About Cable Services

Founded in the early 1970’s, Cable Services has been a specialist distributor of Cable and Cable Accessories since its inception. The involvement with the major manufacturers of jointing materials has meant that Cable Services has always been a recognised supplier of the specialised tooling associated with cable jointing and terminating. With this catalogue we are attempting for the first time to bring together under one cover all the essential tools required by the cable jointing community. All the key items featured in this catalogue will normally be available from stock. Where an item is out of stock, Cable Services would expect to deliver within a few days of receipt of an order.

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NOTE: If the item of tooling you are looking for is not included in this catalogue, please tell us - we are always looking for suitable items to add to our range, and can always source tools from alternative suppliers.
One telephone call is all it takes to reserve a crimping tool for collection or despatch to site.

Competitive rates for daily, weekly or extended hire.

Tools Available For Hire

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<th>Manual</th>
<th>Prysmian / Cembre BM120 Type Non Ratchet 10 - 120mm².</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Hydraulic</td>
<td>Prysmian / Cembre G10TS Hand Hydraulic Type and FP10 Foot Operated Type. 10 - 400mm².</td>
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<tr>
<td>Medium Hydraulic</td>
<td>Cembre ECW-H3D up to 630mm².</td>
</tr>
<tr>
<td>Large Hydraulic</td>
<td>Prysmian / Cembre E22H Type with Foot Pump. Copper Conductors to 1000mm².</td>
</tr>
<tr>
<td>Hydraulic Cutter</td>
<td>Cembre TC120 Type. Maximum Cutting Diameter 120mm.</td>
</tr>
<tr>
<td>Also Drum Jacks &amp; Cable Rollers</td>
<td></td>
</tr>
</tbody>
</table>

Extensive Stocks of Prysmian and Cembre Tooling.

Contact one of our sales offices on the numbers below:

- 01978 340450
- 01785 825970
- 0151 9339022
- 0141 6212060
Screen Scoring Tools
To strip non-bonded semi conductive screen off medium voltage cable.
Part Number - LHM1R
for diameters 14mm to 40mm
leaves a semi-conductor strip length of 30 or 40mm
LHML1R spare blade for LHM 1R
Part Number - LHM2R
for diameters 38mm to 60mm leaves a semi-conductor strip length of 30, 40, 45, 55 or 60mm
LHML2R spare blade for LHM 2R

Bonded Screen Removal Tools
To strip bonded semi conductive screen off medium voltage cable.
Part Number - ASC25-R1 strip length 25mm,
for diameters 14mm to 40mm
leaves a semi-conductor strip length of 25mm
Part Number - ASC40-R1 strip length 40mm,
for diameters 14mm to 40mm
leaves a semi-conductor strip length of 30 or 40mm
Part Number - ASC25-R2 strip length 25mm,
for diameters 38mm to 60mm
Part Number - ASC40-R2 strip length 30mm or 40mm,
for diameters 38mm to 60mm

Outer Sheath Stripping Tools
Part Number - PG1
for diameters 8mm to 21mm
Part Number - PG2
for diameters 21mm to 35mm
Part Number - PG3
for diameters 26mm to 52mm
Part Number - PG4
for diameters 47mm to 75mm

Insulating Stripping Tools
To strip the insulation off medium voltage cable.
Part Number - BRM-RD1
for diameters 14mm to 40mm
Part Number - LH2
for diameters 38mm to 60mm
Bonded Screen Removal Tools
Universal tool for shaving the bonded semiconductor layer of medium voltage cables 10-30 kV+. Working range between 10 and 50mm diameter. At the end of the shaving operation the stop can be made manual by switching off the sliding guide part. Adjustable cutting depth of blade - 0 - 1.2mm (steps of 0.1mm).
Part Number - GB-P20
Spare Blade including screws
Part Number - GB-P20-S6

Sheath & Insulation Stripper
Dual function tool. This tool strips outer jackets with diameters between 15 and 50mm, and XLPE insulation up to a thickness of 8mm or 10mm. The automatic feed (2 steps) and the 0 position, for a radial cut, guarantees quick and accurate removal of the cable jacket and insulation.
Part Number - GB-M20
Part Number - GB-M20-S5 replacement plastic rollers complete
Part Number - GB-M20-S8 replacement blades (5pcs) (10mm thickness of cut)
Part Number - GB-M20-S9 insert to protect the insulation screen

Chamfering Tool
For removing the sharp edge of the insulation after using the insulation stripping tool where the jointing/terminating system requires a tapered finish. Diameters 15mm to 40mm.
Part Number - GB-KG-05-3

Tool Set
Complete cable preparation tool kit consisting of GBM20 sheath stripper and plastic insert, GBP20 bonded screen peeling tool, GB-KG-05-3 universal chamfering tool and a transportation box.
Part Number - GB-PM20
Tyco Electronics

Extra High Voltage Insulation & Bonded Screen Removal Tool
Part Number - HVIA-STRIPPER-75/150
cable diameters from 75mm to 150mm
Part Number - HVIA-STRIPPER-35/90
cable diameters 35mm to 90mm

Bonded Screen Removal Tool
For bonded screens on sector shaped conductors.
Part Number - EXRM 0305

Prysmian

Low Voltage Cable Preparation Tools

Sheath Stripping Tool
Cable cutting and stripping tool for diameters up to 8mm.
Part Number - UNI8

Sheath Removal Tool
Part Number - UNI25+
cables 25mm and above
Part Number - UNI29
cables 4.5mm to 29mm
Part Number - UNI40
cables 19mm to 40mm
Part Number - UNIB1
spare blade for UNI29 & UNI40
Part Number - UNIB2
spare blade for UNI25+

Cembre

Electricians Scissors
Part Number - SC1
Cable Cutting Tools

A range of ratchet operated hand tools for cutting cables up to 75mm diameter.

Part Number - GB-MKS-300
  cutting diameter up to 35mm

Part Number - GB-MKS-500
  cutting diameter up to 52mm

Part Number - GB-MKS-300S
  cutting diameter up to 35mm
  with needle roller bearings

Part Number - GB-MKS-500S
  cutting diameter up to 52mm
  with needle roller bearings

Part Number - GB-MKS-600S
  two handed tool for
  cutting diameter up to 62mm

Part Number - GB-MKS-800S
  two handed tool for
  cutting diameter up to 80mm

Cable cutter for multi-wire telephone/data and instrument cables.
Part Number - GB-MKS-750T
  cutting diameter up to 75mm

Cembre

Cable Cutting Tools

Hand Operated

Hand operated hydraulic tool specifically designed to cut copper, aluminium-steel cables, steel ropes, copper, aluminium and steel rods. Maximum cutting diameter 24mm.
Part Number - HT-TC-026

Also available as a cutting head for use with a separate pump.

Hand Operated

Hand operated hydraulic tool for cutting copper, aluminium-steel cables and steel ropes. Its has a two stage hydraulic system to reduce operator time and effort. Maximum cutting diameter 40mm.
Part Number - HT-TC-041

Also available as a cutting head for use with a separate pump.
Cable Cutting Tools

Hand Operated
Hand operated hydraulic tool specifically designed to cut copper & aluminium cables and telephone cables. Maximum cutting diameter 50mm.

Part Number - HT-TC-051

Also available as a cutting head for use with a separate pump.

Hand Operated
Hand operated hydraulic tool specifically designed to cut copper & aluminium cables and telephone cables. It has a two stage hydraulic system to reduce operator time and effort. Maximum cutting diameter 85mm.

Part Number - HT-TC-0851

Also available as a cutting head for use with a separate pump.

Hydraulic Cutting Head
Hydraulic cutting head for use with various pumps (see crimping tool section). Capable of cutting copper, aluminium and telephone cable up to 120mm in diameter.

Part Number - TC-120

Tyco Electronics

Miscellaneous Cable Jointing Tools

Wooden Handle Cable Knife
Part Number - EXRM0607

Holding Tool
Holding tool for mechanical connectors. Avoids damage to conductors during installation of mechanical shear bolt connectors.

Part Number - IT-1000-019

Cordless Impact Wrench
For the installation of Tyco Shear Bolt Mechanical Connectors and Lugs.
Part Number - IT-1000-023
Non-Ratchet Handtool
Non-ratchet single stroke tool with a single adjustable indent die. 10 - 120mm².
Part Number - BM120U

Hand Hydraulic Crimping Tool
Two stage hydraulic tool delivers 11.5 tonnes with quick ram advance. Pre-set overload ensures crimp reliability. Accepts wide range of interchangeable die sets.
Part Number - G10TS

Hydraulic Foot Pump
Two stage foot operated pump with operating pressure of 700 Bar (10,000 psi). An audible overload valve operates at the end of the crimping cycle.
Part Number - FP10
   (pump)
Part Number - FP10-2
   (pump, hose, case)
Part Number - FP10-4
   (pump, hose, case, GT10 head)

Hydraulic Compression Head
The G shaped head enables easy engagement with the cable and connector. 11.5 tonnes compression force. Accepts a wide range of interchangeable die sets with range 10 - 400mm².
Part Number - G10H

Large Compression Head
The latch top arrangement allows easy access to connector particularly with cable joints. Compressive force of 22 tonnes enables installation of copper and aluminium up to 1000mm².
Part Number - E22
Die Sets
A wide range of hexagon and indent die sets to fit G10 type tools.

**Copper Nest Die**
Part Number - UNX**C** (** denotes conductor size)  
10 to 300mm²

**Copper Indentor Dies**
Part Number - UP10-25C  
10, 16 and 25mm²
Part Number - UP35-50C  
35 and 50mm²
Part Number - UP70-300C  
70, 95, 120, 150, 240 and 300mm²

**Copper Hexagonal Die Set**
Part Number - U**CHEX** (** denotes conductor size)  
10 to 400mm²

Recommendations for aluminium connectors available upon request.

**Die Sets**
Nest and indent dies for the E22 head.

**Copper Nest Dies**
Part Number - EDNX***C** (** denotes conductor size)  
150 to 630mm²
Part Number - EDN***C** (** denotes conductor size)  
800 and 1000mm²

**Copper Indentor Dies** (Requires Adaptor)
Part Number - EDP150-185C  
150 and 185mm²
Part Number - EDP240-500C  
240, 300, 400 and 500mm²
Part Number - EDP630C  
630mm²
Part Number - EDP800-1000C  
800 and 1000mm²

**Adaptor To Hold Indentor Inside Head**
Part Number - ED22AD1  
150 to 500mm²
Part Number - ED22AD2  
630, 800 and 1000mm²
Cembre

Crimping Tools

**Ratchet Handtool**
*Ratchet handtool for end sleeves 25, 35 and 50mm².*
Part Number - **HNKE50**

**Ratchet Tool**
*Ratchet tool for pre-insulated connectors.*
Part Number - **HP1**
0.2 to 2.5mm²
Part Number - **HP3**
2.5 to 6mm²

**Ratchet Tool**
*Ratchet tool for end sleeves (boot lace ferrules).*
Part Number - **ND4**
0.5 to 4mm²
Part Number - **ND3**
6 to 16mm²
Part Number - **ND2**
1 to 6mm²
Part Number - **ND1**
0.3 to 1.5mm²

**Ratchet Tool**
*Ratchet tool for un-insulated copper tube terminals.*
Part Number - **HN1**
0.25 to 10mm²
Part Number - **HN5**
10 to 16mm²

**Non-Ratchet Single Stroke Tool**
*Non-ratchet single stroke tool with adjustable indent die for non-insulated copper tube terminals.*
Part Number - **TN70SE**
6 to 70mm²
Part Number - **TN120SE**
10 to 120mm²
Battery Operated Hydraulic Crimping Tools

Battery Hydraulic Crimping Tool
Self contained hand tool. Lightweight and balanced for single handed use, 50KN crimping force. Accepts dies from CEMBRE 50KN die set range. 10 to 240mm².
Part Number - B51

Battery Hydraulic Crimping Tool
Self contained hand tool. Lightweight and balanced for single handed use, 130KN crimping force. Accepts all semi-circular slotted dies common to most 130KN tools.
Part Number - B131-C

Hand Hydraulic Crimping Tools

Compact Hand Hydraulic
Lightweight, compact hand hydraulic crimper. Pre-set overload when maximum pressure is reached. Accepts CEMBRE 50KN dies. 10 to 240mm².
Part Number - HT51

Hand Hydraulic
Hand hydraulic crimping tool. Two stage action consisting of fast advance of ram to engage connector then slower high pressure stage to complete the process. Accepts standard slotted semi circular dies.
Part Number - HT120
Cemtre

Crimping Tools

Hydraulic Foot Pump
Two speed foot operated pump developing a maximum pressure of 700 Bar (10,000 psi). Supplied with standard 3m hose complete with female self-lock quick coupler.
Part Number - PO7000

Electric Pump
Portable electro-hydraulic pump, operating at 24V dc by battery for independent use, developing 700 Bar pressure. Supplied with 3m flexible hose complete with male + female self-lock quick couplers, remote control, external battery charger, canvas holdall for carrying accessories.
Part Number - B70M-P24

Hydraulic Compression Head
Standard G-shaped head complete with quick automatic coupler for connection to hydraulic pump. Accepts standard interchangeable die sets.
Part Number - RHC131

Wide Jaw G Tool
Wide jaw G tool, particularly suitable for cable jointing applications on large cables. Complete with quick automatic coupler for connection to hydraulic pump. Accepts standard interchangeable die sets.
Part Number - RHC131L
Die Sets

Hexagonal Die Sets
A range of hexagon die sets for use with CEMBRE SKN tools (HT50 and B50).

Part Number - ME2-50 - 10mm²
Part Number - ME3-50 - 16mm²
Part Number - ME5-50 - 25mm²
Part Number - ME7-50 - 35mm²
Part Number - ME10-50 - 50mm²
Part Number - ME14-50 - 70mm²
Part Number - ME19-50 - 95mm²
Part Number - ME24-50 - 120mm²
Part Number - ME30-50 - 150mm²
Part Number - ME37-50 - 185mm²

For information on selecting die sets for flexible and aluminium conductors, please contact our sales office.

Hexagonal Die Sets
A range of semi-circular grooved dies to fit HT120 crimping heads.

Part Number - ME2-C - 10mm²
Part Number - ME3-C - 16mm²
Part Number - ME5-C - 25mm²
Part Number - ME7-C - 35mm²
Part Number - ME10-C - 50mm²
Part Number - ME14-C - 70mm²
Part Number - ME19-C - 95mm²
Part Number - ME24-C - 120mm²
Part Number - ME30-C - 150mm²
Part Number - ME37-C - 185mm²
Part Number - ME48-C - 240mm²
Part Number - ME60-C - 300mm²
Part Number - ME80-C - 400mm²
Die Sets

Copper Nests & Indentor Die

Part Number - MA2-C  - 10mm²
Part Number - MA3-C  - 16mm²
Part Number - MA5-C  - 25mm²
Part Number - MA7-C  - 35mm²
Part Number - MA10-C  - 50mm²
Part Number - MA14-C  - 70mm²
Part Number - MA19-C  - 95mm²
Part Number - MA24-C  - 120mm²
Part Number - MA30-C  - 150mm²
Part Number - MA37-C  - 185mm²
Part Number - MA48-C  - 240mm²
Part Number - MA60-C  - 300mm²

Copper Indentor Die

Part Number - PA10-C  - 10, 16, 25, 35 and 50mm²
Part Number - PA24-C  - 70, 95 and 120mm²
Part Number - PA48-C  - 150, 185 and 240mm²
Part Number - PA60-C  - 300mm²

For information on selecting die sets for flexible and aluminium conductors, please contact our sales office.

Crimping Gauges for Hydraulic Tools

MPC 2 device complete with test die set to measure the maximum force developed by Cembre Tools reference: HT131C, HT131L-C, HT120, RHC131, B131-C, B131C-L.

Part Number - MPC 2

MPC 3 device complete with test die set to measure the maximum force developed by Cembre Tools reference: HT43, HT51, RH50, RHM50, HT61, RH61, B46, B51, B62.

Part Number - MPC 3
Operating Poles

Bowthorpe operating poles are manufactured from high quality glass reinforced epoxy resin, suitably assembled and finished to comply with relevant design requirements. The present range reflects more than 30 years experience of supplying the World’s Power Authorities.

The standard range falls into three groups:

**Standard Series**

Normally supplied in 1.2m lengths (0.69m lengths available to order). 40mm diameter, fitted with copper alloy interlocking clips where appropriate. Foam filled versions available (suffix FF).

**Bottom Section**

Bottom section complete with rain shield.
Part Number - **P4B**

Intermediate section.
Part Number - **P4I**

**Top Section**

Top section with riveted termination.
Part Number - **P4TR**

**Top Section**

Top section with concealed joint termination.
Part Number - **P4TCJ**

**Top Section**

Top section with spring clip termination.
Part Number - **P4TS**

**Top Section Adaptor**

Top section adaptor to convert intermediate section to top section spring clip termination specification.
Part Number - **PI/PTS**
Operating Poles

GR Series
Specially developed for tower and sub-station applications. Fully tested and approved to ESI standard 41-21 (draft). Supplied with non-slip hand grip and stainless steel interlocking clips where appropriate. Available with riveted and concealed joint top section terminations.

**Type II Rivited Termination**
Two sections each 1.2m long x 40mm diameter retained together with chain, with riveted top section termination.
Part Number - GR2R

**Type II Concealed Joint Termination**
Two sections each 1.2m long x 40mm diameter retained together with chain, with concealed joint top section termination.
Part Number - GR2CJ

**Type III**
Sections each 1.2m long x 40mm diameter. Suitable for fitting into bottom of Type I and Type II to extend length.
Part Number - GR3
Tyco Electronics Bowthorpe EMP

Operating Sockets

Ring Type
Operating socket for ring type clamps, suitable for riveted top section poles (for use with clamps 420R, 204R, S9BR).
Part Number - **PHS4S** (Window)

Pole Heads
Pole heads for use with spring clip top section poles (P4TS and Adaptor P1/PTS).

For Bowthorpe Earth Clamps
Part Number - **PH031**

Temporary Earthing Hook
Part Number - **PHTEH**

Universal Adaptor
Part Number - **PHUA**

Splash Plate
Part Number - **PHSP**

For Universal Fuse Cut-Outs
Part Number - **PH437**

For J&P Fuse Cut-Outs
Part Number - **PH380**

For LEL Fuse Cut-Outs
Part Number - **PH458**
Tree Pruning Applications

**Poles**

Heavy duty section where additional rigidity is required. 1.3m long x 49mm diameter fitted with stainless steel interlocking clip.
Part Number - HP4I

**Pole Adaptor**

Adaptor to enable standard series intermediate and top section poles to be connected to the HP4I section.
Part Number - HP/PI

NOTE: To fit the tree pruner and pruning saw to the HP4I section, an adaptor HP/PI and a standard range top section (P4TS) or top section adaptor (PI/PTS) are required.

**Tree Pruner**

Part Number - PH712C

**Pruning Saw Complete With Sheath**

Part Number - PH440S
Gas Torches & Accessories

The Tyco FH1630 torch assembly for installation of heat shrink accessories offers maximum burning efficiency and best balance of surface pre-heat.

**Torch Handle**

Torch handle with shut off valve for use with a FH1630-S nozzles, PIE regulators and hoses.
Nozzle connection thread R\(\frac{1}{8}\)" right.
Hose connection thread R\(\frac{1}{8}\)" left.
Part Number - FH-1630-S-HNZ

**Torch Handle**

Torch handle with holder and shut off valve and pilot/full flame lever for all FH1630-S nozzles, PIE regulators and hoses.
Nozzle connection thread R\(\frac{1}{8}\)" right.
Hose connection thread R\(\frac{1}{8}\)" left.
Part Number - FH-1630-S-HSZ

**Nozzles**

Nozzles for FH-1630-S handles.
Part Number - FH-1630-S-BN28
28mm diameter
Part Number - FH-1630-S-BN38
38mm diameter
Part Number - FH-1630-S-BN50
50mm diameter
Part Number - FH-1630-S-PN17
17mm diameter

**Torch Kit**

Red enamel steel box containing BN28, BN38 and PN17 nozzles, torch handle HSZ, constant pressure regulator R1, automatic cut off valve CV and 5m high pressure hose.
Part Number - FH-1630-S-MC10

**Simple Torch Assembly**

Simple torch assembly consisting of nozzle BN38, torch handle HSZ and 5m hose SW5.
Part Number - FH-1630-S-TS1
**Torch Handle**

Torch handle with piezo automatic ignition. Gas flow when trigger pressed only.  
Nozzle connection bayonet socket.  
Hose connection thread R1/8” left.  
Part Number - FH-1630-PIE

**Nozzles**

Nozzles for Piezo handles.  
Part Number - FH-1630-PIE-BN28  
28mm diameter  
Part Number - FH-1630-PIE-BN38  
38mm diameter  
Part Number - FH-1630-PIE-BN50  
50mm diameter  
Part Number - FH-1630-PIE-PN18  
18mm diameter

**Constant Pressure Regulator**

Constant pressure regulator for all FH-1630 hoses. Suitable for propane gas bottles from 5kg to 11kg. 2 bar constant gas pressure.  
Part Number - FH-1630-PIE-R1  
Gas bottle connection  
W21.8 x 1/4” LH DIN/COMBI  
Part Number - FH-1630-PIE-R2  
Gas bottle connection  
W20 x 1/4” LH POL  
Part Number - FH-1630-PIE-R3  
Gas bottle connection  
W20 x 1/4” LH SHELL

**High Pressure Hoses**

High pressure hoses for all FH-1630 handles. Fitted with screw connections for FH1630 constant pressure regulator and handles.  
Part Number - FH-1630-PIE-SW4  
4m long  
Part Number - FH-1630-PIE-SW5  
5m long  
Part Number - FH-1630-PIE-SW10  
10m long
**Automatic Cut Off Valve**

Automatic cut off valve. Fitted between the hose and the constant pressure regulator - cuts off the gas supply in the event of damage to the hose or handle.
Part Number - **FH-1630-PIE-CV**

**Safety Valve**

Safety Valve - combining the constant pressure regulator (FH-1630-PIE-R1) and the automatic cut off valve.
Part Number - **FH-1630-PIE-LGS**

**Torch Holder**

Torch holder - snap fitted on the gas bottle providing a convenient parking place for the gas torch in on site conditions.
Part Number - **FH-1630-TH229**
Nominal bottle diameter - 229mm
Part Number - **FH-1630-TH300**
Nominal bottle diameter - 300mm
Cable Spiking Kit

The Bowthorpe cable spiking kit is designed to prove a selected cable is dead before site work begins. The kit consists of a hand operated hydraulic pump connected to the spiker head by a 6m long fully insulated hose (longer lengths can be supplied). All parts are supplied in a stout wooden case. Cables up to 102mm in diameter can be pierced by the diamond shaped chisel.

Part Number - BOW-F-CSTE

WARNING: An independent earth lead MUST be fitted to the cable spiker body before the equipment is used. Failure to do so could have serious consequences for the operator in the event of a live cable being pierced.

Lucy Cabinet Keys

Lucy ‘T’ Key
Lucy ‘T’ key for pillar shell doors
Part Number - T-KEY

Lucy Triangular Key
Lucy triangular headed pillar steel door key
Part Number - TRI-KEY

Cable Drum Jacks & Spindles

Screw type fabricated steel.

Part Number - J3CS 3 Tonne
Part Number - J6CS 6 Tonne
Part Number - J8CS 8 Tonne

Various weights of spindles available. Please contact our sales office. A complete range of cable rollers is also available. Please contact our sales office with your requirements.

Cable Pulling Stockings

High tensile galvanised steel stockings.

Part Number Overall Length Cable Diameter

| CS 11* | 305mm | 6 - 13mm |
| CS 12* | 430mm | 13 - 19mm |
| CS 13* | 510mm | 19 - 25mm |
| CS 14* | 610mm | 25 - 38mm |
| CS 15* | 735mm | 38 - 50mm |
| CS 16* | 865mm | 50 - 63mm |
| CS 17* | 990mm | 63 - 89mm |
| CS 18* | 990mm | 89 - 115mm |

Also available in stainless steel or kevlar

*Suffix - S = Single Eye   D = Double Eye   L = Lace Up
Martindale Test Equipment

WARNING: Test equipment is designed for use only by competent persons with appropriate qualifications and experience.

110V CT Industrial Plug
Invaluable for checking sockets in factory or on site installations. Design for use on 110V centre tapped circuits.
Part Number - CP301

<table>
<thead>
<tr>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage: 110V AC (55-0-55V centre tapped only)</td>
</tr>
<tr>
<td>Operating Current: 30mA</td>
</tr>
<tr>
<td>Weight: 180g</td>
</tr>
<tr>
<td>Overvoltage Category: 2 110V</td>
</tr>
</tbody>
</table>

Professional Check Plug
The professional Buzz It check plug has an IEC socket with an interchangeable 3 pin adaptor and TL 88 3 way fused lead with croc clips allowing testing at light fittings, distribution boards and terminals.
Part Number - BZ600

<table>
<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Main Supply: 200 - 250V (30-70Hz)</td>
</tr>
<tr>
<td>Power Consumption: &lt;1.5W</td>
</tr>
<tr>
<td>Temperature Range: -10°C to 40°C at 60%RH (max)</td>
</tr>
<tr>
<td>Earth Leakage: &lt;5mA</td>
</tr>
<tr>
<td>Dimensions: 65 x 65 x 47mm</td>
</tr>
<tr>
<td>Housing: Flame retardant ABS</td>
</tr>
<tr>
<td>Supplied with: EX-332 13A mains lead and TL88 3 way fused leads</td>
</tr>
</tbody>
</table>

Classic Check Plug
Classic check plug is a fast and easy way to ensure that 13A sockets are wired correctly.
Part Number - CP501

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Main Supply: 200 - 250V (30-70Hz)</td>
</tr>
<tr>
<td>Power Consumption: &lt;1.2W</td>
</tr>
<tr>
<td>Temperature Range: -10°C to 40°C at 60%RH (max)</td>
</tr>
<tr>
<td>Earth Leakage: &lt;5mA</td>
</tr>
<tr>
<td>Dimensions: 65 x 65 x 47mm</td>
</tr>
<tr>
<td>Housing: Flame retardant ABS</td>
</tr>
</tbody>
</table>

Thermometer
Dual input digital thermometer with temperature difference capability. It is able to measure input / output temperatures through boilers, radiators etc. Hold and maximum buttons allow the current value to be frozen or the maximum reading to be stored.
Part Number - DT75

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Display: 3½ digit LCD</td>
</tr>
<tr>
<td>Measurement: -50°C to 1300°C or -58 to 2000°F</td>
</tr>
<tr>
<td>Resolution: 1°C or 1°F switchable to 0.1°C or 0.1°F</td>
</tr>
<tr>
<td>Input connector: Twin standard, miniature flat thermocouple connector inputs</td>
</tr>
<tr>
<td>Dimensions: 147 x 70 x 39mm</td>
</tr>
<tr>
<td>Weight: 215g</td>
</tr>
<tr>
<td>Includes: 2 K-type bead thermocouples, protective holster, battery and user manual.</td>
</tr>
</tbody>
</table>
Non Trip Earth Loop Impedance Indicator

No trip earth loop impedance indicator gives safe earth loop impedance checking within carefully selected bands without tripping the RCDs.

Part Number - **EZ150**

Like all other indicators this unit cannot detect common earth and neutral or earth neutral reverse.

**Specification**

<table>
<thead>
<tr>
<th>Nominal Supply: 230V 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth loop impedance span: 0to1.7Ω, 1.7to5Ω, 5-10Ω, 10to100Ω, 100to200Ω, 200to500Ω</td>
</tr>
<tr>
<td>Earth loop threshold accuracy: ±(10% + 0.3Ω)</td>
</tr>
<tr>
<td>Voltage low indication: &lt;185V</td>
</tr>
<tr>
<td>Voltage high indication: &lt;270V</td>
</tr>
<tr>
<td>Open earth indication &gt;500Ω</td>
</tr>
<tr>
<td>Dimensions: 65 x 65 x 50mm</td>
</tr>
<tr>
<td>Power Consumption: &lt;1.6W</td>
</tr>
<tr>
<td>Over voltage: Cat II / 300V</td>
</tr>
<tr>
<td>Pollution degree: 2</td>
</tr>
</tbody>
</table>

Professional Version of EZ150

Professional version of EX150 with IEC socket and interchangeable 3 pin adaptor and fused leads allowing for testing at light fittings, distribution boards and terminals.

Part Number - **EZ650**

**Specification**

As Above

Spec for TL88 leads: 3 wire, two probes with removable croc clips and 1 fixed crocodile clip, supplied with X (IEC) connector - 10A fused.

Non Trip Earth Loop Impedance Tester

Non trip earth loop impedance tester, carries out loop impedance checks from any 13A socket without using probes, operating switches or pressing buttons. Simply plug in.

Part Number - **EZ2100**

**Specification**

<table>
<thead>
<tr>
<th>Operation Voltage: 230V 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non trip Earth loop impedance range: 0.11to8.99Ω (0.01Ω res.), 9to89.9Ω (0.1Ω res.), 90to2kΩ (1Ω res.)</td>
</tr>
<tr>
<td>Earth loop accuracy: ±(3% + 0.1Ω + 2 digits)</td>
</tr>
<tr>
<td>Voltage indication: low &lt;195V, high &gt;270V</td>
</tr>
<tr>
<td>EN threshold: 30W</td>
</tr>
<tr>
<td>Weight: 230g</td>
</tr>
<tr>
<td>Open earth indication: 2k to 70k &gt;=2kΩ &gt;70k “open earth” (current less than 3.5mA)</td>
</tr>
<tr>
<td>Power Consumption: Typical 4.5mA, max 7mA, &lt;2VA</td>
</tr>
<tr>
<td>Over voltage: Cat II / 300V</td>
</tr>
<tr>
<td>Pollution degree: 2</td>
</tr>
<tr>
<td>Dimensions: 140 x 80 x 55mm</td>
</tr>
<tr>
<td>Supplied with: 13A plug top test lead and carry case. No batteries required.</td>
</tr>
</tbody>
</table>

Insulation Tester

Economy 16th edition tester. With automatic zero adjust feature to remove the resistance of the leads, fast accurate continuity testing at 200mA.

Part Number - **IN2001**

**Specification**

| Insulation: 10kΩ to 100MΩ at 500V |
| Continuity: 0to200Ω, 0.01Ω resolution (audible tone <1Ω) |
| Voltage range: 500V AC |
| Complies with: BS EN 61557 and 16th edition |
| Dimensions: 190 x 90 x 54mm |
| Includes: quality soft protective carry case, test lead, battery & user manual. |
### Insulation Tester

**Insulation and continuity tester** gives 250, 500 and 1000V tests. Automatic zero adjust feature to remove the resistance of the leads, the three test voltages enables the widest range of testing.

**Part Number - IN2003**

**Specification**

- **Insulation:** 10kΩ to 50MΩ at 250V, 10kΩ to 100MΩ at 500V, 10kΩ to 200MΩ at 1000V
- **Continuity:** 0 to 2000Ω, 0.01Ω resolution (audible tone <1Ω)
- **Voltage range:** 500V AC
- **Complies with:** BS EN 61557 and 16th edition
- **Dimensions:** 190 x 90 x 54mm
- **Includes:** quality soft protective carry case, test lead, battery & user manual.

---

### Insulation Tester

**With clear 4000 count, backlit digital display with analogue bargraph.**

Comes complete with test leads, auto zero, auto hold and battery condition indicator. Output test voltage automatically displayed during testing. 250, 500 and 1000V test, user setable limits with pass/fail indication.

**Part Number - IN2103**

**Specification**

- **Insulation:** 200kΩ to 2,000MΩ at 250, 500 or 1000V in 4 ranges, with automatic discharge
- **Continuity:** 0.01Ω to 40Ω, resistance at 200mA DC (buzz <1Ω)
- **Resistance:** 0.1Ω to 2,000 MΩ (buzz <1Ω)
- **Voltage range:** 600V AC/DC, warning for voltage presence.
- **Complies with:** BS EN 61557 and BS 7671:2001 (16th edition)
- **Over voltage:** 300V Category III
- **Dimensions:** 190 x 190 x 54mm
- **Includes:** batteries, test leads, instructions and carry case.

---

### RCD Tester

**For fast and easy to use testing of all common RCDs rated up to 500mA.**

**Part Number - RC2000**

**Specification**

- **RCD rating (IΔN):** 6mA, 10mA, 30mA, 100mA, 300mA and 500mA
- **Half trip setting (1/2xIΔN):** 3mA, 5mA, 15mA, 50mA, 150mA and 250mA
- **Fast trip setting:** 150mA (for IΔN=6, 10 and 30mA only)
- **Test polarity:** 0° and 180°
- **Timing range:** 0 - 1999mSec (resolution of 1mSec)
- **Timing accuracy:** ±2% of reading ±1 digit
- **Dimensions:** 190 x 90 x 54mm
- **Includes:** quality soft protective carry case, mains test lead & user manual.
Loop Tester
A fast accurate auto ranging 16th Edition earth loop impedance tester. It can carry out phase earth and phase neutral testing and it automatically displays prospective short circuit current readings.
Part Number - LP2000

General Purpose Multimeter
11 functions including 10amp range, basic accuracy of 0.8% suitable for most applications. The meter has ceramic fuse protection and a wrong connection bleep to prevent misuse. It has audible continuity check and also measures capacitance and frequency
Part Number - MM44

Electricians Multimeter
Electrician multimeter with phase rotation and temperature measurement. Designed to meet the needs of the professional electrician by including audible continuity, phase rotation, frequency and temperature as well as the basic electrical functions.
Part Number - MM47
**Fuse Finder**

The Elite professional fuse finder brings microprocessor controlled multi level sensitivity to fuse and breaker identification. Capable of operating from either 13A plug top lead for sockets or TL83 lead for light fittings or other points in a circuit.

Part Number - **FD650**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transmitter</strong></td>
<td><strong>Trace depth for fuse assignment:</strong> Approx. 0 - 10cm, depending on local conditions</td>
</tr>
<tr>
<td>Voltage range: 230V</td>
<td><strong>Dimensions:</strong> 202 x 32 x 22mm</td>
</tr>
<tr>
<td>Frequency range: 50 - 60Hz</td>
<td><strong>Weight:</strong> 150g (excl. battery)</td>
</tr>
<tr>
<td>Switching frequency: Approx. 5Hz</td>
<td><strong>Protection class:</strong> IP20</td>
</tr>
<tr>
<td>Transmission pulse width: Approx. 1.7µS</td>
<td><strong>Power supply:</strong> 9V battery; MN1604/P93, IEC 6L6A61 (alkaline only) - not included.</td>
</tr>
<tr>
<td>Transmission pulse amplitude: 20A max</td>
<td>Units are EMC compliant</td>
</tr>
<tr>
<td>Dimensions: Approx 65 x 65 x 46mm</td>
<td><strong>Earth leakage:</strong> Nil</td>
</tr>
<tr>
<td>Weight: 65g</td>
<td><strong>Power supply:</strong> From mains</td>
</tr>
<tr>
<td><strong>Receiver</strong></td>
<td><strong>Overvoltage:</strong> Cat III / 300V</td>
</tr>
<tr>
<td><strong>Trace depth for fuse assignment:</strong> Approx. 0 - 10cm, depending on local conditions</td>
<td><strong>Pollution degree:</strong> 2</td>
</tr>
<tr>
<td><strong>Dimensions:</strong> 202 x 32 x 22mm</td>
<td><strong>Protection class:</strong> IP20</td>
</tr>
<tr>
<td><strong>Weight:</strong> 150g (excl. battery)</td>
<td><strong>Power supply:</strong> 9V battery; MN1604/P93, IEC 6L6A61 (alkaline only) - not included.</td>
</tr>
</tbody>
</table>

**10000A AC Clamp Meter**

For general purpose use with large jaw size, voltage and resistance ranges. The ideal basic clamp for AC current use with the functions of a standard multimeter.

Part Number - **CM54**

<table>
<thead>
<tr>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3½ digit LCD display with large 21mm digits</strong></td>
</tr>
<tr>
<td>AC V: 1V to 750V (50Hz to 500Hz)</td>
</tr>
<tr>
<td>AC A: 100mA to 1000A (2 ranges) (50 / 60Hz)</td>
</tr>
<tr>
<td>DC V: 1V to 1000V</td>
</tr>
<tr>
<td>Ohms: 100mΩ to 2000MΩ (4 ranges)</td>
</tr>
<tr>
<td>Continuity: Buzz at &lt;75Ω</td>
</tr>
<tr>
<td>Max conductor: 57mmø or 70 x 18mm bar</td>
</tr>
<tr>
<td><strong>Dimensions:</strong> 277 x 102 x 49mm</td>
</tr>
<tr>
<td><strong>Weight:</strong> 540g</td>
</tr>
<tr>
<td>Includes: test leads, soft carry case and user manual.</td>
</tr>
</tbody>
</table>
**Catu Isomil Insulated Tools**

A complete range of insulated tools for live working up to 1000V according to IEC 60900 standard. Individually tested to 10,000 volts.

*Imperial sizes of sockets and spanners also available.*

**Flat Bladed Screwdrivers**

*Chrome-molybdenum vanadium steel blade.*

- Part Number - **MO-65203**  - Blade 3x100mm
- Part Number - **MO-65204**  - Blade 3.5x100mm
- Part Number - **MO-65205**  - Blade 4x100mm
- Part Number - **MO-65206**  - Blade 5.5x125mm
- Part Number - **MO-65207**  - Blade 6.5x150mm
- Part Number - **MO-65209**  - Blade 8x175mm
- Part Number - **MO-65211**  - Blade 10x200mm

**PoziDriv Screwdrivers**

*Chrome-molybdenum vanadium steel blade.*

- Part Number - **MO-65240**  - No.O Head 3x60mm
- Part Number - **MO-65242**  - No.1 Head 4.5x80mm
- Part Number - **MO-65244**  - No.2 Head 6x100mm
- Part Number - **MO-65246**  - No.3 Head 8x150mm
- Part Number - **MO-65248**  - No.4 Head 10x200mm

**Phillips Screwdrivers**

*Chrome-molybdenum vanadium steel blade.*

- Part Number - **MO-65230**  - No.O Head 3x60mm
- Part Number - **MO-65232**  - No.1 Head 4.5x80mm
- Part Number - **MO-65234**  - No.2 Head 6x100mm
- Part Number - **MO-65266**  - No.3 Head 8x150mm

*The full range of CATU Electrical Safety Equipment is also available. Contact our sales office for information.*
Universal Pliers
Special tool steel, oil hardened, burnished head.
Part Number - MO-66001 - Overall Length 160mm
Part Number - MO-66002 - Overall Length 180mm
Part Number - MO-66003 - Overall Length 200mm
Part Number - MO-66005 - Overall Length 250mm

Flat Nosed Pliers
Special tool steel, oil hardened, burnished head.
Part Number - MO-66300 - Overall Length 145mm
Part Number - MO-66302 - Overall Length 160mm

Round Nosed Pliers
Special tool steel, oil hardened, burnished head.
Part Number - MO-66202 - Overall Length 160mm

Bent Snipe Nosed Pliers
Chrome-vanadium steel, burnished head.
Part Number - MO-66402 - Overall Length 160mm
Part Number - MO-66404 - Overall Length 200mm

Long Nosed Pliers with Side Cutter
Special tool steel, oil hardened, burnished head.
Part Number - MO-66102 - Overall Length 160mm

Water Pump Pliers
Chrome-vanadium steel, burnished head.
Standard
Part Number - MO-66502 - Overall Length 250mm
Box Joint
Part Number - MO-66505 - Overall Length 250mm
### Side Cutters
Special carbon steel, oil hardened, burnished head.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overall Length</th>
<th>Cutting Capacity (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-67101</td>
<td>140mm</td>
<td>Diam 2 Diam 1</td>
</tr>
<tr>
<td>MO-67102</td>
<td>160mm</td>
<td>Diam 2.5 Diam 1.5</td>
</tr>
<tr>
<td>MO-67103</td>
<td>180mm</td>
<td>Diam 3 Diam 2.5</td>
</tr>
</tbody>
</table>

### End Cutters
Special carbon steel, oil hardened, burnished head.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overall Length</th>
<th>Cutting Capacity (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-67401</td>
<td>140mm</td>
<td>Diam 2 Diam 1</td>
</tr>
<tr>
<td>MO-67402</td>
<td>160mm</td>
<td>Diam 3 Diam 2</td>
</tr>
<tr>
<td>MO-67404</td>
<td>180mm</td>
<td>Diam 4 Diam 3</td>
</tr>
</tbody>
</table>

### Cable Cutters
Chrome-vanadium forged steel, oil hardened.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overall Length</th>
<th>Cutting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-67500</td>
<td>170mm</td>
<td>4mm Diam</td>
</tr>
<tr>
<td>MO-67501</td>
<td>170mm</td>
<td>15mm Diam</td>
</tr>
<tr>
<td>MO-67502</td>
<td>230mm</td>
<td>20mm Diam</td>
</tr>
</tbody>
</table>

### Ratchet Cable Cutters
Copper and aluminium cable only. Treated forge steel blade.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cutting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-67599</td>
<td>32mm² / 180mm² CU / 250mm² Alum</td>
</tr>
<tr>
<td>MO-67600</td>
<td>38mm² / 240mm² CU / 300mm² Alum</td>
</tr>
<tr>
<td>MO-67601</td>
<td>55mm² / 300mm² CU / 450mm² Alum</td>
</tr>
<tr>
<td>MO-67611</td>
<td>24mm² / 150mm² CU / 180mm² Alum</td>
</tr>
</tbody>
</table>

### Hacksaw
Protected hard forge steel. two blade positions, flush and 90° cutting options. Supplied with 2 blades.

Part Number - MO-64502 - Overall Length 450mm
Adjustable Spanner
Special tooled steel, oil hardened.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overall Length</th>
<th>Maximum Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-69002</td>
<td>210mm</td>
<td>24mm</td>
</tr>
<tr>
<td>MO-69003</td>
<td>250mm</td>
<td>28mm</td>
</tr>
<tr>
<td>MO-69004</td>
<td>310mm</td>
<td>34mm</td>
</tr>
<tr>
<td>MO-69005</td>
<td>385mm</td>
<td>43mm</td>
</tr>
</tbody>
</table>

Reversible Hexagonal Ratchet Spanner
Special tool steel, oil hardened.

Part Number - MO-69210 - Size 10mm
Part Number - MO-69213 - Size 13mm
Part Number - MO-69216 - Size 16mm
Part Number - MO-69217 - Size 17mm
Part Number - MO-69218 - Size 18mm
Part Number - MO-69219 - Size 19mm

Combination Wrench
Special steel sockets.

Part Number - MO-68702
4 Hexagonal Sockets 8 / 10 / 12 / 14mm
Part Number - MO-68703
4 Hexagonal Sockets 7 / 9 / 11 / 13mm
Part Number - MO-68704
4 Hexagonal Sockets 8 / 10 / 13 / 17mm

Right Angle Hexagonal Key Wrench
Chrome vanadium steel.

Part Number - MO-69903
Hexagonal Head - 3mm / 83x123mm
Part Number - MO-69904
Hexagonal Head - 4mm / 84x124mm
Part Number - MO-69905
Hexagonal Head - 5mm / 84x126mm
Part Number - MO-69906
Hexagonal Head - 6mm / 85x126mm
Part Number - MO-69908
Hexagonal Head - 8mm / 87x128mm
Part Number - MO-69910
Hexagonal Head - 10mm / 87x130mm
Part Number - MO-69912
Hexagonal Head - 12mm / 90x132mm
### Open Ended Spanners
*Chrome vanadium steel.*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-68008</td>
<td>8mm</td>
</tr>
<tr>
<td>MO-68009</td>
<td>9mm</td>
</tr>
<tr>
<td>MO-68010</td>
<td>10mm</td>
</tr>
<tr>
<td>MO-68011</td>
<td>11mm</td>
</tr>
<tr>
<td>MO-68012</td>
<td>12mm</td>
</tr>
<tr>
<td>MO-68013</td>
<td>13mm</td>
</tr>
<tr>
<td>MO-68014</td>
<td>14mm</td>
</tr>
<tr>
<td>MO-68015</td>
<td>15mm</td>
</tr>
<tr>
<td>MO-68016</td>
<td>16mm</td>
</tr>
<tr>
<td>MO-68017</td>
<td>17mm</td>
</tr>
<tr>
<td>MO-68018</td>
<td>18mm</td>
</tr>
<tr>
<td>MO-68019</td>
<td>19mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-68020</td>
<td>20mm</td>
</tr>
<tr>
<td>MO-68021</td>
<td>21mm</td>
</tr>
<tr>
<td>MO-68022</td>
<td>22mm</td>
</tr>
<tr>
<td>MO-68023</td>
<td>23mm</td>
</tr>
<tr>
<td>MO-68024</td>
<td>24mm</td>
</tr>
<tr>
<td>MO-68025</td>
<td>25mm</td>
</tr>
<tr>
<td>MO-68026</td>
<td>26mm</td>
</tr>
<tr>
<td>MO-68027</td>
<td>27mm</td>
</tr>
<tr>
<td>MO-68028</td>
<td>28mm</td>
</tr>
<tr>
<td>MO-68029</td>
<td>29mm</td>
</tr>
<tr>
<td>MO-68030</td>
<td>30mm</td>
</tr>
<tr>
<td>MO-68032</td>
<td>32mm</td>
</tr>
</tbody>
</table>

### Cranked Ring Spanners
*Chrome vanadium steel.*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-68107</td>
<td>7mm</td>
</tr>
<tr>
<td>MO-68108</td>
<td>8mm</td>
</tr>
<tr>
<td>MO-68109</td>
<td>9mm</td>
</tr>
<tr>
<td>MO-68110</td>
<td>10mm</td>
</tr>
<tr>
<td>MO-68111</td>
<td>11mm</td>
</tr>
<tr>
<td>MO-68112</td>
<td>12mm</td>
</tr>
<tr>
<td>MO-68113</td>
<td>13mm</td>
</tr>
<tr>
<td>MO-68114</td>
<td>14mm</td>
</tr>
<tr>
<td>MO-68115</td>
<td>15mm</td>
</tr>
<tr>
<td>MO-68116</td>
<td>16mm</td>
</tr>
<tr>
<td>MO-68117</td>
<td>17mm</td>
</tr>
<tr>
<td>MO-68118</td>
<td>18mm</td>
</tr>
<tr>
<td>MO-68119</td>
<td>19mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-68120</td>
<td>20mm</td>
</tr>
<tr>
<td>MO-68121</td>
<td>21mm</td>
</tr>
<tr>
<td>MO-68122</td>
<td>22mm</td>
</tr>
<tr>
<td>MO-68123</td>
<td>23mm</td>
</tr>
<tr>
<td>MO-68124</td>
<td>24mm</td>
</tr>
<tr>
<td>MO-68125</td>
<td>25mm</td>
</tr>
<tr>
<td>MO-68126</td>
<td>26mm</td>
</tr>
<tr>
<td>MO-68127</td>
<td>27mm</td>
</tr>
<tr>
<td>MO-68128</td>
<td>28mm</td>
</tr>
<tr>
<td>MO-68129</td>
<td>29mm</td>
</tr>
<tr>
<td>MO-68130</td>
<td>30mm</td>
</tr>
<tr>
<td>MO-68132</td>
<td>32mm</td>
</tr>
</tbody>
</table>

### Hexagonal Spanners with T Handle
*Chrome steel. Length 139mm.*

- **Part Number - MO-68610 - Size 10mm**
- **Part Number - MO-68613 - Size 13mm**
- **Part Number - MO-68614 - Size 14mm**

*Imperial sizes available. Contact our sales office for information.*
### Socket Wrenches

Chrome steel.

#### 1/8" Drive

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-69306</td>
<td>6mm</td>
</tr>
<tr>
<td>MO-69307</td>
<td>7mm</td>
</tr>
<tr>
<td>MO-69308</td>
<td>8mm</td>
</tr>
<tr>
<td>MO-69309</td>
<td>9mm</td>
</tr>
<tr>
<td>MO-69310</td>
<td>10mm</td>
</tr>
<tr>
<td>MO-69311</td>
<td>11mm</td>
</tr>
<tr>
<td>MO-69312</td>
<td>12mm</td>
</tr>
<tr>
<td>MO-69313</td>
<td>13mm</td>
</tr>
<tr>
<td>MO-69314</td>
<td>14mm</td>
</tr>
<tr>
<td>MO-69315</td>
<td>15mm</td>
</tr>
<tr>
<td>MO-69316</td>
<td>16mm</td>
</tr>
<tr>
<td>MO-69317</td>
<td>17mm</td>
</tr>
<tr>
<td>MO-69318</td>
<td>18mm</td>
</tr>
<tr>
<td>MO-69319</td>
<td>19mm</td>
</tr>
<tr>
<td>MO-69321</td>
<td>21mm</td>
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#### 1/2" Drive

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### Socket Tools

#### 1/8" Drive

- Part Number - MO-69513 - Reversible Ratchet
- Part Number - MO-69523 - Extension Bar 130mm
- Part Number - MO-69533 - Extension Bar 250mm
- Part Number - MO-69542 - T-Wrench 130mm
- Part Number - MO-69543 - T-Wrench 200mm

#### 1/2" Drive

- Part Number - MO-69514 - Reversible Ratchet
- Part Number - MO-69524 - Extension Bar 125mm
- Part Number - MO-69534 - Extension Bar 250mm
- Part Number - MO-69544 - T-Wrench 300mm

### Socket Sets

- Part Number - MO-69308/23 - 1/8" Socket Set
- Part Number - MO-69408/23 - 1/2" Socket Set

Socket sets comprise items marked *. Supplied in plastic box 410 x 120 x 75mm.
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