

## Overhead lines systems

Below 1000V

Overhead lines systems

Consumer units system

Jumper cables

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

For conductors: 3 - 15 mm Ø  
Easily attached by  
Released by lateral  
First grip installed l  
First clamp/stick c  
Waterproof bag.  
To be completed w



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

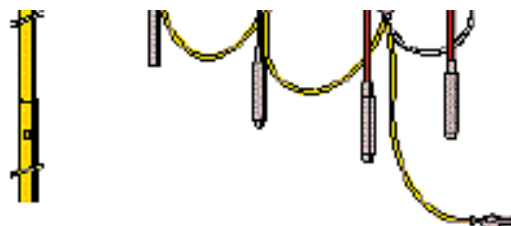
11KV 33KV CABLE JOINTS & CABLE TERMINATIONS  
FURSE EARTHING

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Packaging: waterproof bag 250 x 85 x 1 160 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

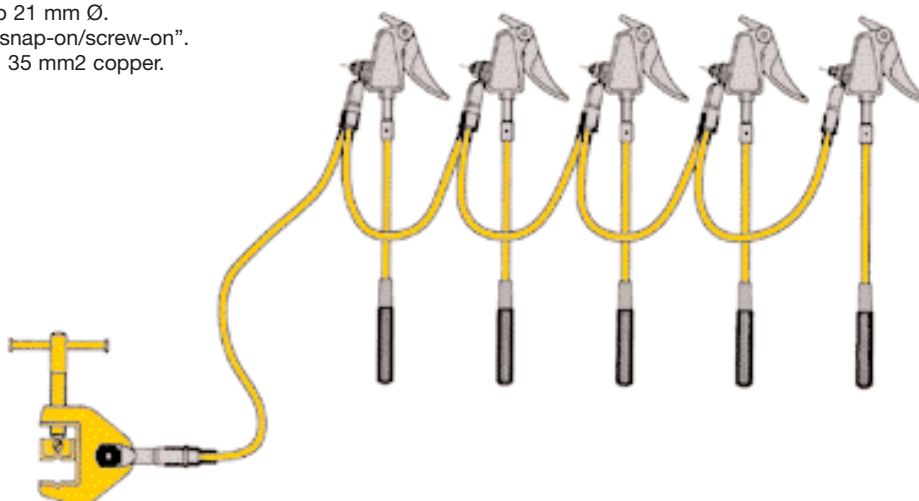
## Short-circuiting and earthing systems

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

For other models, please consult us.

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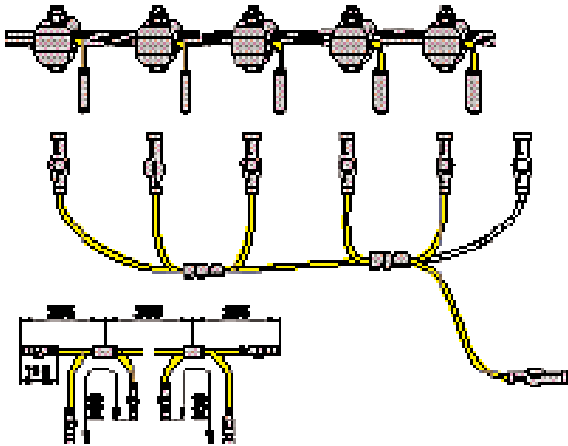
Consumer units system

Jumper cables

## 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   
CE



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 - 234 x 215 x 75 mm.

Reference	Weight (kg)	Cable (m x mm <sup>2</sup> )	Earth clamp
<b>MT-244</b>	2.5	10 x 10	MT-841
<b>MT-245</b>	3.0	10 x 16	MT-840/1
<b>MT-248</b>	3.0	15 x 10	MT-841
<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.



<b>MT-650</b>	Length: 1 m - Weight: 2.2 kg
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# Short-circuiting and earthing systems

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## 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	7.50



## 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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LOW VOLTAGE

CATU™

## 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-296-00/08/4*</b>	Cartridge size 00
<b>MC-296-P/4*</b>	Jumper clamp

Case (340 x 250 x 80 mm) for specific set. Réf.: M-91209.

\* Set of 4.

**MC-161** Manœuvring handle

Case (340 x 250 x 80 mm) for specific set. Réf.: M-91209.

## Connecting blades M8 or M12

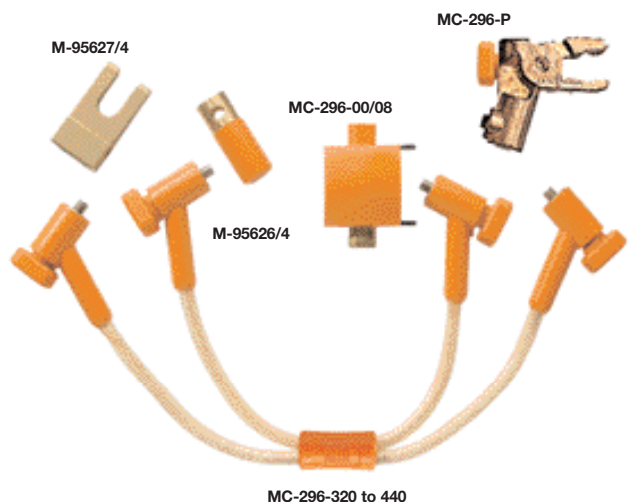
Reference	Designation
<b>MC-296-115/08/4*</b>	Between axes 115 mm M8
<b>MC-296-115/12/4*</b>	Between axes 115 mm M12
<b>MC-296-160/12/4*</b>	Between axes 160 mm M12

\* Set of 4.

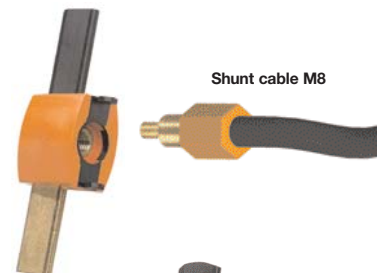
To be used with jumper cable (M8 or M12) connection cable (on request).

Additional equipment:

- Jumper cable (see page 41)
- Threaded adapter (see page 42)



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

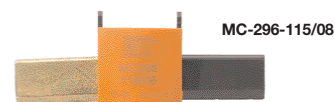
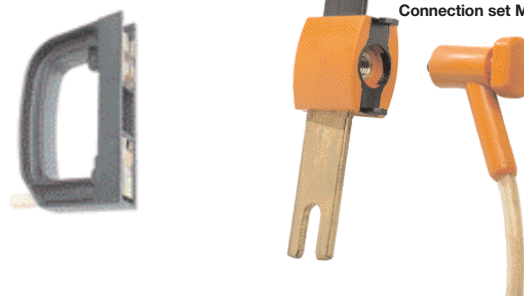


Shunt cable M8

MC-161

MC-296-160/12

Connection set M8 or M12



MC-296-115/08



MC-296-115/12



MC-296-160/12

# Short-circuiting and earthing systems

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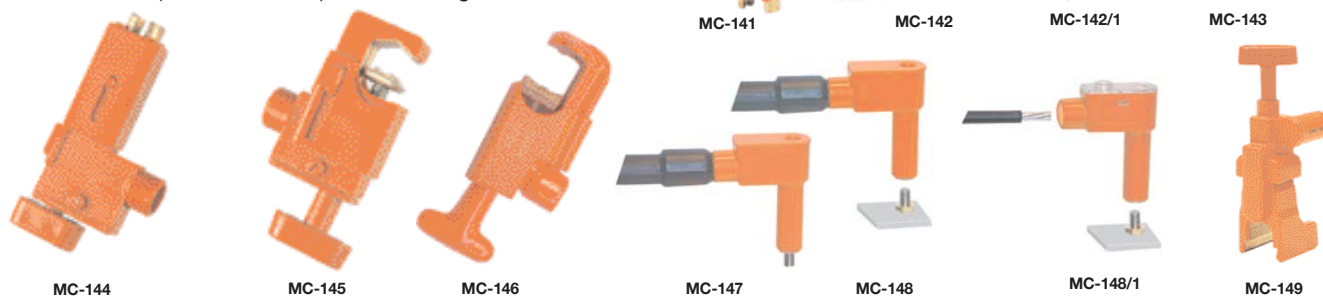
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## Mini jumper clamps fully insulated for switchboard use

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)
<b>MC-141</b>	Six-sided 17-19 mm		71 x 150 x 24	0.26
<b>MC-142</b>	Round 6-10 flat 0-5 mm	Axial (at cable end) + transversal	58 x 38 x 33	0.130
<b>MC-142/1</b>	With handle. Round 6-10 flat 0-5 mm	Axial (at cable end) + transversal	58 x 38 x 33	0.140
<b>MC-143</b>	Flat bar, thickness 2-25 mm		67 x 145 x 26	0.230
<b>MC-144</b>	Round 8-12 square 9-10 mm	Axial (at cable end)	150 x 75 x 23	0.280
<b>MC-145</b>	16-75 mm <sup>2</sup>	Transversal	110 x 70 x 23	0.220
<b>MC-146</b>	38-240 mm <sup>2</sup>	Transversal	110 x 70 x 23	0.230
<b>MC-147</b>	Threaded rod M8		66 x 98 x 25	0.18
<b>MC-147/1</b>	Threaded rod M10		66 x 98 x 25	0.195
<b>MC-148</b>	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
<b>MC-148/1</b>	Clamp with tapped revolving rod end M8 for 10 to 50 mm cable		66 x 80 x 25	0.175
<b>MC-149</b>	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>

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

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



# Short-circuiting and earthing systems

## Jumper cables

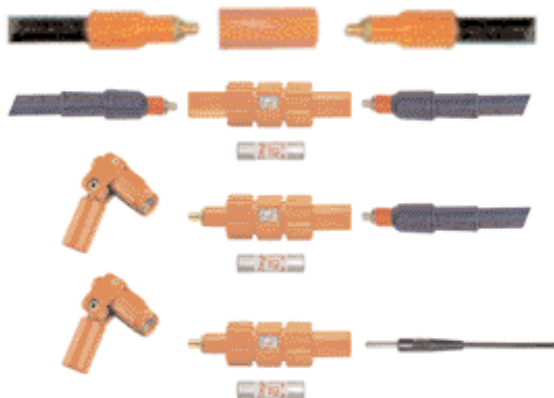
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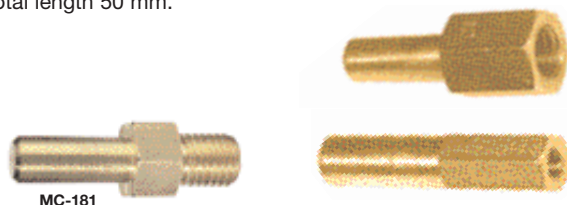
### Jumper cable with insulated jumper clamps



Reference		Size (mm)	Weight (g)
<b>MC-121</b>	Junction for shunt M8	Hexa. 22 L60	0.055
<b>MC-122</b>	Fuse holder for shunt	Ø 35 L125	0.130
<b>MC-123</b>	Fuse holder for shunt	Ø 35 L125	0.140
<b>MC-124</b>	Fuse holder for clamps	Ø 35 L125	0.140

### Threaded adapter

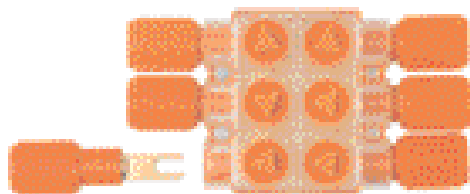
Cylindrical body diameter 10 mm to fits on panel network thread.  
Total length 50 mm.



<b>MC-181</b>	4 adapters for short-circuiting - M12 Weight: 0.05 kg
<b>MC-182</b>	4 adapters M8 Width: 50 x 10 mm - Weight: 0.027 kg
<b>MC-183</b>	4 adapters M12 Width: 50 x 17 mm - Weight: 0.048 kg

### Tap off box

The tap off box allows on each side to connect 3 by pass jumpers type MC-153/... is delivery equiped with six removable fittings type MC-156/1 and an insulating wrench. This item in conjunction with by pass jumpers allows to shunt a tap off box by means of a second tap off box. Current rating 200 A.



<b>MC-156</b>	40 x 80 x 158 mm
<b>MC-156/1</b>	Spare part
<b>MO-237-D</b>	Triangular spanner with T handle

### Jumper cable with insulated jumper clamps

2 clamps MC-120  
Spring tightening. Connector for 8 mm cable Ø.  
Tightening capacity: 12 mm (diameter - flat).  
Rated insulation: 1 500 V. Rating 5 (kA/1s).  
Continuous rating 75 A. 1 insulated cable  
25 mm<sup>2</sup> section.



Reference	Cable length (m)	Weight (kg)
<b>MC-120/15</b>	1.50	0.850
<b>MC-120/50</b>	5.00	1.950
<b>MC-120/100</b>	10.00	4.000

### Shunt Telescopic probe

This probe is completely insulated through the end, and includes a retractable shroud containing a 10 mm diameter copper braided stem that connects to device terminals and network connector boards. The female screw socket allows attachment to shunt cables. Nominal current: up to 250 A.



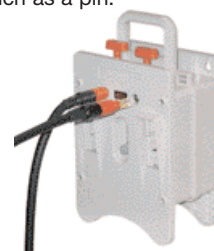
<b>MC-126</b>	Connector with insulated probe 1.5 to 16 mm In 60 A - 65 x 185 x 29 - 0.130
<b>MC-126/1</b>	Connector with insulated probe 10 to 70 mm In 100 A - 65 x 185 x 29 - 0.166



<b>MC-150</b>	Ø 33 mm L 180 mm - Weight: 0.160 kg
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### Jumper connecting box with fuse

The shunt for collective channeling is a box used to make sure, before proceeding to the replacement of/removing a molten fuse situated on a channeling, that the defect which brought about the molten is eliminated. This box is used with a fuse when the (nominal) assigned intensity of the channeling is < 100 A and with 2 fuses when this intensity is included between 100 A and 200 A. It can also be used to open a circuit in load, for example to change a damaged accessory such as a pin.



<b>MC-116</b>	Shunt for collective channeling from 30 to 200 A
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