ITL

INSULATED TOOLS FOR LIVE LINE WORKING

MADE IN GREAT BRITAIN

ITL

The *ULTIMATE* in electrical and live line protection

ITL has over half a century's worth of experience producing insulated tools to the highest standard possible.

We manufacture unique, injection moulded, insulated tools from Nylon Thermoplastic. All our tools are 100% tested to IEC 60900, Category C and ASTM F1505.

All over the world the professional uses ITL Insulated Tools:

- We are the only company to insulate its tools with a unique injection moulded Nylon Thermoplastic recipe
- Tool and insulation bond as one
- Withstand extreme impact and abrasion
- Flame Retardant
- Stronger and harder than PVC coated tools
- 100% Production Tested –10,000 volts for 3 minutes submerged in water
- Accredited to IEC 60900:2018 – the International Standard for Live Line Working Tools
- Category "C" Impact Tested – for operation within greater temperature range **-40ºF to +158ºF -40ºC to +70ºC**
- Lifetime warranty on tool and insulation

CONTENTS

5 TOOL KITS

12 TORQUE

15 RATCHETS & SOCKETS

21 PLIERS

23 CUTTERS

25 SPANNERS

29 DRIVERS

31 HEX KEYS

32 LINK EXTRACTORS

33 SPECIALIST

35 ACCESSORIES

36 GLOVES

THE FACTS SPEAK FOR THEMSELVES

FACT

ITL is the only manufacturer to insulate its tools with Nylon Thermoplastic

FACT

Unique Nylon Thermoplastic injection moulding process

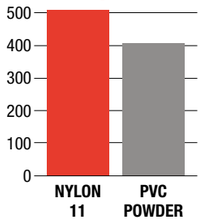
Increases tool safety and durability

FACT

Tool and insulation bond as one

Higher tool to insulation integrity

PROCESSING TEMPERATURE
Average - ºF

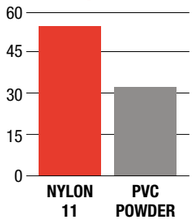


FACT

Much stronger than PVC coated product

Longer tool life and increased cost effectiveness

TENSILE STRENGTH
Average - MPa

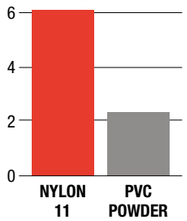


FACT

Harder than PVC dipped product

Tougher tools that withstand extreme field requirements

IZOD IMPACT
Average - J/cm



FACT

Lifetime Warranty on tool and insulation

LIFETIME WARRANTY
TOOL & INSULATION

FACT

All ITL tools are accredited to International Standard **IEC 60900:2018 including category 'C"** for operation within greater temperature range **-40º to +158ºF**

TOOL KITS

To complement our comprehensive standard range, we can offer a totally customisable service. Choose your own selection of tools presented in our orange case, 8 or 12 pocket tool roll, tube or pouch. In addition, order a specified minimum quantity and we can supply blow moulded cases complete with custom made foam inserts.

Contact customer service for more details

BESPOKE SERVICE AVAILABLE

CONTACT CUSTOMER SERVICE FOR MORE DETAILS:
Email: **enquires@insulatedtools.co.uk**
Tel: **01342 324255**

The ITL team are inspired by the great British scientists of the past who made the electrical discoveries that our business relies on every day.

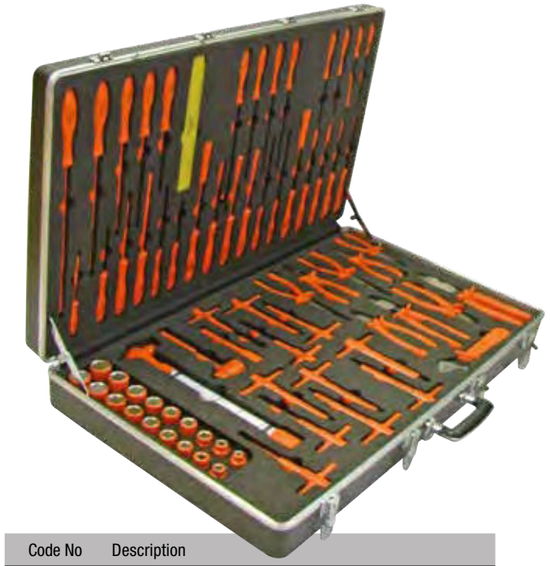
We have named our flagship kits in their honour.

KELVIN

Born William Thompson, the 1st Baron Lord Kelvin was the most famous electrical scientist of his day. Before his achievements in the field of physics, Kelvin made his fortune as a telegraph engineer, and soon became a household name in Victorian Britain. A patron of the sciences and President of the Royal Society, Queen Victoria knighted him in 1866, and his fame lives on in the temperature scale that bears his name.

Code No	Description
00002	**20 PIECE KELVIN KIT**
00021	**8" Combination Pliers**
00051	**6" Snipe Nose Pliers**
00101	**6" Diagonal Cutting Pliers**
00120	**8" Cable Cutter**
00141	**10" Groove Joint Pliers**
00300	**13mm Spanner**
00340	**17mm Spanner**
00360	**19mm Spanner**
00410	**24mm Spanner**
01080	**13mm Offset Ring Spanner**
01090	**17mm Offset Ring Spanner**
01100	**19mm Offset Ring Spanner**
03000	**8" Adjustable Spanner**
01830	**Coring Knife**
01860	**Terminal Screwdriver 75mm x 3mm x 0.5mm**
01890	**Flat Screwdriver 150mm x 5mm x 1mm**
01920	**Flat Screwdriver 150mm x 6.5mm x 1.2mm**
01980	**Pozidriv Screwdriver 75mm x 5mm x No.1**
01990	**Pozidriv Screwdriver 100mm x 6mm x No.2**

Code No	Description
00008	**12 PIECE KIT**
00045	**9.5" Linesman Pliers**
00061	**8" Snipe Nose Pliers**
00115	**7.5" High Leverage Diagonal Cutting Pliers**
00125	**9" Cable Cutter**
00141	**10" Groove Joint Pliers**
01830	**Coring Knife**
01930	**Flat Screwdriver 100mm x 6.5mm x 1.2mm**
01940	**Flat Screwdriver 150mm x 8mm x 1.2mm**
01970	**Flat Screwdriver 254mm x 10mm x 1.6mm**
02010	**Phillips Screwdriver 75mm x 5mm x No.1**
02020	**Phillips Screwdriver 100mm x 6mm x No.2**
02030	**Phillips Screwdriver 150mm x 8mm x No.3**



MAXWELL

James Clerk Maxwell was perhaps the most important physicist you may not have heard of. Certainly the greatest Scottish scientist of all time, he is credited with discovering that light, electricity and magnetism are all aspects of the same phenomenon.

Code No	Description
00018	**75 PIECE MAXWELL KIT**
00045	**9.5" Linesman Pliers**
00051	**6" Snipe Nose Pliers**
00061	**8" Snipe Nose Pliers**
00081	**8" Bent Nose Pliers**
00091	**6" Flat Nose Pliers**
00101	**6" Diagonal Cutting Pliers**
00120	**8" Cable Cutter**
00151	**12"Groove Joint Pliers**
00170	**6" Wire Stripping Pliers**
01830	**Coring Knife**
03000	**8" Adjustable Spanner**
08510	**1m Folding Rule**
01716	**8mm Socket 3/8" Drive**
01718	**10mm Socket 3/8" Drive**
01720	**13mm Socket 3/8" Drive**
01721	**14mm Socket 3/8" Drive**
01722	**15mm Socket 3/8" Drive**
01730	**17mm Socket 3/8" Drive**
01740	**19mm Socket 3/8" Drive**
01741	**20mm Socket 3/8" Drive**
01742	**22mm Socket 3/8" Drive**
01723	**3/8" Socket 3/8" Drive**
01724	**7/16" Socket 3/8" Drive**
01725	**1/2" Socket 3/8" Drive**
01726	**9/16" Socket 3/8" Drive**
01727	**5/8" Socket 3/8" Drive**
01731	**11/16" Socket 3/8" Drive**
01739	**3/4" Socket 3/8" Drive**
01743	**13/16" Socket 3/8" Drive**
01744	**7/8" Socket 3/8" Drive**
01780	**Reversible Ratchet 3/8" Drive**
01785	**Torque Wrench 3/8" Drive**
01791	**5" Extension 3/8" Drive**

Code No	Description
01860	**Terminal Screwdriver 75mm x 3mm x 0.5mm**
01870	**Terminal Screwdriver 100mm x 3mm x 0.5mm**
01875	**Flat Screwdriver 75mm x 4mm x 0.8mm**
01880	**Flat Screwdriver 75mm x 5mm x 1mm**
01890	**Flat Screwdriver 150mm x 5mm x 1mm**
01910	**Flat Screwdriver 203mm x 5mm x 1mm**
01915	**Flat Screwdriver 125mm x 6.5mm x 1.2mm**
01920	**Flat Screwdriver 150mm x 6.5mm x 1.2mm**
01930	**Flat Screwdriver 100mm x 6.5mm x 1.2mm**
01940	**Flat Screwdriver 150mm x 8mm x 1.2mm**
01960	**Flat Screwdriver 203mm x 10mm x 1.6mm**
01970	**Flat Screwdriver 254mm x 10mm x 1.6mm**
02005	**Phillips Screwdriver 75mm x 3mm x No.0**
02010	**Phillips Screwdriver 75mm x 5mm x No.1**
02020	**Phillips Screwdriver 100mm x 6mm x No.2**
02024	**Robertson Screwdriver No.1**
02026	**Robertson Screwdriver No.2**
02030	**Phillips Screwdriver 150mm x 8mm x No.3**
02280	**8mm Nut Spinner**
02290	**10mm Nut Spinner**
02300	**8BA/4mm Nut Spinner**
02310	**6BA/5mm Nut Spinner 25mm Stud Clearance**
02315	**1/4" Nut Spinner**
02320	**6mm Nut Spinner 25mm Stud Clearance**
02331	**5/16" Nut Spinner**
02332	**11/32" Nut Spinner**
02333	**3/8" Nut Spinner**
02334	**7/16" Nut Spinner**
02341	**13mm Nut Spinner**
02670	**3mm T Handle Hex Driver**
02680	**4mm - 5/32" T Handle Hex Driver**
02690	**5mm T Handle Hex Driver**
02700	**6mm T Handle Hex Driver**
02710	**1/8" T Handle Hex Driver**
02730	**3/16" T Handle Hex Driver**
02731	**7/32" T Handle Hex Driver**
02740	**1/4" T Handle Hex Driver**
02742	**5/16" T Handle Hex Driver**
02743	**3/8" T Handle Hex Driver**
02745	**1/2" T Handle Hex Driver**

1/2” DRIVE SOCKET SETS

FARADAY

Everything we do at ITL has only been made possible by this brilliant pioneer’s work. Regularly named as one of the top 10 scientists who ever lived, the influence of Michael Faraday continues to be felt to this day – even down to having the honour of our naming our flagship toolkit after him.

FRANKLIN

The all-round American Renaissance Man, Ben Franklin was one of the great scientific geniuses of the 18th century. He allegedly investigated lightning by flying a kite into a storm cloud. Who better then to lend his name to the imperial version of our popular 29 piece Toolkit – a true all-rounder with almost everything an electrical technician needs.

Code No	Description
00007	**29 PIECE FARADAY KIT - METRIC**
00021	**8” Combination Pliers**
00061	**8” Snipe Nose Pliers**
00101	**6” Diagonal Cutting Pliers**
01830	**Coring Knife**
00280	**10mm Spanner**
00290	**11mm Spanner**
00295	**12mm Spanner**
00300	**13mm Spanner**
00310	**14mm Spanner**
00340	**17mm Spanner**
00360	**19mm Spanner**
01750	**Reversible Ratchet 1/2” Drive**
01350	**10mm Socket 1/2” Drive**
01360	**11mm Socket 1/2” Drive**
01370	**12mm Socket 1/2” Drive**
01380	**13mm Socket 1/2” Drive**
01390	**14mm Socket 1/2” Drive**
01420	**17mm Socket 1/2” Drive**
01440	**19mm Socket 1/2” Drive**
01760	**5” Extension 1/2” Drive**
01770	**10”Extension 1/2” Drive**
02763	**5mm Hex Socket 1/2” Drive**
02764	**6mm Hex Socket 1/2” Drive**
01860	**Terminal Screwdriver 75mm x 3mm x 0.5mm** ⊖
01875	**Flat Screwdriver 75mm x 4mm x 0.8mm** ⊖
01890	**Flat Screwdriver 150mm x 5mm x 1mm** ⊖
01940	**Flat Screwdriver 150mm x 8mm x 1.2mm** ⊖
02010	**Phillips Screwdriver 75mm x 5mm x No.1** ⊕
02020	**Phillips Screwdriver 100mm x 6mm x No.2** ⊕

Code No	Description
00029	**29 PIECE FRANKLIN KIT - IMPERIAL**
00021	**8” Combination Pliers**
00061	**8” Snipe Nose Pliers**
00101	**6” Diagonal Cutting Pliers**
01830	**Coring Knife**
00430	**3/8” Spanner**
00440	**7/16” Spanner**
00441	**1/2” Spanner**
00450	**9/16” Spanner**
00455	**5/8” Spanner**
00460	**11/16” Spanner**
00470	**3/4” Spanner**
01750	**Reversible Ratchet 1/2” Drive**
01570	**3/8” Socket 1/2” Drive**
01580	**7/16” Socket 1/2” Drive**
01590	**1/2” Socket 1/2” Drive**
01600	**9/16” Socket 1/2” Drive**
01610	**5/8” Socket 1/2” Drive**
01620	**11/16” Socket 1/2” Drive**
01630	**3/4” Socket 1/2” Drive**
01760	**5” Extension 1/2” Drive**
01770	**10” Extension 1/2” Drive**
02771	**3/16” Hex Socket 1/2” Drive**
02772	**1/4” Hex Socket 1/2” Drive**
01860	**Terminal Screwdriver 75mm x 3mm x 0.5mm** ⊖
01875	**Flat Screwdriver 75mm x 4mm x 0.8mm** ⊖
01890	**Flat Screwdriver 150mm x 5mm x 1mm** ⊖
01940	**Flat Screwdriver 150mm x 8mm x 1.2mm** ⊖
02010	**Phillips Screwdriver 75mm x 5mm x No.1** ⊕
02020	**Phillips Screwdriver 100mm x 6mm x No.2** ⊕

HEAVISIDE

We like our hard-working eccentrics here at ITL, and Oliver Heaviside was one of the best. A “first-rate oddity” according to one of his friends, Heaviside was a self-taught electrical engineer and physicist who reformulated Maxwell’s equations and applied them to solve practical problems with electricity transmission and telegraphs deep underground. His reputation was boosted when he was congratulated by Lord Kelvin.

Code No	Description
00023	**12 PIECE HEAVISIDE KIT**
01591	**1/2” Deep Socket**
01601	**9/16” Deep Socket**
01611	**5/8” Deep Socket**
01621	**11/16” Deep Socket**
01631	**3/4” Deep Socket**
01641	**13/16” Deep Socket**
01651	**7/8” Deep Socket**
01661	**15/16” Deep Socket**
01671	**1” Deep Socket**
01750	**Reversible Ratchet**
01760	**5” Extension**
01770	**10” Extension**

Code No	Description
03095	**19 PIECE SOCKET SET**
01330	**8mm Socket**
01350	**10mm Socket**
01380	**13mm Socket**
01420	**17mm Socket**
01440	**19mm Socket**
01450	**20mm Socket**
01470	**22mm Socket**
01500	**25mm Socket**
01570	**3/8” Socket**
01580	**7/16” Socket**
01590	**1/2” Socket**
01600	**9/16” Socket**
01620	**11/16” Socket**
01650	**7/8” Socket**
01660	**15/16” Socket**
01670	**1” Socket**
01750	**Reversible Ratchet**
01760	**5” Extension**
01770	**10” Extension**

Code No	Description
03100	**12 PIECE SOCKET SET**
01330	**8mm Socket**
01350	**10mm Socket**
01380	**13mm Socket**
01420	**17mm Socket**
01440	**19mm Socket**
01450	**20mm Socket**
01570	**3/8” Socket**
01590	**1/2”Socket**
01630	**3/4” Socket**
01650	**7/8”Socket**
01750	**Reversible Ratchet**
01760	**5” Extension**

3/8” DRIVE SOCKET SET

Code No	Description
03105	**12 PIECE SOCKET SET**
01716	**8mm Socket**
01718	**10mm Socket**
01720	**13mm Socket**
01730	**17mm Socket**
01740	**19mm Socket**
01741	**20mm Socket**
01723	**3/8” Socket**
01725	**1/2” Socket**
01739	**3/4” Socket**
01744	**7/8” Socket**
01780	**Reversible Ratchet**
01791	**5” Extension**

1/4” DRIVE SOCKET SETS

Daniell

John Frederic Daniell invented the Daniell Cell, one of the forerunners of the modern battery. His cell was so revolutionary that its output was used to benchmark what the value of 1 volt would be – so when we test our tools at 10,000v, the equivalent of 10,000 Daniell Cells! We are proud to name our premier battery maintenance kit after him.

Code No	Description
00022	**DANIELL 8 PIECE BATTERY SET**
01060	**8mm Offset Ring Spanner**
01070	**10mm Offset Ring Spanner**
01080	**13mm Offset Ring Spanner**
01775	**Reversible Ratchet**
07208	**8mm Socket**
07212	**10mm Socket**
07218	**13mm Socket**
07350	**Bit Adapter and Bits**

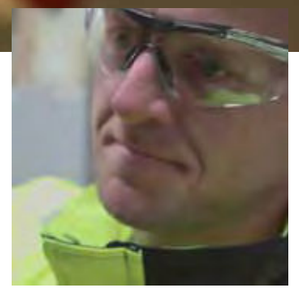
Code No	Description
03097	**24 PIECE SOCKET & BIT SET**
01775	**Reversible Ratchet**
01778	**6” Extension**
07200	**4mm Socket**
07203	**5.5mm Socket**
07204	**6mm Socket**
07206	**7mm Socket**
07208	**8mm Socket**
07210	**9mm Socket**
07212	**10mm Socket**
07214	**11mm Socket**
07218	**13mm Socket**
07220	**14mm Socket**
07350	**Bit Adaptor and Bits**

INNOVATION

Along with our core range which has been selling since the 1960s, every year we launch our new products from our portfolio of ideas and collaborations, ensuring the market has a solution for any job.

We unleash our innovation potential by working with the best in the industry as well as our own impressive design engineers who constantly strive to improve on what we or others create.

For nearly 60 years our partners and customers have placed the maximum demands on our products with regards to material, design, manufacturing, precision, strength and durability. With this we continue to define ourselves as the company who makes the best, safest and most robust insulated hand tools globally allowing people all over the world to work safely and productively.

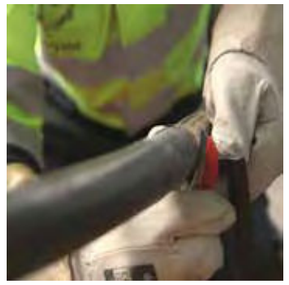


LINK BOXES

Link boxes, also known as low voltage network boxes, are the linchpins of the electrical distribution network.

As our demand for electricity increases, DNO’s are under increasing pressure to keep power outages to a minimum and maintain a reputation for reliable supply. They use link boxes as switching points, allowing electricity to be rerouted in the event of a cable fault. This ability to electrify and de-electrify parts of the distribution network is essential.

At ITL we have been at the forefront of coming up with bespoke solutions for link box maintenance. Many link boxes in urban areas date from the early 20th Century and have features that present challenges to engineers, such as difficult to access links, obscure gauge sizes (eg. ½” Whitworth) and archaic link housing. We have developed solutions for all these and more.

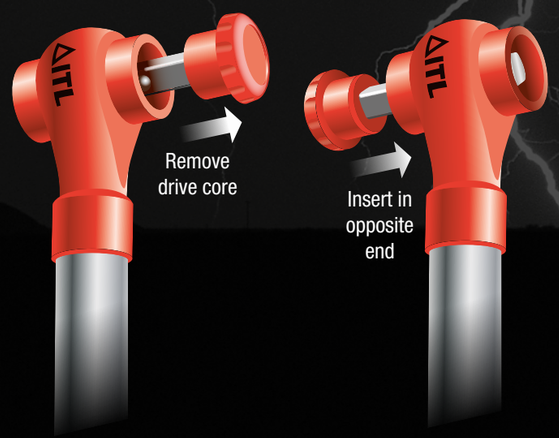


TORQUE TOOLS

Innovative, fully tested and certified range of insulated torque tools, ensure correct tightening of live connectors. Designed to help address the problem of exploding manholes. Includes test certificate.

Twist and push to set to correct output

To reverse ratchet direction



1/2" SQUARE DRIVE	
Code No.	Description
01745	**Torque Wrench**
3/8" SQUARE DRIVE	
01785	**Torque Wrench**
01711	**Short Torque Wrench (5-25Nm)**
01746	**Short Torque Wrench (Preset 8Nm)**
01747	**Short Torque Wrench (Preset 11Nm)**
01748	**Short Torque Wrench (Preset 12Nm)**
SPECIAL	
04204	**1/2" Whitworth Spanner Torque Wrench**

TORQUE SETS

Code No	Description
00013	**7 PIECE METRIC 1/2" DRIVE**
01381	**13mm Deep Socket**
01411	**16mm Deep Socket**
01421	**17mm Deep Socket**
01425	**18mm Deep Socket**
01491	**24mm Deep Socket**
01495	**28mm Deep Socket**
01745	**Torque Wrench**

Code No	Description
00025	**7 PIECE IMPERIAL 1/2" DRIVE**
01571	**3/8" Deep Socket**
01581	**7/16" Deep Socket**
01591	**1/2" Deep Socket**
01611	**5/8" Deep Socket**
01631	**3/4" Deep Socket**
01671	**1" Deep Socket**
01745	**Torque Wrench**

Thompson

James Thompson may be less famous than his younger brother William who became Lord Kelvin, but he is the man to thank for introducing the word "torque" into the English language. It's because of him that this kit contains the best insulated torque wrench in the industry. This 3/8" kit is part of our suite of specialist torque tools, and is ideal for working on link boxes and other enclosed junction boxes.

Code No	Description
04203	**THOMPSON KIT 5 PIECE METRIC 3/8" DRIVE**
01746	**Short Torque Wrench (Preset 8Nm)**
01791	**5" Extension**
01792	**10" Extension**
02036	**10mm Slotted Socket**
02037	**12mm Slotted Socket**

Cooke

After getting advice from Michael Faraday, William Fothergill Cooke joined with Charles Wheatstone to demonstrate the world's first electric telegraph line. They ran it from Euston Station to Camden Town in front of a crowd of interested onlookers. After securing a patent from the King they formed the Electric Telegraph Company – which later become British Telecom. This special kit has been developed in collaboration with BT, and continues their heritage for high quality and innovation.

Code No	Description
04208	**COOKE KIT METRIC 3/8" DRIVE**
01711	**Short Torque Wrench (5-25Nm)**
01716	**8mm Socket**
01718	**10mm Socket**
01719	**12mm Socket**
01720	**13mm Socket**
01721	**14mm Socket**
01730	**17mm Socket**
01740	**19mm Socket**
01742	**22mm Socket**
01791	**5" Extension**

RATCHETS & SOCKETS

Our Ratchet and Socketry employs our gap technology with carefully measured collars on our tools which create an overlap of nylon ensuring maximum personal protection.

Nylon non-conductive screw for ultimate protection

Ergonomic rotary dial for easy drive reversibility

Sturdy, fine toothed and durable ratchet mechanism

Slim design with comfortable handle and hand stop to prevent sliding when used with gloves

Total enclosure, no exposed metallic parts when mated with an ITL socket

Code No.	Description
01750	**1/2" Drive Reversible Ratchet**
01780	**3/8" Drive Reversible Ratchet**
01775	**1/4" Drive Reversible Ratchet**

SOCKETS & ACCESSORIES - 1/2” SQUARE DRIVE

METRIC

Code No	Description
01330	**8mm**
01340	**9mm**
01350	**10mm**
01360	**11mm**
01370	**12mm**
01380	**13mm**
01390	**14mm**
01400	**15mm**
01410	**16mm**
01420	**17mm**
01430	**18mm**
01440	**19mm**
01450	**20mm**
01460	**21mm**
01470	**22mm**
01480	**23mm**
01490	**24mm**
01500	**25mm**
01510	**26mm**
01520	**27mm**
01530	**28mm**
01540	**29mm**
01550	**30mm**
01560	**32mm**
01562	**36mm**

IMPACT METRIC

Code No	Description
01332	**8mm**
01352	**10mm**
01362	**11mm**
01382	**13mm**
01402	**15mm**
01412	**16mm**
01422	**17mm**
01432	**18mm**
01442	**19mm**
01452	**20mm**
01462	**21mm**

IMPERIAL

Code No	Description
01565	**5/16”**
01570	**3/8”**
01580	**7/16”**
01590	**1/2”**
01600	**9/16”**
01610	**5/8”**
01620	**11/16”**
01630	**3/4”**
01640	**13/16”**
01650	**7/8”**
01660	**15/16”**
01670	**1”**
01680	**1 1/16”**
01690	**1 1/8”**
01700	**1 3/16”**
01710	**1 1/4”**

WHITWORTH

Code No	Description
01220	**1/8”**
01230	**3/16”**
01240	**1/4”**
01250	**5/16”**
01260	**3/8”**
01270	**7/16”**
01280	**1/2”**
01290	**9/16”**
01300	**5/8”**
01310	**11/16”**
01320	**3/4”**

DEEP METRIC

Code No	Description
01351	**10mm**
01361	**11mm**
01371	**12mm**
01381	**13mm**
01391	**14mm**
01401	**15mm**
01411	**16mm**
01421	**17mm**
01425	**18mm**
01441	**19mm**
01451	**20mm**
01461	**21mm**
01471	**22mm**
01481	**23mm**
01491	**24mm**
01495	**28mm**

DEEP IMPERIAL

Code No	Description
01566	**5/16”**
01571	**3/8”**
01581	**7/16”**
01591	**1/2”**
01601	**9/16”**
01611	**5/8”**
01621	**11/16”**
01631	**3/4”**
01641	**13/16”**
01651	**7/8”**
01661	**15/16”**
01671	**1”**

SOCKETS & ACCESSORIES - 1/2” SQUARE DRIVE

6 POINT

Code No	Description
01333	**8mm**
01343	**9mm**
01353	**10mm**
01363	**11mm**
01373	**12mm**
01383	**13mm**
01393	**14mm**
01403	**15mm**
01413	**16mm**
01423	**17mm**
01433	**18mm**
01443	**19mm**
01453	**20mm**
01463	**21mm**
01473	**22mm**
01483	**23mm**
01493	**24mm**
01503	**25mm**
01513	**26mm**
01523	**27mm**
01533	**28mm**
01543	**29mm**
01553	**30mm**
01563	**32mm**
01561	**36mm**

HEX KEY METRIC

Code No	Description
02769	**3mm**
02767	**4mm**
02763	**5mm**
02764	**6mm**
02766	**8mm**
02765	**10mm**
02758	**12mm**

HEX KEY IMPERIAL

Code No	Description
02771	**3/16”**
02772	**1/4”**
02773	**5/16”**
02774	**3/8”**
02775	**7/16”**
02776	**1/2”**
02777	**9/16”**
02778	**5/8”**
02779	**3/4”**

SLOTTED

Code No	Description
02040	**5.5mm**
02031	**8mm**
02034	**10mm**
02035	**12mm**

EXTENSION BARS

Code No	Description
01760	**5”**
01770	**10”**

DRIVE TOOLS

Code No	Description
01170	**L Handle**

Code No	Description
01180	**T Handle 100mm**
01190	**T Handle 150mm**
01200	**T Handle 300mm**
01210	**T Handle 450mm**

Code No	Description
01211	**Screwdriver Handle 450mm**

SPECIAL SOCKETS

Code No	Description
02032	**3/16” Octagon Socket**
02044	**3/16” Square End Socket**
01273	**Drive Link Box Socket**

ADAPTORS

Code No	Description
04401	**1/2” Drive Male to 3/8” Drive Female Adaptor**

SOCKETS & ACCESSORIES - 3/8” SQUARE DRIVE

METRIC	
Code No	Description
01716	**8mm**
01715	**9mm**
01718	**10mm**
01717	**11mm**
01719	**12mm**
01720	**13mm**
01721	**14mm**
01722	**15mm**
01728	**16mm**
01730	**17mm**
01734	**18mm**
01740	**19mm**
01741	**20mm**
01742	**22mm**

IMPERIAL	
Code No	Description
01714	**5/16”**
01723	**3/8”**
01724	**7/16”**
01725	**1/2”**
01726	**9/16”**
01727	**5/8”**
01731	**11/16”**
01739	**3/4”**
01743	**13/16”**
01744	**7/8”**

HEX KEY METRIC	
Code No	Description
02749	**4mm**
02748	**5mm**
02752	**6mm**

SLOTTED	
Code No	Description
02039	**5.5mm**
02038	**8mm**
02036	**10mm**
02037	**12mm**

HEX KEY IMPERIAL	
Code No	Description
02753	**1/8”**
02747	**3/16”**
02754	**1/4”**
02755	**5/16”**
02756	**3/8”**
02757	**1/2”**

EXTENSION BARS	
Code No	Description
01790	**3”**
01791	**5”**
01792	**10”**

DRIVE TOOLS	
Code No	Description
01215	**T Handle 100mm**
01216	**T Handle 150mm**
01217	**T Handle 300mm**
01218	**T Handle 450mm**

Code No	Description
01214	**Screwdriver Handle 250mm**

ADAPTORS	
Code No	Description
04402	**3/8” Drive Male to 1/2” Drive Female Adaptor**
04404	**3/8” Drive Male to 1/4” Drive Female Adaptor**

SPECIAL SOCKETS	
Code No	Description
02033	**3/16” Octagon Socket**
02045	**3/16” Square End Socket**
01271	**Link Box Socket**
02051	**Female Link Extractor Socket 1/2” BS**
02052	**Male Link Extractor Socket 1/4” Whitworth**
02053	**Male Link Extractor Socket 3/8” Whitworth**

SOCKETS & ACCESSORIES - 1/4” SQUARE DRIVE

METRIC	
Code No	Description
07200	**4mm**
07201	**4.5mm**
07202	**5mm**
07203	**5.5mm**
07204	**6mm**
07206	**7mm**
07208	**8mm**
07210	**9mm**
07212	**10mm**
07214	**11mm**
07216	**12mm**
07218	**13mm**
07220	**14mm**

DEEP METRIC	
Code No	Description
07300	**4mm**
07301	**4.5mm**
07302	**5mm**
07303	**5.5mm**
07304	**6mm**
07306	**7mm**
07308	**8mm**
07310	**9mm**
07312	**10mm**
07314	**11mm**
07316	**12mm**
07318	**13mm**
07320	**14mm**

EXTENSION BARS	
Code No	Description
01776	**2”**
01778	**6”**

BIT ADAPTORS	
Code No	Description
07230	**Bit Adaptor**
07350	**Bit Adaptor**
07351	**Bit Adaptor Set with Bits**

Phillips® 1pt, 2pt

Hex 4mm, 5mm, 6mm

Torx T10, T15, T20, T25, T30, T40

ADAPTOR	
Code No	Description
04403	**1/4” Drive Male to 3/8” Drive Female Adaptor**

PLIERS & CUTTERS

Combining the best possible steel with state of the art insulated hand tool manufacturing we created a wide range of premium quality pliers.

Protective design to allow a secure hold when rotating and pulling

Ergonomic, injection moulded handles – tool and insulation bonded as one

Highest quality cutting edges – maximum cutting performance

PLIERS

COMBINATION PLIERS

Code No	Description
00011	**6” Combination Pliers**
00021	**8” Combination Pliers**
00031	**10” Combination Pliers**

LINESMAN PLIERS

Code No	Description
00045	**9.5” Linesman Pliers**

SNIPE NOSE PLIERS

Code No	Description
00051	**6” Snipe Nose Pliers**
00061	**8” Snipe Nose Pliers**

BENT NOSE PLIERS

Code No	Description
00071	**6” Bent Nose Pliers**
00081	**8” Bent Nose Pliers**

FLAT NOSED PLIERS

Code No	Description
00091	**6” Flat Nose Pliers**

GAS PLIERS

Code No	Description
00095	**8.5” Gas Pliers**

PLIERS

DIAGONAL CUTTING PLIERS

Code No	Description
00101	**6” Diagonal Cutting Pliers**
00111	**7” Diagonal Cutting Pliers**
00115	**7.5” High Leverage Diagonal Cutting Pliers**

GROOVE JOINT PLIERS

Code No	Description
00141	**10” Groove Joint Pliers**
00151	**12” Groove Joint Pliers**
00161	**16” Groove Joint Pliers**

WIRE STRIPPING PLIERS

Code No	Description
00170	**6” Wire Stripping Pliers**
00175	**Curved Wire Stripper**

CRIMP PLIERS

Code No	Description
00177	**Crimp Pliers**

CUTTERS

CABLE CUTTERS

Code No	Description
00120	**8” Cable Cutter**
00125	**9” Cable Cutter**
00130	**10” Cable Cutter**
00136	**32” Cable Cutter**

TREE LOPPER

Code No	Description
00172	**32” Tree Lopper**

SAWS

JUNIOR HACKSAW	
Code No	Description
01810	**Junior Hacksaw**

SENIOR HACKSAW	
Code No	Description
01820	**Senior Hacksaw**

ARMOUR SAW	
Code No	Description
03060	**Armour Saw**

KNIVES

CORING KNIFES	
Code No	Description
01830	**Coring Knife**
01832	**Short Blade Coring Knife**

HACKING KNIFE	
Code No	Description
01840	**Hacking Knife**

NYLON HACKING KNIFE	
Code No	Description
01845	**Nylon Hacking Knife**

LINESMAN HOLSTER KNIFE	
Code No	Description
01835	**Linesman Holster Knife**

SPECIALS

SCRAPING TOOL	
Code No	Description
01800	**Scraping Tool**

RASP	
Code No	Description
01801	**10” Rasp**

SPANNERS & WRENCHES

Expansive range of insulated spanners for frequent use and safety for your everyday work.

OPEN ENDED SPANNERS TOTALLY INSULATED

METRIC	
Code No	Description
00274	**7mm**
00275	**8mm**
00277	**9mm**
00280	**10mm**
00290	**11mm**
00295	**12mm**
00300	**13mm**
00310	**14mm**
00320	**15mm**
00330	**16mm**
00340	**17mm**
00350	**18mm**
00360	**19mm**
00370	**20mm**
00380	**21mm**
00390	**22mm**
00400	**23mm**
00410	**24mm**
00417	**27mm**
00420	**30mm**

IMPERIAL	
Code No	Description
00423	**1/4”**
00425	**5/16”**
00427	**11/32”**
00430	**3/8”**
00440	**7/16”**
00441	**1/2”**
00450	**9/16”**
00455	**5/8”**
00460	**11/16”**
00470	**3/4”**
00475	**13/16”**
00480	**7/8”**
00485	**15/16”**
00490	**1”**
00500	**1 1/4”**

WHITWORTH	
Code No	Description
00180	**3/16”**
00190	**1/4”**
00200	**5/16”**
00210	**3/8”**
00220	**7/16”**
00230	**1/2”**
00240	**9/16”**
00250	**5/8”**
00260	**11/16”**
00270	**3/4”**

General Use versions also available

OFFSET RING SPANNERS

METRIC	
Code No	Description
01060	**8mm**
01070	**10mm**
01075	**11mm**
01080	**13mm**
01090	**17mm**
01095	**18mm**
01100	**19mm**
01110	**22mm**
01120	**24mm**

IMPERIAL	
Code No	Description
01125	**5/16”**
01130	**9/16”**
01135	**1/2”**
01136	**5/8”**
01137	**11/16”**
01140	**3/4”**
01145	**13/16”**
01150	**7/8”**
01160	**1”**

WHITWORTH	
Code No	Description
01000	**1/4”**
01010	**3/8”**
01020	**7/16”**
01030	**1/2”**
01040	**9/16”**
01050	**5/8”**

RATCHETING RING SPANNERS TOTALLY INSULATED

METRIC	
Code No	Description
07010	**10mm**
07011	**11mm**
07013	**13mm**
07014	**14mm**
07016	**16mm**
07017	**17mm**
07019	**19mm**
07022	**22mm**
07024	**24mm**

IMPERIAL	
Code No	Description
07050	**3/8”**
07051	**7/16”**
07052	**1/2”**
07053	**9/16”**
07054	**5/8”**
07055	**11/16”**
07056	**3/4”**
07057	**13/16”**
07058	**7/8”**
07059	**1”**

General Use versions also available

ADJUSTABLE WRENCHES

Code No	Description
03000	**8” Adjustable Wrench**
03005	**10” Adjustable Wrench**
03010	**12” Adjustable Wrench**
03020	**15” Adjustable Wrench**
03015	**12” Hammerhead Adjustable Wrench**

FIXED RATCHET SOCKET SPANNERS

Code No	Description
03030	**13mm x 17mm**
03035	**13mm x 17mm - 6 point**
03040	**17mm x 19mm**
03041	**19mm x 24mm**
03045	**21mm x 26mm**
03050	**24mm x 30mm**

SLIM DESIGN SPANNER

Code No	Description
00231	**1/2" Whitworth 15 Degree Crank**

DRIVERS

Screwdrivers, Nut Drivers, Hex Drivers, Link Extractors and Specials

Hardest most durable insulated drivers on the market with 3 stage moulding process giving a fully insulated shaft and handle for supreme safety.

SCREWDRIVERS

TERMINAL FLAT	
Code No	Description
01860	**75mm x 3mm x 0.5mm**
01870	**100mm x 3mm x 0.5mm**

POZIDRIV	
Code No	Description
01979	**75mm x 3mm x No.0**
01980	**75mm x 5mm x No.1**
01981	**75mm x 5mm x No.1** *Special*
01989	**200mm x 5mm x No.1**
01990	**100mm x 6mm x No.2**
01991	**100mm x 6mm x No.2** *Special*
02000	**150mm x 8mm x No.3**
02210	**235mm x 6mm x No.2**

PHILLIPS	
Code No	Description
02005	**75mm x 3mm x No.0**
02010	**75mm x 5mm x No.1**
02020	**100mm x 6mm x No.2**
02030	**150mm x 8mm x No.3**

FLAT	
Code No	Description
01875	**75mm x 4mm x 0.8mm**
01876	**75mm x 4mm x 0.8mm** *Longer 95mm Shank*
01877	**150mm x 5mm x 0.8mm**
01880	**75mm x 5mm x 1mm**
01890	**150mm x 5mm x 1mm**
01900	**150mm x 5mm x 1mm** *Reduced Shank*
01910	**203mm x 5mm x 1mm**
01915	**125mm x 6.5mm x 1.2mm**
01920	**150mm x 6.5mmm x 1.2mm**
01930	**100mm x 6.5mm x 1.2mm**
01940	**150mm x 8mm x 1.2mm**
01950	**150mm x 8mm x 1.2mm** *Reduced Shank*
01960	**203mm x 10mm x 1.6mm**
01970	**254mm x 10mm x 1.6mm**

ROBERTSON	
Code No	Description
02024	**No.1**
02026	**No.2**
02028	**No.3**

TORX	
Code No	Description
02701	**T7**
02702	**T10**
02703	**T15**
02704	**T20**
02705	**T25**
02706	**T27**
02707	**T30**
02708	**T40**
02709	**T50**

NUT DRIVERS

METRIC	
Code No	Description
02220	**0BA**
02230	**1BA**
02240	**2BA**
02260	**4BA**
02300	**4mm**
02310	**5mm** - *25mm Nut Clearance*
02311	**5mm** - *150mm Nut Clearance*
02320	**6mm** - *25mm Nut Clearance*
02321	**6mm** - *50mm Nut Clearance*
02250	**7mm**
02280	**8mm**
02290	**10mm**
02291	**11mm**
02341	**13mm**

IMPERIAL	
Code No	Description
02305	**3/16”**
02315	**1/4”**
02331	**5/16”**
02332	**11/32”**
02333	**3/8”**
02334	**7/16”**
02335	**1/2”**
02336	**9/16”**
02337	**5/8”**

WHITWORTH	
Code No	Description
02218	**3/16”**
02219	**1/4”**

METRIC – ‘T’ HANDLE	
Code No	Description
02770	**0BA**
02780	**2BA**
02790	**3BA**
02820	**8mm**
02830	**10mm**
02840	**13mm**
02850	**17mm**
02890	**19mm**

IMPERIAL – ‘T’ HANDLE	
Code No	Description
02860	**5/8”**
02870	**11/16”**
02880	**3/8”**

WHITWORTH – ‘T’ HANDLE	
Code No	Description
02800	**3/16” Whitworth**
02810	**1/4” Whitworth**
02811	**5/16” Whitworth**

HEX KEYS

‘T’ HANDLE	
Code No	Description
02670	**3mm**
02680	**4mm - 5/32”**
02690	**5mm**
02700	**6mm**
02746	**8mm**
02739	**9mm**
02761	**10mm**
02768	**12mm**
02710	**1/8”**
02730	**3/16”**
02731	**7/32”**
02740	**1/4”**
02742	**5/16”**
02743	**3/8”**
02744	**7/16”**
02745	**1/2”**

SHORT ‘T’ HANDLE	
Code No	Description
02735	**3/16”’**

LIGHT ‘T’ HANDLE	
Code No	Description
02627	**2mm**
02628	**2.5mm**
02760	**3mm**
02631	**4mm**
02632	**5mm**

SCREWDRIVER HANDLE	
Code No	Description
02590	**3mm**
02600	**4mm**
02610	**5mm**
02620	**6mm**
02630	**1/8”**
02650	**3/16’**
02660	**1/4”**

COOKER KNOB	
Code No	Description
02751	**2mm**
02750	**3mm**

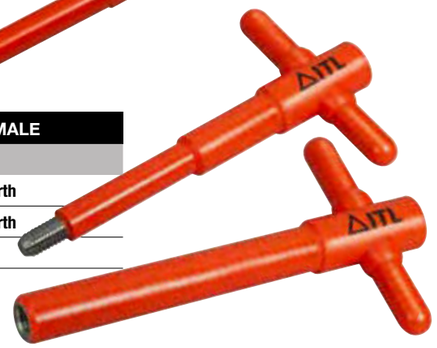
LINK EXTRACTORS

SCREWDRIVER HANDLE FEMALE	
Code No	Description
02410	**1/4" Whitworth**
02420	**5/16" Whitworth**
02430	**3/8" Whitworth**
02440	**1/2" Whitworth**
02450	**8mm**
03132	**10mm**
03133	**12mm**
02470	**1/4" BSF**
02480	**5/16" BSF**
02490	**3/8" BSF**
02500	**1/2" BSF**

SCREWDRIVER HANDLE MALE	
Code No	Description
02350	**3/16" Whitworth**
02360	**1/4" Whitworth**
02370	**5/16" Whitworth**
02380	**3/8" Whitworth**
02390	**8mm**
03130	**10mm**
03131	**12mm**

'T' HANDLE MALE	
Code No	Description
02515	**1/4" Whitworth**
02520	**5/16" Whitworth**
02530	**1/2" Whitworth**
02540	**8mm**
02541	**10mm**

'T' HANDLE FEMALE	
Code No	Description
02550	**3/8" Whitworth**
02560	**1/2" Whitworth**
02570	**1/2" BSF**



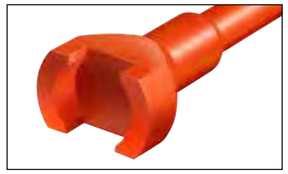
SPECIAL LINK EXTRACTORS

SCREWDRIVER HANDLE	
Code No	Description
01859	**Rail Link Extractor**
02381	**3/8" Whitworth Link Extractor with Screwdriver Tip**
02400	**3/16" Square End Male Link Extractor**
02460	**1/2" Whitworth Left Hand Female Link Extractor**
02505	**1/2" Combination Link Extractor Screwdriver**
02506	**Combination Link Extractor** *1/2" BSF Female -1/4 Whitworth Male*
01272	**Special Link Box Screwdriver**

T' HANDLE	
Code No	Description
02580	**1/2" Whitworth Left Hand Female Link Extractor**

Combination Link Extractor Screwdriver

Combination Male/Female Link Extractor



Special Link Box Screwdriver

SPECIALIST & ACCESSORIES

Specialist injection moulded shapes and tools to fit your every need.

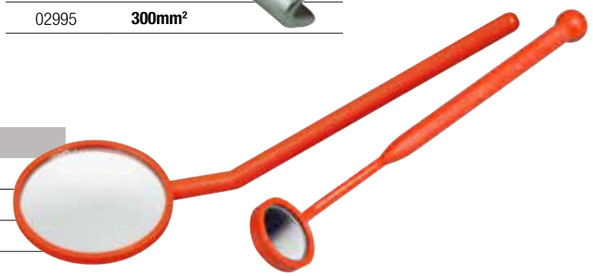
CORE BENDING BARS

INTERNAL	
Code No	Description
02940	**70mm²**
02950	**95mm²**
02960	**120mm²**
02970	**185mm²**
02980	**240mm²**
02990	**300mm²**

EXTERNAL	
Code No	Description
02945	**70mm²**
02955	**95mm²**
02965	**120mm²**
02975	**185mm²**
02985	**240mm²**
02995	**300mm²**

MIRRORS

Code No	Description
01850	**Inspection Mirror**
01851	**Large Inspection Mirror**
01852	**Adjustable Extension Handle**



KNOCKOUT TOOL

Code No	Description
03101	**Knockout Tool**

PLUG REMOVAL TOOL

Code No	Description
03102	**Plug Removal Tool**

HOLDING TOOLS

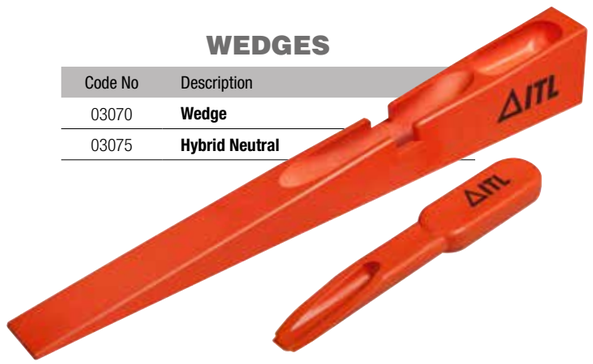
Code No	Description
03116	**Universal Holding Tool**
03117	**95mm Holding Tool**
03118	**120mm Holding Tool**
03119	**185mm Holding Tool**
03120	**300mm Holding Tool**
03122	**Holding Tool for Wave Form Connector**

RELEASE TOOL

Code No	Description
03103	**Release Tool**

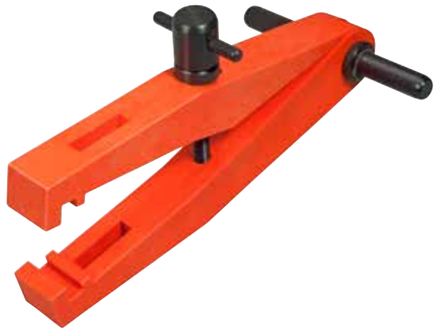
WEDGES

Code No	Description
03070	**Wedge**
03075	**Hybrid Neutral**



FUSE CARRIER

Code No	Description
03106	**Fuse Carrier**



SHEATH LIFTING TOOL

Code No	Description
03108	**Sheath Lifting Tool**

SAFETY HOOK

Code No	Description
09000	**Safety Hook**

SWITCHBOARD MATTING

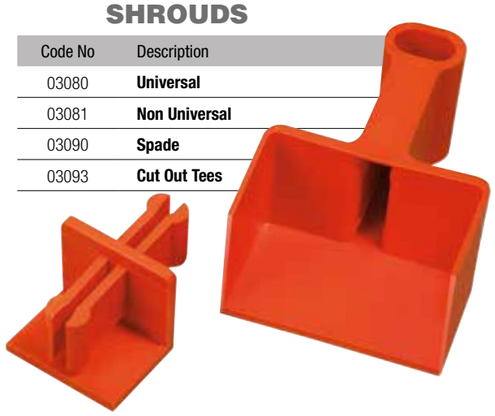
Code No	Description
05145	**Switchboard Matting**

UMBRELLA

Code No	Description
03193	**Umbrella**

SHROUDS

Code No	Description
03080	**Universal**
03081	**Non Universal**
03090	**Spade**
03093	**Cut Out Tees**



TIGHTENING TOOL

Code No	Description
03109	**Tightening Tool**

NON CONDUCTIVE TAPE MEASURE

Code No	Description
01855	**3m/10ft Tape Measure**

TOOL CARRIERS

Code No	Description
03190	**8 Pocket Tool Roll**
03191	**12 Pocket Tool Roll**
03199	**Holdall**
03200	**Case**

INSULATING GLOVES

CLASS 00		
Code No	Size	Length
05100	**8**	**36mm**
05101	**9**	**36mm**
05102	**10**	**36mm**
05103	**11**	**36mm**

CLASS 0		
Code No	Size	Length
05108	**8**	**36mm**
05109	**9**	**36mm**
05110	**10**	**36mm**
05111	**11**	**36mm**
05112	**8**	**41mm**
05113	**9**	**41mm**
05114	**10**	**41mm**
05115	**11**	**41mm**

CLASS 1		
Code No	Size	Length
05116	**8**	**36mm**
05117	**9**	**36mm**
05118	**10**	**36mm**
05119	**11**	**36mm**
05120	**8**	**41mm**
05121	**9**	**41mm**
05122	**10**	**41mm**
05123	**11**	**41mm**

CLASS 2		
Code No	Size	Length
05124	**8**	**36mm**
05125	**9**	**36mm**
05126	**10**	**36mm**
05127	**11**	**36mm**
05128	**8**	**41mm**
05129	**9**	**41mm**
05130	**10**	**41mm**
05131	**11**	**41mm**

CLASS 3		
Code No	Size	Length
05132	**8**	**36mm**
05133	**9**	**36mm**
05134	**10**	**36mm**
05135	**11**	**36mm**
05136	**8**	**41mm**
05137	**9**	**41mm**
05138	**10**	**41mm**
05139	**11**	**41mm**

FLEX AND GRIP CLASS 0	
Code No	Size
05154	**8**
05155	**9**
05156	**10**
05157	**11**

FLEX AND GRIP CLASS 1	
Code No	Size
05158	**8**
05159	**9**
05160	**10**
05161	**11**

FLEX AND GRIP CLASS 2	
Code No	Size
05162	**8**
05163	**9**
05164	**10**
05165	**11**

ARC FLASH CLASS 0	
Code No	**Size**
05180	**8**
05181	**9**
05182	**10**
05183	**11**

FLEX AND GRIP CLASS 3	
Code No	Size
05166	**8**
05167	**9**
05168	**10**
05169	**11**

FLEX AND GRIP CLASS 4	
Code No	Size
05170	**8**
05171	**9**
05172	**10**
05173	**11**

COTTON GLOVES

Code No	Description
05149	**Cotton Gloves**

PNEUMATIC GLOVE TESTER

Code No	Description
05153	**Pneumatic Glove Tester**

OVERGLOVES

Code No	Description
05150	**9B**
05151	**10C**
05152	**11D**
05154	**12E**

EQUIVALENT STANDARD BOLT DIAMETERS

METRIC MEASUREMENTS										
Openings across flats and Nominal Size	BOLT SIZE									
	DIN ISO 272						Swedish Dimensions SMS			
			with flange				Metric		Whitworth	
mm	Normal Hex	Large Hex	Screw	Nut	Norwegian Sizes	French Sizes	small 1414	large 1412	small 1415	large 1413
3										
3,2	1,6									
3,5										
4	2				1,7	2,5	2,3			
4,5					2		2,6			
5	2,5				2,3	3	3			
5,5	3				2,6					
6					3	3,5	3,5	3		
7	4		5		3,5	4 4,5	4	3,5		
8	5		6	5	4	5	5	4		
9					5	5,5	5			
10	6		8	6		6	6			
11	7				6 7		7	6		
12						7	8			
13	8		10	8					5/16	1/4
14					8	8		8		
15			12	10			10		3/8	5/16
16	10					9				
17					9 10	10		10		
18	12		14	12			12		7/16	3/8
19					11	11				
20										
20,8										
21	14	12	16	14		12	14		1/2	7/16
22					12 14			12 14		
23						14				1/2
24	16	14		16			16		5/8	
25										
26						16				
27	18	16	20		16		18	16		
28									3/4	5/8
29						18				
30	20	18		20			20			
32					18 20	20	22	18 20		
33									7/8	3/4
34	22	20					24			

AMERICAN MEASUREMENTS						
Openings across flats and Nominal Size	BOLT SIZE					
		USS				
Inch	mm	Nuts and Screws acc. to SAE Stand.	Nuts and Screws	Cap Screws	Nuts and Screws	Cap Screws
1/8	3,175					
5/32	3,97				0 1	
3/16	4,76				2 3	
13/64	5,16					
7/32	5,56					
15/64	5,95					
1/4	6,35				4	
17/64	6,75					
9/32	7,14					
19/64	7,54					
5/16	7,94		1/8	1/8	5 6	
11/32	8,73				8	
3/8	9,52			3/16	10	
13/32	10,32					
7/16	11,11	1/4		1/4	12.1/4	1/4
15/32	11,90					
1/2	12,70	5/16	1/4	5/16		5/16
9/16	14,29	3/8		3/8	5/16	3/8
19/32	15,08		5/16			
5/8	15,88	7/16		7/16	3/8	7/16
11/16	17,46		3/8			
3/4	19,05	1/2		1/2	7/16	1/2
25/32	19,84		7/16			
13/16	20,64			9/16	1/2	9/16
7/8	22,22	9/16	1/2	5/8	9/16	5/8
15/16	23,81	5/8				
31/32	24.61		9/16			
1	25,40	11/16		3/4	5/8	3/4
1.1/6	26,99	3/4	5/8			
1.1/8	28,57			7/8	3/4	7/8
1.3/16	30,16					
1.1/4	31,75	7/8	3/4	1		
1.5/16	33,34				7/8	1

BRITISH MEASUREMENTS				
NOMINAL SIZE				
Diameter of Thread Inch			Openings across flats	
BSW Large Hex BS 192	BSF and BSW Small Hex BS 1083			
W	BS	BA	Inch	mm
		10	.117	2,97
		9	.131	3,33
		8	.152	3,86
		7	.172	4,37
		6	.193	4,90
		5	.220	5,59
		4	.248	6,30
	1/16 =3/32		.256	6,50
		3	.282	7,16
	3/32 = 1/8		.297	7.54
		2	.324	8,23
	1/8 = 3/16		.340	8,64
		1	.365	9,27
		0	.412	10,49
	3/16 = 1/4		.445	11,30
	1/4 = 5/16		.525	13,33
	5/16 = 3/8		.600	15,24
	3/8 = 7/16		.710	18,03
	7/16 = 1/2		.820	20,83
	1/2 = 9/16		.920	23,34
	9/16 = 5/8		1.010	25,65
	5/8 = 11/16		1.100	27,94
	11/16 = 3/4		1.200	30,48
	3/4 = 7/8		1.300	33,02

EQUIVALENT STANDARD BOLT DIAMETERS

METRIC MEASUREMENTS										
Openings across flats and Nominal Size	BOLT SIZE									
	DIN ISO 272						Swedish Dimensions SMS			
			with flange				Metric		Whitworth	
mm	Normal Hex	Large Hex	Screw	Nut	Norwegian Sizes	French Sizes	small 1414	large 1412	small 1415	large 1413
35						22				
36	24	22			22 24			22 24		
37									1	7/8
38						24				
41	27	24			27			27		
42						27			1.1/8	1
46	30	27			30	30		30		
47									1.1/4	1.1/8
50	33	30			33	33		33		
52									1.3/8	1.1/4
54						36				
55	36	33			36			36		
56									1.1/2	1.3/8
58						39				
60	39	36			39			39	1.5/8	1.1/2
63						42				
65	42	39			42			42	1.3/4	1.5/8
67						45				
70	45				45			45	1.7/8	1.3/4
71						48				
75	48				48			48	2	1.7/8
77						52				
80	52				52			52		2
82						56				
85	56				56			56		2.1/4
88						60				
90	60				60			60		
94						64				
95	64				64			64		2.1/2
100	68				68	68		68		
105	72				72	72		72		2.3/4
110	76				76	76		76		3
115	80				80			80		
116						80				
120	85				84			85		3.1/4
130	90				89			90		3.1/2
135	95				94			95		3.3/4
145	100				99			100		4
150	105				104			105		
155	110				109			110		4.1/4

AMERICAN MEASUREMENTS						
Openings across flats and Nominal Size	BOLT SIZE					
		USS				
Inch	mm	Nuts and Screws acc. to SAE Stand.	Nuts and Screws	Cap Screws	Nuts and Screws	Cap Screws
1.3/8	34,92			1.1/8		
1.7/16	36,51	1	7/8			
1.1/2	38,10			1.1/4	1	1.1/8
1.9/16	39,69					
1.5/8	41,28	1.1/8	1	1/38		
1.11/16	42,86				1.1/8	1.1/4
1.3/4	44,45					
1.13/16	46,04	1.1/4	1.1/8			
1.7/8	47,63		1.1/4			
2	50,80	1.3/8	1.1/4			
2.1/16	52,39				1.3/8	1.1/4
2.3/16	55,56	1.1/2	1.3/8			
2.1/4	57,15				1.1/2	
2.3/8	60,32		1.1/2			
2.7/16	61.91				1.5/8	
2.9/16	65,09		1.5/8			
2.5/8	66,68			1.3/4		
2.3/4	69,85		1.3/4			
2.13/16	71,44			1.7/8		
2.15/16	74,61		1.7/8			
3	76,20			2		
3.1/8	79,38		2			
3.3/8	85,72			2.1/4		
3.1/2	88,90		2.1/4			
3.3/4	95,25			2.1/2		
3.7/8	98,42		2.1/2			
4.1/8	104,78			2.3/4		
4.1/4	107,95		2.3/4			
4.1/2	114,30			3		
4.5/8	117,48		3			
5	127,00		3.1/4			
5.3/8	136,52		3.1/2			
5.3/4	146,05		3.3/4			
6.1/8	155,57		4			

BRITISH MEASUREMENTS				
NOMINAL SIZE				
Diameter of Thread Inch			Openings across flats	
BSW Large Hex BS 192	BSF and BSW Small Hex BS 1083			
W	BS	BA	Inch	mm
	13/16 = 15/16		1.390	35,31
	7/8 = 1		1.480	37.59
	15/16 = 1./16		1.580	40,13
	1 = 1.1/8		1.670	42.42
	1.1/8 = 1.1/4		1.860	47,24
	1.1/4 = 1.3/8		2.050	52,07
	1.3/8 = 1.1/2		2.220	56,39
	1.1/2 = 1.5/8		2.410	61,21
	1.5/8 = 1.3/4		2.580	65,53
	1.3/4 = 2		2.760	70,10
	2 = 2.1/4		3.150	80,01
	2.1/4 = 2.1/2		3.550	90,17
	2.1/2 = 2.3/4		3.890	98,81
	2.3/4 = 3		4.180	106,17
	3 = 3.1/4		4.530	115,06
	3.1/4 = 3.1/2		4.850	123,19
	3.1/2 = 3.3/4		5.180	131,57
	3.3/4 = 4		5.550	140,92

Insulated Tools Limited Charlwoods Road, East Grinstead, West Sussex, RH19 2HR United Kingdom
Telephone: +44 (0)1342 324255 **Facsimile:** +44 (0)1342 327115 **Email:** enquiries@insulatedtools.co.uk **Web:** www.insulatedtools.co.uk