the object, make a scribe mark 5 mm shorter than the circumference.



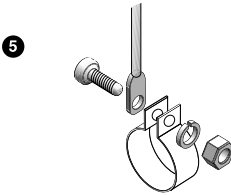
Place the strap in the pliers with the scribe mark flush with the cutting head. Cut off the strap.



Bend the other angle as shown in the fig. Shape the strap around the object. There must be a gap of 1-2 mm between the angles of a sound joint.

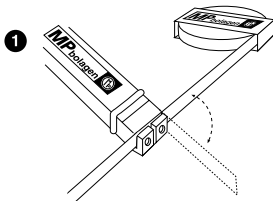


Screw together the joint with the contact connection on the outside of one bend.

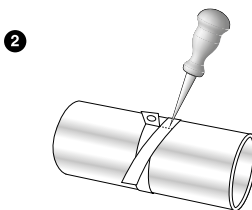


## Installation instructions with angle bracket

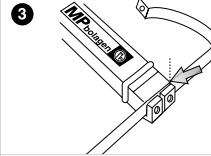
Cut the strap in a raw length. Bend one angle as shown in the fig.



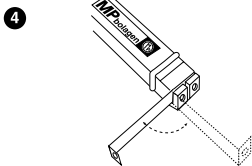
Measure the exact length around the object, make a scribe mark at the bent angle.



Place the strap in the pliers with the scribe mark flush with the cutting head. Cut off the strap. Hold the pliers in the depressed position.



Bend the other angle as shown in the fig. Shape the strap around the object. There must be a gap of 1-2 mm between the angles of a sound joint.



Screw together the joint with the contact connection on the outside of one bend.

