

Short-circuiting and earthing systems



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
www.cablejoints.co.uk
Thorne and Derrick UK
Tel 0044 191 490 1547 Fax 0044 191 477 5371
Tel 0044 117 977 4647 Fax 0044 117 9775582

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



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FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

ISO 9001
CE

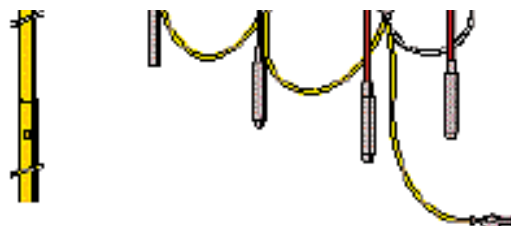
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Packaging: waterproof bag 250 x 85 x 1 160 mm.

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

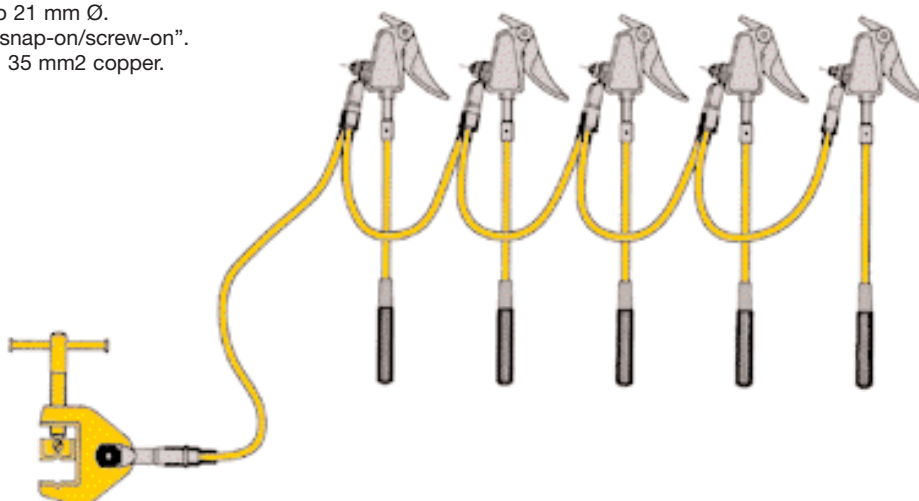
Short-circuiting and earthing systems

Lowlock system:

For conductors 3 to 21 mm Ø.

With clamps type "snap-on/screw-on".

Connecting cables: 35 mm² copper.



Reference	Rating (kA/1s)	Weight (kg)	Composition
MT-615/1-7,5	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
MT-615/2-7,5	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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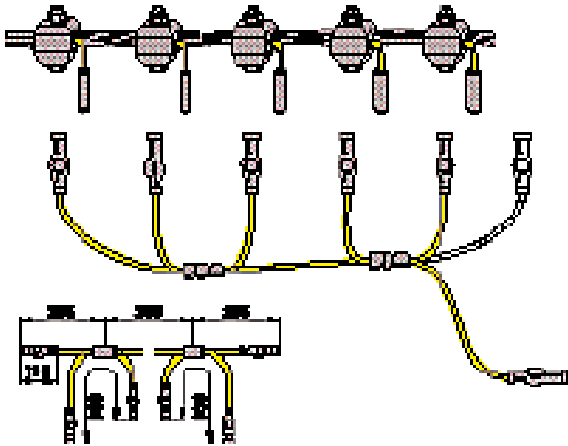
Consumer units system

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 ²)	Weight (kg)	Composition
MT-205	4	16	1.10	5 stubs
MT-206	4	16	1.50	6 stubs
MT-207	4	16	1.9	7 stubs

Earthing equipment

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



Reference	Weight (kg)	Cable (m x mm ²)	Earth clamp
MT-244	2.5	10 x 10	MT-841
MT-245	3.0	10 x 16	MT-840/1
MT-248	3.0	15 x 10	MT-841
MT-249	3.8	15 x 16	MT-840/1



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

Earth rod

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



MT-650	Length: 1 m - Weight: 2.2 kg
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Short-circuiting and earthing systems

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system

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Below 1000V

Overhead lines systems

Consumer units system

Jumper cables

Short-circuiting system for consumer units

The link assemblies, included in this equipment, consist of extra flexible 16 mm² 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 mm² copper cables connected at the center by a connector, 1 installation and crimping kit.

Rating: 4 kA/1s

Weight: 4.3 kg.



Reference	Composition
MC-290/2	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 mm², 1 earth clamp MT-841 1 handle MC-161.

Reference	Composition	Weight (kg)
MC-165/40	3 MC-160 earth cable 0.60 m	4.00
MC-175/40	3 MC-115 earth cable 0.60 m	3.75
MC-166/40	3 MC-115 3 MC-160 earth cable 0.60 m	5.60
MC-166/60	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 mm²

Rating: 6 kA/1s

Continuous rating: 75 A

Clamp material: copper aluminium alloy

1 insulated cable

Length: 1 m, Section: 25 mm².

MT-315/2	Dimensions: 40 x 60 x 910 mm - Weight: 0.530 kg
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LOW VOLTAGE

Short-circuiting equipment

Connecting set formed by extra flexible multi-strand copper cables 16 mm² 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
MC-296-440	Connection set 440 + 370 mm*
MC-296-320	Connection set 320 + 280 mm*

* Other models and length on request.

Set of: cartridge, connecting blade and jumper clamp.

Reference	Designation
M-95627/4*	Connecting blade
M-95626/4*	Round cartridge HPC 22 x 58
MC-296-00/08/4*	Cartridge size 00
MC-296-P/4*	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

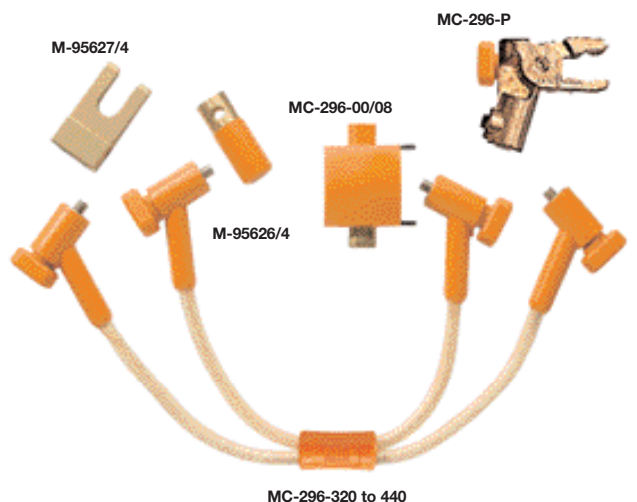
Reference	Designation
MC-296-115/08/4*	Between axes 115 mm M8
MC-296-115/12/4*	Between axes 115 mm M12
MC-296-160/12/4*	Between axes 160 mm M12

* Set of 4.

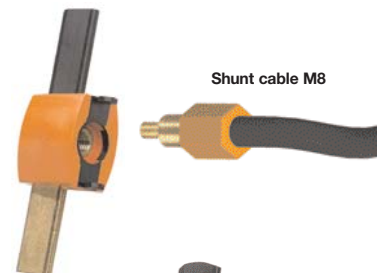
To be used with jumper cable (M8 or M12) connection cable (on request).

Additional equipment:

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



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

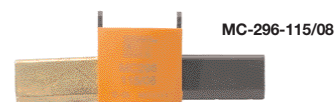
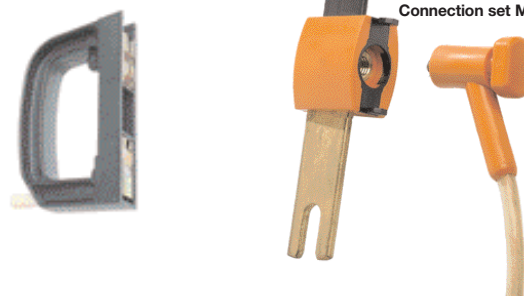


Shunt cable M8

MC-161

MC-296-160/12

Connection set M8 or M12



MC-296-115/08



MC-296-115/12



MC-296-160/12

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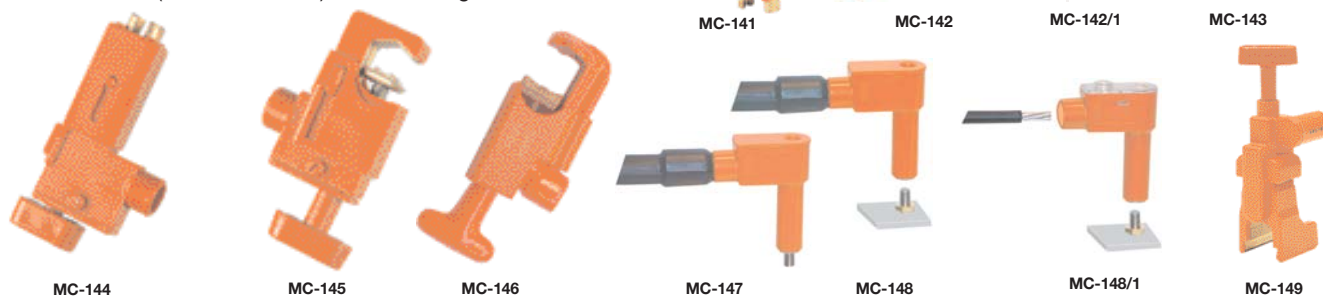
Overhead lines systems

Consumer units system

Jumper cables

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-142/1	With handle. Round 6-10 flat 0-5 mm	Axial (at cable end) + transversal	58 x 38 x 33	0.140
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 ²	Transversal	110 x 70 x 23	0.220
MC-146	38-240 mm ²	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 mm² current rating: 200 A or 50 mm² current rating: 250 A, depending on the models. Delivered with screwing ISO M8.



Section: 50 mm²

Section: 35 mm²

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

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Jumper cables

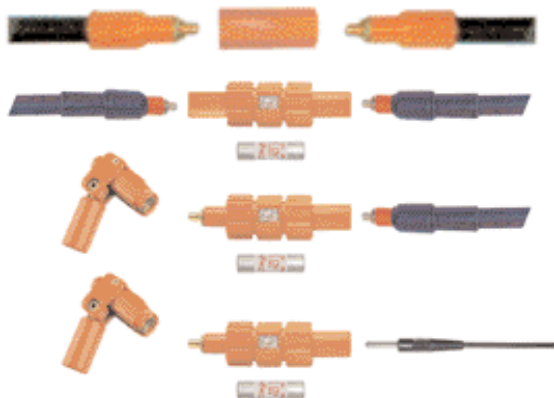
Below 1000V

Overhead lines systems

Consumer units system

Jumper cables

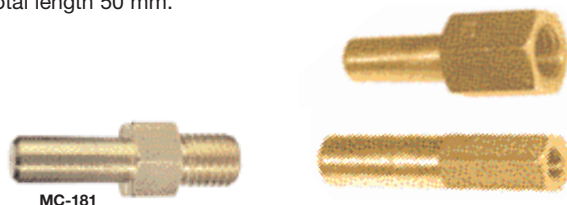
Jumper cable with insulated jumper clamps



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

Threaded adapter

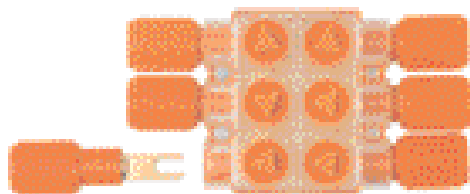
Cylindrical body diameter 10 mm to fits on panel network thread.
Total length 50 mm.



MC-181	4 adapters for short-circuiting - M12 Weight: 0.05 kg
MC-182	4 adapters M8 Width: 50 x 10 mm - Weight: 0.027 kg
MC-183	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.



MC-156	40 x 80 x 158 mm
MC-156/1	Spare part
MO-237-D	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 mm² section.



Reference	Cable length (m)	Weight (kg)
MC-120/15	1.50	0.850
MC-120/50	5.00	1.950
MC-120/100	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.



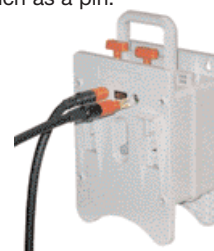
MC-126	Connector with insulated probe 1.5 to 16 mm In 60 A - 65 x 185 x 29 - 0.130
MC-126/1	Connector with insulated probe 10 to 70 mm In 100 A - 65 x 185 x 29 - 0.166



MC-150	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.



MC-116	Shunt for collective channeling from 30 to 200 A
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