



Energy Division

Accessories for the Installation
of Low Voltage & Medium Voltage
heat-shrinkable products for the
Electrical Power Industry

FH-1630 Torch Assembly

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.

FH-1630-S-HNZ Torch handle

Torch handle with holder and shutoff valve for use on all FH-1630-S nozzles, -PIE regulators and hoses.

Nozzle connection thread: R3/8", right
Hose connection thread: R3/8", left



FH-1630-S-HSZ Torch handle

Torch handle with holder and shutoff valve and pilot/full flame lever for all FH-1630-S nozzles, -PIE regulators and hoses.

Nozzle connection thread: R3/8", right
Hose connection thread: R3/8", left

Nozzles for FH-1630-S handles

	Nozzle Ø (mm)	Gas consumption max (kg/h)
FH-1630-S-BN28	28	0.46
FH-1630-S-BN38	38	0.90
FH-1630-S-BN50	50	2.00
FH-1630-S-PN17 (for plumbing)	17	0.24



FH-1630-S-MC10 Torch box with content

Torch box of red enamelled galvanized steel, three nozzles BN28, BN38, and PN17, one torch handle HSZ, one constant pressure regulator PIE-R1, one automatic cut-off valve PIE-CV, one 5 m high pressure hose PIE-SW5. Weight: 4.8 kg
Size: 450 x 210 x 74 mm



FH-1630-S-MC Torch box, empty

Torch box of red enamelled galvanized steel.
Size: 450 x 210 x 74 mm

FH-1630-S-TS1 Torch Assembly (Mini)

One nozzle BN38, one torch handle HSZ and one 5 m high pressure hose SW5 packed in a poly bag.



FH-1630-S-BH20 Compact gas bottle

This highly portable lightweight gas bottle is supplied complete with a robust carrying hook and a stand for the work bench or desk top. The bottle and stand are finished in red enamel and the unfilled bottle weighs only 1.45 kg. Capacity: 0.425 kg



**FH-1630-PIE
Torch handle**

Torch handle with Piezo automatic ignition. Gas flow with pressed trigger only.
Nozzle connection: bayonet socking
Hose connection thread R3/8", left



**Nozzles for
FH-1630-PIE handle**

	Nozzle Ø (mm)	Gas consumption max (kg/h)
FH-1630-PIE-BN28	28	0.46
FH-1630-PIE-BN38	38	0.90
FH-1630-PIE-BN50	50	2.00
FH-1630-PIE-PN18 (for plumbing)	18	0.24



**Constant pressure regulator
for all FH-1630 hoses**

Applicable on propane gas tanks with a capacity of 5 kg to 11 kg.

Gas flow: max 6 kg/h
Constant pressure: 2 bar

The constant pressure regulator screw connections are compatible with all FH-1630 high pressure hoses.



	Hose connection thread	Gas bottle connection thread
FH-1630-PIE-R1	R ³ /8" LH	W21.8 x 1/14" LH DIN/Combi
FH-1630-PIE-R2	R ³ /8" LH	W20 x 1/14" LH POL
FH-1630-PIE-R3	R ³ /8" LH	W21.8 x 1/14" LH SHELL

**High pressure hoses for all
FH-1630 handles**

Fitted with screw connections for all FH-1630 constant pressure regulators and torch handles.

Internal diameter: 4 mm
Connection threads: R3/8" LH
Colour: orange

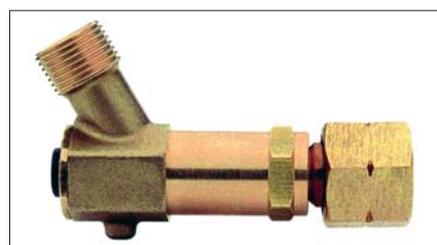
FH-1630-PIE-SW4	4 m length
FH-1630-PIE-SW5	5 m length
FH-1630-PIE-SW10	10 m length



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

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

Connection threads: R3/8" LH



**FH-1630-PIE-LGS
Safety valve**

The safety valve is a combination of FH-1630-PIE-R1 and FH-1630-PIE-CV, including an automatic gas leakage device.

Max. hose length: 10 m



Torch holder

The snap-fitting torch holder enables the torch to be put aside in a convenient clean and safe position during installation work in the field. Galvanized steel.

	Nominal diameter of fixing ring (mm)
FH-1630-TH229	229
FH-1630-TH300	300



**IT-1000-001
Tool Kit for cable installation**

A compact and comprehensive kit for the installation of cable accessories, joints, terminations, etc.



**IT-1000-002
Cable Vice**

The IT-1000-002 cable vice for fast and easy installation of joints and the repair of cables. An adaptor is included which enables the cable vice to be used for the installation of terminations.

Suitable for field installation and for workshop use. When fixed to a work bench, the upper part with the clamps can be used without the legs.

Cable vice for the installation of joints and the repair of cables.

Adaptor and clamp for the installation of terminations



Overall diameter of cable (mm)	Length, adjustable (mm)	Width of legs (mm)	Height of upper part, adjustable (mm)	Height (total), adjustable (mm)	Weight (total) (kg)
15 - 100	700 - 1210	800	450 - 580	1010 - 1140	11.5

Individual Tools & Accessories

IT-1000-019 **Installation Tool for Mechanical** **Connectors**

This tool avoids the cable cores being over bend during installation of mechanical connectors.

Application diameter range:
15 - 60 mm

Length of handle: 205 mm



IT-1000-031 **Screen Removal Tool**

For bonded screens on sector shaped conductors packed in a belt pouch.

Spare blade included



IT-1000-030-2 **Screen Removal Tool**

Tyco Electronics Screen Removal Tool IT-1000-030-2 for bonded screens on round conductors of MV Cables, incl. 1 spare blade, silicone grease and allen key delivered in a robust polypropylene box. Suitable for one and three core cables.

Features:

- Application range over insulation 10 - 50 mm
- Min. screen cutback 10 mm
- Variable cutting thickness



Spare Blade IT-1000-030-2-Blade

for Screen Removal Tool
IT-1000-030-2



Silicone Grease **IT-1000-030-2-Grease**

for Screen Removal Tool
IT-1000-030-2



Tyco Cable Sheath Jogging Tool

SIML-O-0711744-1

PG2 Cable Diameter: 21 - 35 mm

SIML-O-0711745-1

PG3 Cable Diameter: 26 - 52 mm

SIML-O-0711746-1

PG4 Cable Diameter: 47 - 75 mm



Individual Tools & Accessories

IT-1000-004 Ligarex Pliers

Ligarex Pliers are used to fasten stainless steel Ligarex collar.

Description	Length
EXRM-0302-250	250 mm
EXRM-0302-500	500 mm
EXRM-0302-800	800 mm



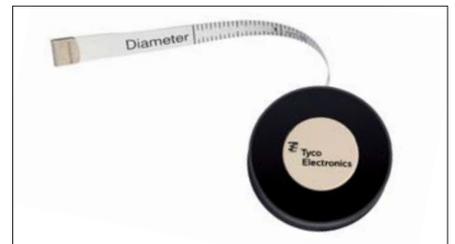
AD-1522-1 Crimp Tool

The AD-1522 crimp tool crimps all DuraSeal crimp and PolyCrimp products.



IT-1000-010 Diameter Tape

Total length: 2 m

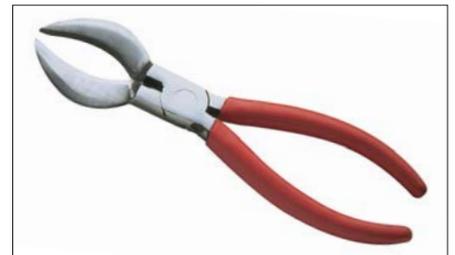


EXRM-1004 Insulation Removal Tool

For the removal of paper insulation.

Application Diameter Range:
13 - 55 mm

Length: 190 mm



EXRM-0607 Cable Knife

Total length: 175 mm



EXRM-1228 Hexagon Insert Socket

Extra long hexagon insert socket wrench, used for the installation of RICS-adaptors.

Insert socket size: 19 mm



Individual Tools & Accessories

IT-1000-023 Cordless Impact Wrench

For the installation of mechanical connectors and lugs using shear-head bolts

Features:

- Simplified, safer and faster installation
- No additional device needed
- Light, ergonomic and practical design
- Can be used for shear-head bolts up to 100 Nm
- Powerful battery sufficient for approx. 20 four-bolted mechanical connectors per battery charging cycle
- Everything included for all standard mechanical connectors and lugs



Tool case content:

- 1 Cordless impact wrench
- 1 Battery charger type UC14YFA
- 2 Ni-MH batteries 12 V / 2.6 Ah
- 1 Installation Instruction
- 1/2" hexagonal socket sizes: 10, 13, 17, 19, 22, 27
- 2 Allen key inserts 6 & 8 mm
- 1 Adaptor to 1/4" hexagonal drive



Spare Parts IT-1000-023

- Set SOCKET-MTR and Batteries IT-1000-023-BAT-NIMH26 available on request

IT-1000-023-CHRG-012 Inverter 12 VDC - 230 VAC / 300 W

Inverter to power 230 V mains equipment via a 12 V battery for use in a car, caravan or boat.

Features:

- Short circuit & overload protection
- Surge & subvoltage shutdown
- Battery low / high shutdown
- Reverse polarity protection
- Overtemperature shutdown
- Main switch at the equipment



Specifications:

- Input Voltage:
- Output Voltage / Output waveform:
- Output Frequency:
- Continuous Power:
- Peak Power:
- Efficiency:
- Dimensions (B x H x T):
- Weight:
- Quality Mark:

- 12 V (10 - 15 V) DC
- 230 V AC modified sine wave
- 50 Hz
- 300 W
- 600 W
- approx. 90 %
- 165 x 88 x 74 mm
- approx. 0.9 kgs
- CE

Individual Tools & Accessories

CV-1981-230V-1600W
CV-1983-220V-2260W
CV-1983-220V-3060W
Portable Hot Air Heater

For installation of various heat shrink products and solder sleeve devices

Features:

- Robust, double-insulated unit
- Safe, quiet operation
- Precisely variable temperature
- Variety of reflectors available
- Easy fixturing for dual opposing heating

The CV-1981-MK2 and the CV-1983 Thermoguns are robust, double insulated, heavy duty hot air tools. A motor driven fan forces air through the heating element which is enclosed in a stainless steel barrel and safety guard. The Thermoguns are fitted with a Triac Power Control which varies power to the element by means of a control knob situated at the rear of the gun. Hence output temperature is adjusted in this way. Output wattage is therefore variable.

Note:

The optional Barrel Adaptor AD-1962 is required to use the PR range of reflectors with the CV-1983.

PR Reflectors

Lightweight, stainless steel heat reflectors ensure fast, even recovery of a wide range of heat-shrinkable products.



Accessories	Application
PR-12	Tubing from 6 mm to 25 mm diameter
PR-13	Tubing up to 6 mm diameter
PR-21	Tubing up to 25 mm diameter
PR-24	Tubing/Moulded parts from 25 mm to 35 mm diameter
PR-26	Small Solder Sleeve products
PR-33	Solder Sleeve products from 19 mm to 27 mm

Individual Tools & Accessories

EXRM-1455-600-1000 Heat Protection Cover

Dimensions:
Length 1000 x Width 600 mm

Material:
Kevlar needle felt



EXRM-0764 Insulation stripping string

Insulation stripping string for plastic insulated cables.

Length: 2 m



EXRM-0945-0.4 Safety Bottle

For cleaning solvents, empty.
Material: Aluminum
Content: 0.4 litre



EXRM-0945-1.0 Safety Bottle

Content: 1.0 litre

EPPA-004 Cleaning Tissue

A special type of cellulose paper multiple folded and impregnated with isopropyl alcohol. Cleaning tissues can be used to clean and degrease the surface of metal, plastic, rubber, etc. components before the installation of heat-shrinkable products. Supplied in individual sachets.

Size:
140 x 200 mm, folded to 60 x 80 mm



About Tyco Electronics

Tyco Electronics Ltd. is a leading global provider of engineered electronic components, network solutions, specialty products and undersea telecommunication systems, with fiscal 2008 sales of US\$14.4 billion to customers in more than 150 countries. We design, manufacture and market products for customers in a broad array of industries including automotive; data communication systems and consumer electronics; telecommunications; aerospace, defense and marine; medical; energy; and lighting. With approximately 7,000 engineers and worldwide manufacturing, sales and customer service capabilities, Tyco Electronics' commitment is our customers' advantage. More information on Tyco Electronics can be found at <http://www.tycoelectronics.com/>.

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Energy Division – innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, power measurement and control.

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