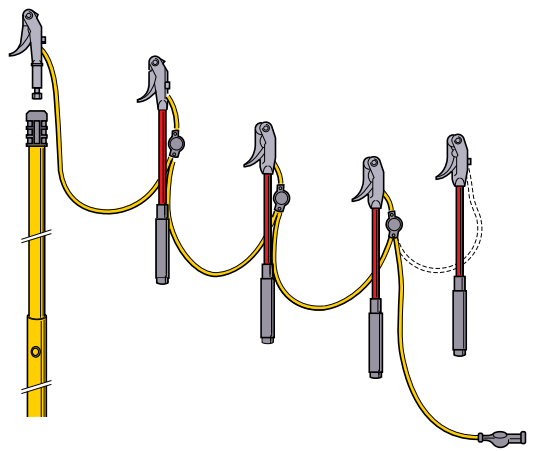


## Short-circuiting systems for bare L.V. overhead lines

For conductors: 3 - 15 mm Ø.  
 Easily attached by snapping on with a firm downward pull.  
 Released by lateral swinging, no need to push upwards.  
 First grip installed by insulating stick.  
 First clamp/stick connection has automatic ratchet.  
 Waterproof bag.  
 To be completed with earthing equipment. See page 28.

IEC 61230

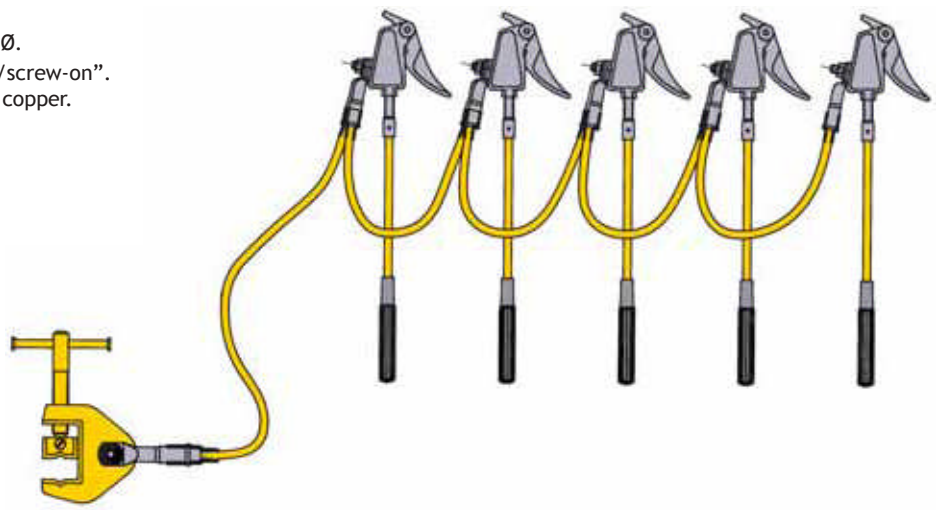


Packaging: waterproof bag 250 x 85 x 1160 mm.

Reference	Rating (kA/1s)	Short-circuit cables (mm <sup>2</sup> )	Weight (kg)	Number of clamps	Insulated telescopic stick
<b>MT-404</b>	3	16	3.4	3 MT-411/1 MT-411-C	CE-2-21-C/length: 2 m
<b>MT-405</b>	3	16	3.8	4 MT-411/1 MT-411-C	CE-2-21-C/length: 2 m
<b>MT-406</b>	3	16	4.2	5 MT-411/1 MT-411-C	CE-2-21-C/length: 2 m
<b>MT-407</b>	3	16	4.6	6 MT-411/1 MT-411-C	CE-2-21-C/length: 2 m

## Short-circuiting and earthing systems

Lowlock system:  
 For conductors 3 to 21 mm Ø.  
 With clamps type "snap-on/screw-on".  
 Connecting cables: 35 mm<sup>2</sup> copper.



Reference	Rating (kA/1s)	Weight (kg)	Composition
<b>MT-615/1-7,5</b>	7.5	3	5 MT-616/1-03 contact clamps on handles (l = 0.35 m each) 4 braids of M-24-35 copper cable (1.00 m) 1 M-87-153 carrying bag 250 x 85 x 750 mm
<b>MT-615/2-7,5</b>	7.5	6.5	5 MT-616/1-03 contact clamps on handles 4 braids of M-24-35 copper cable (1.00 m) 1 braid of M-24-35 copper cable (7.00 m) 1 MT-840/1 earth clamp

Low voltage



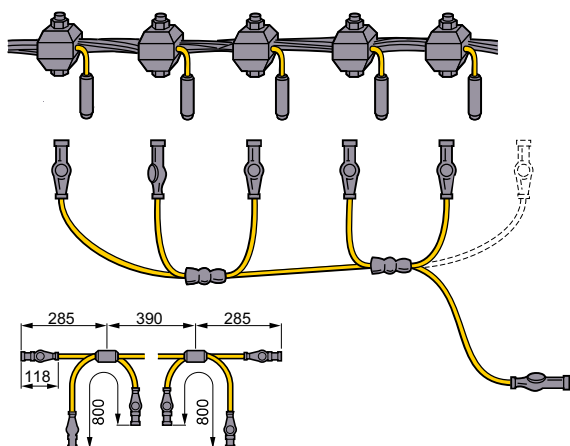
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## Short-circuiting systems for insulated L.V. overhead lines

Connected to female sockets permanently installed on power lines. Equipment includes either 5 or 6 copper-aluminium alloy stubs with bayonet locking and insulating cap. To be completed with earthing equipment. See below.

IEC 61230

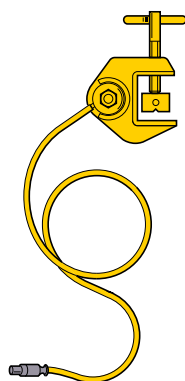


Packaging: polypropylene case - 234 x 215 x 75 mm.

Reference	Rating (kA/1s)	Short-circuit cables (mm <sup>2</sup> )	Weight (kg)	Composition
<b>MT-205</b>	4	16	1.10	5 stubs
<b>MT-206</b>	4	16	1.50	6 stubs
<b>MT-207</b>	4	16	1.9	7 stubs

## Earthing equipment

Earthing equipment with bayonet splicing. Earth rod to be ordered separately. See below.



Packaging: polypropylene case - 310 x 280 x 105 mm.

Reference	Weight (kg)	Cable (m x mm <sup>2</sup> )	Earth clamp
<b>MT-245</b>	3.0	10 x 16	MT-840/1
<b>MT-249</b>	3.8	15 x 16	MT-840/1

## Earth rod

For use with earthing equipment  
Hexagonal 18 mm per side.  
Galvanized steel.



**MT-650** Length: 1 m - Weight: 2.2 kg

## Short-circuiting system for consumer units

The link assemblies, included in this equipment, consist of extra flexible 16 mm<sup>2</sup> multistrand copper cable with an IEC 1230 silicone envelope, recommended for indoor equipment.

The elements contained in the case can be used for establishing the equipment suited to the unit to be processed. The cartridge equipment is intended for HBC 22 x 58 mm fuse cartridge connection boxes and knife cartridges size 00. The knife equipment is intended for connection boxes or knife switch networks.

The mini-clip equipment is designed for the short-circuiting of take-off boxes more particularly using intermediate parts (sockets with 10 mm Ø terminals and M8 hexagonal end). The standard equipment for a three phase installation includes: the sets of cartridges, knives or mini-clips for adaptation to any type of unit, the interconnecting assemblies consisting of 4 extra flexible 16 mm<sup>2</sup> copper cables connected at the center by a connector, 1 installation and crimping kit. Rating: 4 kA/1s Weight: 4.3 kg.

Reference	Composition
<b>MC-290/2</b>	8 cartridges 8 cartridges type "00" 8 clamps 8 M8 connections 2 (280 x 320 mm) cable connections 2 (370 x 440 mm) cable connections 1 M8 key wrench 1 right angle hexagonal key wrench 4 mm 1 13/17 and 14 mm open end spanner 1 handle MC-161



## Short-circuiting system for L.V equipment ISOSTOP™ system

Rating: 6 kA/1S  
 Standard equipment composition: 1 or 2 sets of 3 knives, cables connections: H07 RN-F 25 mm<sup>2</sup>, 1 earth clamp MT-841 1 handle MC-161.

Reference	Composition	Weight (kg)
<b>MC-165/40</b>	3 MC-160 earth cable 0.60 m	4.00
<b>MC-175/40</b>	3 MC-115 earth cable 0.60 m	3.75
<b>MC-166/40</b>	3 MC-115 3 MC-160 earth cable 0.60 m	5.60
<b>MC-166/60</b>	3 MC-115 3 MC-160 earth cable 6 m	4.20



## Jumper cable with clamps on insulated handle

2 clamps on insulated handle - MT-315  
 Capacity (mm): Ø 4 - 27 - 40  
 Cable connection: 35 mm<sup>2</sup>  
 Rating: 6 kA/1s  
 Continuous rating: 75 A  
 Clamp material: copper aluminium alloy  
 1 insulated cable  
 Length: 1 m, Section: 25 mm<sup>2</sup>.

<b>MT-315/2</b>	Dimensions: 40 x 60 x 910 mm - Weight: 0.530 kg
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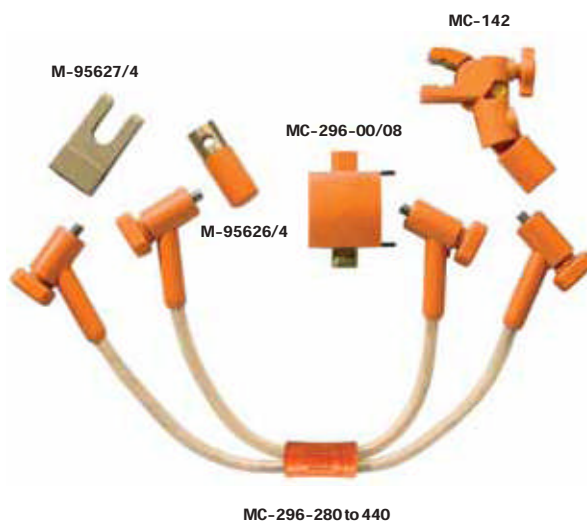
## Short-circuiting equipment

Connecting set formed by extra flexible multi-strand copper cables 16 mm<sup>2</sup> with silicon sheath according IEC-61230. Wide use temperature range (-40°C, +70°C). No toxic smokes emission in case of short circuit.

IEC 61230

Reference	Designation
<b>MC-296-440</b>	Connection set 440 + 370 mm*
<b>MC-296-320</b>	Connection set 320 + 280 mm*

\* Other models and length on request.

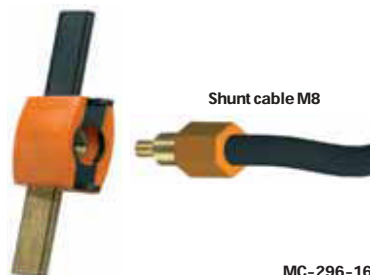


Set of: cartridge, connecting blade and jumper clamp.

Reference	Designation
<b>M-95627/4*</b>	Connecting blade
<b>M-95626/4*</b>	Round cartridge HPC 22 x 58
<b>MC-296-00/08*</b>	Cartridge size 00
<b>MC-142</b>	Jumper clamp

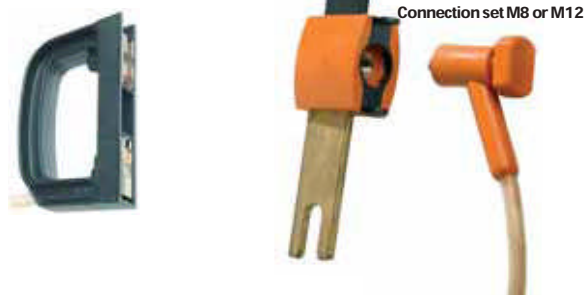
\* Set of 4.

MC-296-115/12 or MC-296-115/08



MC-296-160/12

MC-161



<b>MC-161</b>	Manœuvring handle
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Case (340 x 250 x 80 mm) for specific set. Réf.: M-91209.

## Connecting blades M8 or M12

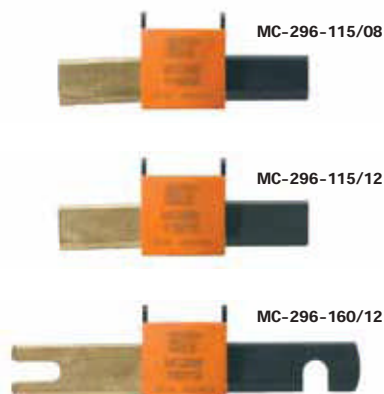
Reference	Designation
<b>MC-296-115/08*</b>	Between axes 115 mm M8
<b>MC-296-115/12*</b>	Between axes 115 mm M12
<b>MC-296-160/12*</b>	Between axes 160 mm M12

\* Set of 4.

To be used with jumper cable (M8 or M12) connection cable (on request).

Additional equipment:

- Jumper cable (see page N° 36)
- Threated adapter (see page N° 37)



## Mini jumper clamps fully insulated for switchboard use

These clamps are specially designed for use on energized parts in LV installations (switchboards, etc.) to make temporary connections when limited space is available. Models with jaws designed to axially grip conductors can be used on threaded bolts or shanks and nuts. The MC-142 model, whose size has been reduced to the strict minimum, is designed to be tightened with a nut wrench. All other models in this series tighten with T-handle screw. All clamps receive cable terminals with ISO 8 mm pitch threading as in the MC-153 series (described below). Current rating: 200 A.



Reference	Clamp capacity to main conductor	Orientation with respect	Size (mm)	Weight (kg)
MC-141	Six-sided 17-19 mm		71 x 150 x 24	0.26
MC-142	Round 6-10 flat 0-5 mm	Axial (at cable end) + transversal	58 x 38 x 33	0.130
MC-143	Flat bar, thickness 2-25 mm		67 x 145 x 26	0.230
MC-144	Round 8-12 square 9-10 mm	Axial (at cable end)	150 x 75 x 23	0.280
MC-145	16-75 mm <sup>2</sup>	Transversal	110 x 70 x 23	0.220
MC-146	38-240 mm <sup>2</sup>	Transversal	110 x 70 x 23	0.230
MC-147	Threaded rod M8		66 x 98 x 25	0.18
MC-147/1	Threaded rod M10		66 x 98 x 25	0.195
MC-148	Clamp with tapped revolving rod end M8, 200 A shunt. To be used with an insulated six-sided male hex key 5 mm.		66 x 80 x 25	0.175
MC-148/1	Clamp with tapped revolving rod end M8 for 10 to 50 mm cable		66 x 80 x 25	0.175
MC-149	Bar 20-30 mm width		56 x 165 x 58	0.486

## Jumper cables with threaded ferrules

To be used in conjunction with any of the clamps described above to make jumper equipment suit most any need both quickly and easily. Cable is IEC-60245 type, either 35 mm<sup>2</sup> current rating: 200 A or 50 mm<sup>2</sup> current rating: 250 A, depending on the models. Delivered with screwing ISO M8.



Section: 50 mm<sup>2</sup>

Section: 35 mm<sup>2</sup>

MC-153/05	Length: 0.50 m - Weight: 0.270 kg
MC-153/10	Length: 1.00 m - Weight: 0.570 kg
MC-153/30	Length: 3.00 m - Weight: 1.720 kg
MC-153/60	Length: 6.00 m - Weight: 3.460 kg

MC-155/05	Length: 0.5 m - Weight: 0.380 kg
MC-155/10	Length: 1.00 m - Weight: 0.760 kg
MC-155/20	Length: 2.00 m - Weight: 1.520 kg
MC-155/30	Length: 3.00 m - Weight: 2.280 kg
MC-155/60	Length: 6.00 m - Weight: 4.560 kg
MC-155/80	Length: 8.00 m - Weight: 6.080 kg