



hubix
SAFETY IN POWER

ELECTRICAL INSULATION
EQUIPMENT FOR
FIREFIGHTERS



40
YEARS
HUBIX

hubix
SAFETY IN POWER



HYBRID TOOLS
BY HUBIX

SECRA

Dear Firefighters,

We present to you our catalog of electrical insulating equipment designed to support rescue and firefighting operations. This equipment has been used by power engineers in the daily operation of energy networks for over 40 years. Why do we offer the equipment designed for the power industry to fire department teams? The answer is simple: we want to share our knowledge and experience with you, believing that the presented equipment will contribute to the increase of the efficiency of your activities. As a result, your team of professional, ready-to-act firefighters will be better prepared for firefighting and rescue operations.

Properly equipped and trained firefighters can do what is impossible for others: they save lives. It is possible with our equipment.

On the following pages of the catalog, we present the technologies used in your work and the equipment necessary to make the impossible possible!

A dozen or so years ago, during a meeting at one of the Energy Training Centers, representatives of the Fire Department presented their needs in terms of cutting off the power supply for the duration of the rescue and firefighting operation both to us and the Trainers of Live Working techniques. It was then that both the work technique used by the power industry and the equipment presented on the following pages of the catalog were adapted.

Is this technique and electrical insulation equipment adopted by the ranks of firefighters? We will answer with an anecdote taken from real life.

During one of the power cut-off trainings for firefighters, at the end of the class, the instructors asked to cut power at the pace that is normally done. The instructors wanted to see the effects of their work and make a video for the next training. When about a minute later the fire truck entered the site, the power connection wires, perfectly cut off, were lying on the ground, the camera operator stated that he had not even had time to turn the camera on.

We wish you a pleasant reading.
Hubix Team

hubix
SAFETY IN POWER



CUTTING OFF THE POWER SUPPLY

The „cut-off“ technique involves physically disconnecting the building from the power grid. It uses electrical insulating equipment and protective equipment. All activities must be performed with insulating gloves by trained personnel.

Method 1.

Cutting off the power supply made of conductors of an overhead line. Firstly, the power connection conductors should be removed. To this end, with the help of an insulating emergency short-circuit set, the connection wires should be put together (short-circuit), causing the correct operation of protection and disconnecting the power supply. Then use the insulating wire cutting stick to cut the conductors one at a time. If possible, transfer the cut conductors onto the ground using an insulating stick with a hook. Secure the cut conductors.

Method 2.

Cutting off the power supply made of insulated cable of an overhead line. In the connection point, cut the conductor one at a time with an insulating wire cutting stick. Then, using the same stick, cut of the tension clamp lug on both sides, which will cause the cable to fall to the ground. Secure the cut cable.

Method 3.

Cutting off the power supply, made of underground cable protected with fuses. With the help of insulating fuse cover and insulating clamps, isolate the adjacent fuses. Using the BM holder with a protective sleeve remove the first fuse. Proceed in the same way with the next fuses.

Method 4.

Cutting off the power supply, made of underground cable protected with fuses. If the fuses' removal handles are damaged, cut the cable conductors, one at a time using insulated cutting scissors. After cutting, the conductors must be bent to avoid accidental re-powering.

CUTTING OFF THE POWER SUPPLY – TOOLS AND EQUIPMENT

B117.0110

H011SP Insulating wire cutter stick, for emergency services, 2,10 m, to 1 kV AC



B117.0120

H012SP Insulating hook stick, for emergency services, 2,10 m, to 1 kV AC



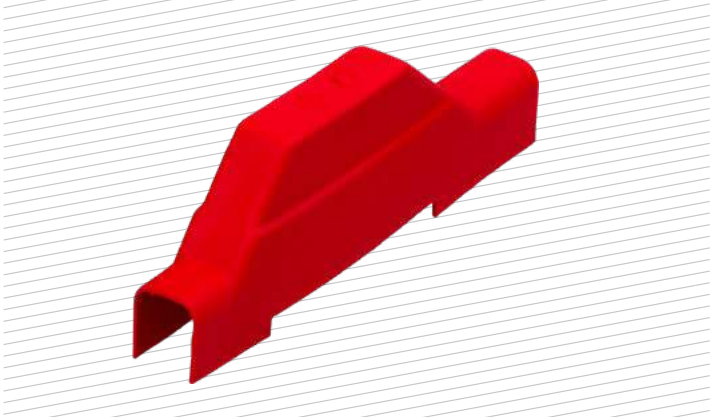
B111.0201

H066 Fuse holder with protective sleeve



B111.0306

H053 Insulating flexible fuse covers, 195 mm, to 1 kV / 1,5 kV DC



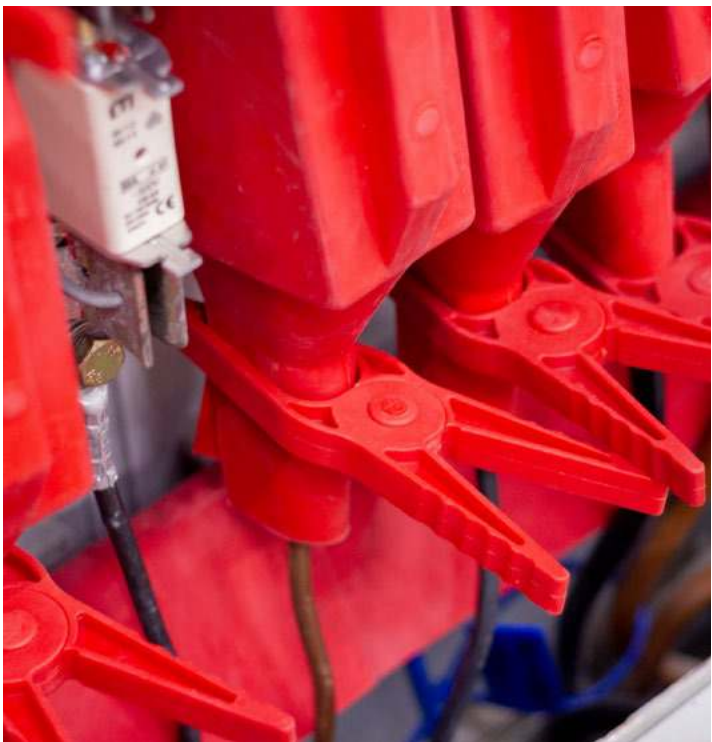
B111.0304

H053 Insulating flexible fuse covers, 345 mm, to 1 kV / 1,5 kV DC



B113.0402

H034 Insulating clamp, 50 mm, to 1 kV AC / 1,5 kV DC



K115.0101

H051 Emergency short-circuit set



J443.0101

H047 Glove case, 400 x 200 mm, red



C333.0101

H046 Cotton gloves



C221.N210

H044 Electrical insulating gloves class 2, orange, 36 cm, rolled cuff, S10, to 17 000 V AC / 25 500 V DC



C331.0311

H045 Protective gloves against mechanical risks S12



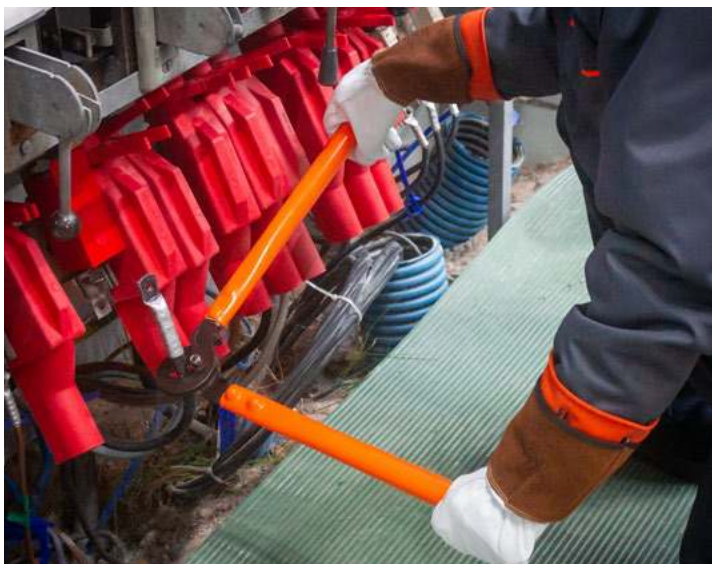
C111.N211

H044 Electrical insulating gloves class 0, orange, 36 cm, rolled cuff, S11, to 1000 V AC / 1500 V DC



A111.2003

HN10N Insulated cable wires cutter to cut the Al or Cu live wire A, up to diameter 35 mm, to 1 kV AC / 1,5 kV DC



CUTTING OFF THE POWER SUPPLY – TOOLS AND EQUIPMENT

K993.0101

Safety warning tape, white-red, 100 mb



A111.2417

HS-1 Insulated pliers 200 mm/C, to 1 kV AC / 1,5 kV DC



A111.2001

HN8N Insulated cable wires cutter to cut the Al or Cu live wire, up to diameter 35 mm, to 1 kV AC / 1,5 kV DC



K994.0101

PSD0012 Road flares emergency discs with magnet, 6 pieces





BROKEN TREES

Broken trees and branches remaining at high altitudes pose a serious threat to both those conducting the rescue and firefighting operation and to outsiders. Broken trees and branches near to power lines are a particular threat. A tool helpful in removing these threats is a remote-controlled battery powered chainsaw, mounted on a telescopic insulating stick up to 110 kV with a length of up to 9 meters. Two operators are required to operate the kit. One of them keeps the stick with saw close to the place of cutting and the other precisely sets it with the help of a stay rope. The saw is turned on and off using a convenient remote control.

The saw transport case has a built-in battery charger and can be powered from a car's 12 V socket. Thanks to the use of a saw with a telescopic stick, there is no need to use lifts or tracks with ladders.

BROKEN TREES – TOOLS AND EQUIPMENT

A335.0503

H014 Purring saw with limiters for insulating stick, to 30 kV



B224.0106

VTT Triangular telescopic stick, seven-segments, length 9710 mm



A224.0201

H014 Remote-controlled battery powered chainsaw



A224.0101

H014 Insulating firefighters hook pike



A224.0102

H014 Tree pruners 25 mm



D113.0101

JWND Unipolar voltage detector, 0,2-1 kV



D223.0101

JWND Unipolar voltage detector, 12-36 kV



K994.0101

PSD0012 Road flares emergency discs with magnet, 6 pieces



A224.0103

H014
Tool for
removing
icing,
300 mm



K332.A205

ANTYAMPER Insulating overboots, class 2, S5 (46-49)





PULLING OFF CONDUCTORS

One of the consequences of road collisions with electricity infrastructure may be an electric conductor or conductors lying on the vehicle or near to it.

The inability to determine whether a given conductors is live, does not allow the continuation of the rescue operation.

With the help of an insulated pole with a hook or a kit including a telescopic stick and an insulating hook pike, conductors can be easily and safely moved, allowing access to the injured person.

PULLING OFF CONDUCTORS – TOOLS AND EQUIPMENT

B117.0120

H012SP Insulating hook stick, for emergency services, 2,10 m, to 1 kV AC



B224.0106

VTT Triangular telescopic stick, seven-segments, length 9710 mm



A224.0101

H014 Insulating firefighters hook pike



B223.5205

H095 Insulating single-segment stick, 1,50 m, to 20 kV AC



J443.0101

H047 Glove case, 400 x 200 mm, red



C111.N211

H044 Electrical insulating gloves class 0, orange, 36 cm, rolled cuff, S11, to 1000 V AC/1500 V DC



C221.N210

H044 Electrical insulating gloves class 2, orange, 36 cm, rolled cuff, S10, to 17 000 V AC/25 500 V DC



C333.0101

H046 Cotton gloves



K334.0101

H049 Safety spectacles with sunglare filters + case



K993.0101

Safety warning tape, white-red, 100 mb



K994.0101

PSD0012 Road flares emergency discs with magnet, 6 pieces





PULLING OUT AN ELECTRIC -SHOCKED PERSON

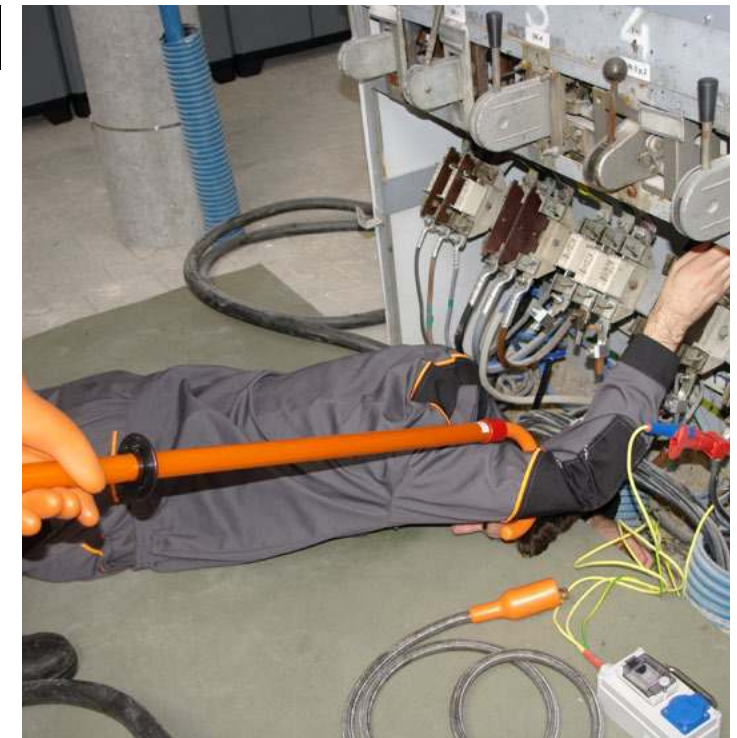
Rescuing an electro-shocked person who constantly touches the electrical equipment can also electroshock the rescuer.

Any time spent on effectively turning off or confirming that the device is turned off, may significantly reduce the electric-shocked person chances for survival. The only safe tool in this situation is an insulating stick with rescue hooks, that allows rescuers to pull away a shocked person to a safe distance.

PULLING OUT AN ELECTRIC-SHOCKED PERSON – TOOLS AND EQUIPMENT

K222.0101

H090 Insulating stick with rescue hooks, to 36 kV AC / 54 kV DC



C221.N210

H044 Electrical insulating gloves class 2, orange, 36 cm, rolled cuff, S10, to 17 000 V AC/25 500 V DC



C333.0101

H046 Cotton gloves



K332.A205

ANTYAMPER Insulating overboots, class 2, S5 (46-49)



B223.5205

H095 Insulating single-segment stick, 1,50 m, to 20 kV AC



D113.0101

JWND Unipolar voltage detector, 0,2-1 kV



D223.0101

JWND Unipolar voltage detector, 12-36 kV



J443.0101

H047 Glove case, 400 x 200 mm, red



K993.0101

Safety warning tape, white-red, 100 mb



K994.0101

PSD0012 Road flares emergency discs with magnet, 6 pieces





40
YEARS
HUBIX

hubix
SAFETY IN POWER



HYBRID TOOLS
BY HUBIX

SECRA



hubix
SAFETY IN POWER

Hubix sp. z o.o.

Huta Żabiowska | Główna 43 St. | 96-321 Żabia Wola | Poland

ph.: 46 857 84 40 | office@hubix.pl

www.hubix.pl | www.secra.pl

NIP: 5291803171 | REGON: 147123591

KRS: 0000500184 | BDO: 000059494