



# Tools and Accessories

## Tools and Accessories

Gas torch assembly	104
Tool sets	106
Cable preparation tools	107
Miscellaneous tools and accessories	108
Accessories for solderless earth connections	109
Sealing and filler tapes	109

## Gas torch assembly FH-1630

The FH-1630 torch assembly for rapid installation of heat-shrinkable materials offers maximum burning efficiency and the best available balance of surface preheat.

All system components are fully compatible.

### Torch box with contents FH-1630-S-MC10

Torch box with nozzles BN28, BN38 and PN17, torch handle HSZ, constant pressure regulator R1, automatic cut-off valve CV, 4 m long high pressure hose SW4.

Weight: 4,8 kg

Dimensions: 470 x 210 x 74 mm



### Torch handle FH-1630-S-HNZ, FH-1630-S-HSZ

Torch handle with holder and shut-off valve for use on all FH-1630-S nozzles. Handle HSZ has in addition a pilot/full flame lever. Nozzle connection thread: R 3/8", right  
Hose connection thread: R 3/8", left



### Nozzles for FH-1630-S

	Flame Diameter (mm)	Gas consumption (kg/h)	Stern length (mm)
FH-1630-S-BN 28	28	0,46	195
FH-1630-S-BN 38	38	0,90	195
FH-1630-S-BN 50	50	2,00	195
For Plumbing FH-1630-S-PN 17	17	0,24	195



### Torch box with contents FH-1630-PIE-MC10

Torch box with nozzles BN28, BN38, BN50 and PN18, torch handle FH-1630-PIE with piezo ignition, safety regulator LGS, 4 m long high pressure hose SW4.

Weight: 4,8 kg

Dimensions: 450 x 210 x 74 mm



### Torch handle with piezo ignition FH-1630-PIE

Torch handle with piezo ignition, gas supply only while handle is pressed. Nozzle connection: bayonet socking. Hose connection thread: R 3/8", left



### Nozzles for FH-1630-PIE

	Flame Diameter (mm)	Gas consumption (kg/h)	Stern length (mm)
FH-1630-PIE-BN 28	28	0,46	195
FH-1630-PIE-BN 38	38	0,90	195
FH-1630-PIE-BN 50	50	2,00	195
For Plumbing FH-1630-PIE-PN 18	18	0,24	210



## Accessories for gas torch assembly FH-1630

### Constant pressure regulator FH-1630-PIE-R1

Applicable on propane gas tanks with a capacity of 5 kg or 11 kg. Thread connection fits to all FH-1630 high pressure hoses

Gas flow: max. 6 kg/h

Constant pressure: 2 bar

Hose connection thread: R 3/8" LH

Gas bottle connection thread:

W 21,8 x 1/14" LH (DIN-Kombi)



### Automatic cut-off valve FH-1630-PIE-CV

The automatic cut-off valve is fitted between the hoses SW4, SW5 or SW10 and the constant pressure regulator and cuts off the gas supply in the event of damage to the hose or torch handle.

Connection threads: R 3/8" LH



### Safety regulator FH-1630-PIE-LGS

The safety regulator with integrated constant pressure regulator (2 bar, 2 kg/h) and automatic cut-off valve is fitted between the hose and the gas bottle.

Hose connection thread: R 3/8" LH

Gas bottle connection thread:

W 21,8 x 1/14" LH (DIN-Kombi)



### High pressure hoses

Fitted with screw connections for FH-1630 constant pressure regulator and torch handle.

Connection threads: R 3/8" LH

Internal diameter: 4 mm

Colour: orange

FH-1630-PIE-SW 4 (length: 4 m)

FH-1630-PIE-SW 5 (length: 5 m)

FH-1630-PIE-SW 10 (length: 10 m)



### Torch assembly FH-1630-S-TS1

Torch assembly of nozzle BN38, torch handle FH-1630-S-HNZ and 5 m long pressure hose SW5.



## Tool Sets

The tool kits contain all basic tools usually required for the cable preparation and the installation of accessories. Different tool sets are assembled in a leather case.

### Complete tool kit IT-1000-001-CEE01



The tool kit IT-1000-001-CEE01 includes the following tool sets assembled in a leather case:

Ordering description	Contents
IT-1000-005	1 x Hammer, 300 g 1 x Screwdriver, 3,5 mm 1 x Screwdriver, 6,5 mm 1 x Hacksaw 1 x Hacksaw junior
IT-1000-006	1 x Pipe wrench, 250 mm 1 x Side cutter, 160 mm 1 x Pincers, 180 mm 1 x Blunt nose pliers, 180 mm 1 x Scissors, 200 mm
IT-1000-007	1 x Folding ruler, 2 m 1 x Wire brush 1 x Hook knife 1 x Cable knife 1 x Sharpening stone, 125x100 mm 1 x File set, medium size
IT-1000-008	1 x Control mirror, 100x100 mm 1 x Spreader 3 way 2 x Core separator 6 x Cleaning tissues 1 x Refillable solvent bottle (empty), 0,4 litre
IT-1000-010	1 x Diameter tape, 2 m
IT-1000-011	1 x Scoring tool for easy-strip screens
IT-1000-012	1 x Leather tool case, 400x125x280 mm

The individual tool sets can also be ordered separately.

### Complete tool kit IT-1000-001-CEE02



The tool kit IT-1000-001-CEE02 includes in addition to the tool kit IT-1000-001-CEE01 the following tool sets:

Ordering description	Contents
IT-1000-003	1 x Wedge positioner for spreading cable cores
IT -1000-015	1 x Tee-handles spinner wrench, 300 mm 1 x hexagon insert socket for wrenches, 13 mm 1 x hexagon insert socket for wrenches, 17 mm 1 x hexagon insert socket for wrenches, 19 mm 1 x hexagon insert socket for wrenches, 22 mm

The individual tool sets can also be ordered separately.

## Cable Preparation Tools

Cable knife  
EXRM-0607

Cable knife with fixed blade  
Length: 175 mm



Ratchet type cutter  
KR 600

Ratchet type cable cutter for aluminium and copper conductors, stranded or solid up to 400 mm<sup>2</sup>  
Application range: Ø max. 52 mm



Insulation stripping pliers  
EXRM-1004

Insulation stripping tool for paper insulated cables.  
Length: 190 mm  
Application range: Ø 15–50 mm



Insulation stripping string  
EXRM-0764

Insulation stripping string for plastic insulated cables.  
Length: 2000 mm



### Insulation and oversheath stripping tool IT-1000-024

Insulation and oversheath stripping tool for plastic insulated cables, ranging from 35 mm<sup>2</sup> 10 kV to 500 mm<sup>2</sup> 35 kV. The automatic feed (2 steps) and the 0 position, for a radial cut, allow a quick, safe and exact cutting of the cable oversheath and insulation. The special shape of the knife lifts the sheath at the cutting point and thus prevents damage to any components underneath. Tool is supplied completely with an operating manual in a box.

Application range: Ø 15–50 mm, thickness up to 10 mm



### Screen removal tool IT-1000-017

Screen removal tool for round plastic insulated conductors with a bonded semi-conductive screen. It is continuously adjustable to the core diameters within given range. Cutting depth easily changed with a knurled head screw. Delivered completely with operating key, hexagonal allen key and a spare blade in a tool box.

Application ranges	Ordering description		
	IT-1000-017-1	IT-1000-017-2	IT-1000-017-3
Over semi-conductive layer	Ø 16–34 mm	Ø 19–45 mm	Ø 26–48 mm
Rated Voltages U <sub>0</sub> /U (U <sub>m</sub> ) (kV)	Cable Cross Section (mm <sup>2</sup> ) according to IEC 502		
6 / 10 (12)	25–300	70–630	120–800
8,7 / 15 (17,5)	25–240	50–630	70–800
12 / 20 (24)	25–185	25–500	50–630
18 / 30 (36)	35–120	35–400	35–500
20 / 35 (42)	35–95	35–300	35–400



### Stripping tool HVIA-STRIPPER

Stripping tool for extruded and bonded cable screens and primary insulation for HV cables. Completely delivered in a heavy-duty plastic case, with operating manual and one set of coated blades.

Ordering description	Cable Diameter (mm)	
	min.	max.
HVIA-STRIPPER-35/ 90	35	90
HVIA-STRIPPER-75/150	75	150



## Miscellaneous Tools and Accessories

### T-socket wrench IT-1000-022

Fully insulated hexagon head T-socket wrench for allen screws

#### Ordering description

Ordering description	Width across flats
IT-1000-022-4	for 4 mm allen screw
IT-1000-022-5	for 5 mm allen screw
IT-1000-022-6	for 6 mm allen screw
IT-1000-022-8	for 8 mm allen screw



### Hexagon insert socket EXRM-1228

Extra long hexagon insert socket wrench is used for the installation of RICS adapters (page 38).  
Insert socket size: 24 mm  
Length: 90 mm



### Installation tool IT-1000-019

Tool for holding mechanical connectors in position while tightening the bolts  
Length of handle: 190 mm  
Application range:  $\varnothing$  15–50 mm



### Cleaning tissues EPPA-004

Tissues impregnated with water-soluble cleaning solution. For cleaning and degreasing of metal and plastic surfaces.  
Size: 200 x 140 mm folded to 80 x 60 mm  
Packaging: 50 pieces in a box



### Refillable bottle for solvent EXRM-0945-0,4

Refillable aluminium bottle with yellow cap for degreasing solution (empty), 0,4 litre

### Core separator B 6340, B 7060

Wedge core separator made of an impact resistant plastic material. The cable cores' separating with the B 7060 is done in two very simple steps: wedge in and twist.

Cable cross section	Ordering description (mm <sup>2</sup> )
25–150	B 6340
50–185	B 7060



### Inflation tool RDSS-IT-16

Inflation tool for RDSS duct seals complete with an ON/OFF switch and an automatic pressure monitoring system. The required CO<sub>2</sub> gas cylinders (E7512-0160) must be ordered separately. The standard package includes 1 tool per box plus operating manual and a 3 year warranty.



### CO<sub>2</sub> gas cylinders E7512-0160

16 gr. CO<sub>2</sub> gas cylinders for RDSS-IT-16 tool. Each gas cylinder inflates approx. 5 pcs of RDSS-100 duct seals. Each box contains 10 gas cylinders.



**Assembly paste  
EXRM-1500**

Assembly paste for cable accessories.  
Plastic tube with a sponge top and a cap closure. Lubricant is used for installation of RSTI screened T-connection system for gas-insulated switchgears with bushings type C (630A).  
Content: 40 g

**Fluorosilicone grease  
EXRM-0956-45**

Fluorosilicone grease in a bag, which is used for installation of RICS insulated T-adapter and RCAB straight adapter system for gas-insulated switchgears.  
Dimensions: 40 x 85 mm  
Content: 4,5 ml (6,6 g)

**Funnel  
EPPA-017**

Funnel to fill draining oil (MI) cable terminations with insulating oils, i.e. EPPA 016-1-10.

**Insulating oil  
EPPA-016**

Insulating oil is used to fill the crutch of draining oil cable terminations, e.g. type IDST (page 22), EPKT (page 18).

Description	Content
EPPA-016-1-08	0,8 liter
EPPA-016-1-10	1,0 liter
EPPA-016-1-17	1,7 liter



## Accessories for solderless earth connections

**Roll Springs**

Constant force roll springs used for solderless shield and armour connections.

Ordering Description	Application Diameter (mm)		Width (mm)
	min.	max.	
EPPA-034-E	17	29	25
EPPA-034-F	30	39	25
EPPA-034-G	40	60	25
EPPA-034-H	50	75	30



**Ligarex pliers  
IT-1000-004**

These special pliers are used for tightening the Ligarex ties. The Ligarex ties are used in earth connections of paper cables with metal sheaths.

**Ligarex ties**

Description	Length
EXRM-0302-500	500 mm
EXRM-0302-800	800 mm



## Sealing and filler tapes

**Filler tape EPPA-206**

EPPA-206 is a black mastic and mainly used as filling and shimming tape.

Ordering description	Width (mm)	Thickness (mm)	Length (mm)
EPPA-206-2-1500	50	2,0	1500
EPPA-206-4- 250	50	4,0	250

**Sealing tape S1052**

S1052 is a black; heat activated high flow sealant used for sealing, corrosion protection and large void filling.

Ordering description	Width (mm)	Thickness (mm)	Length (mm)
S1052-1-500	25	1,0	500

