

OPTRONICS TOOLS



Networking Tools & Consumables Catalogue

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OPTRONICS

Optronics Worldwide

Optronics is a UK based manufacturer of Fibre Optic and Copper Networking Products. Our manufacturing capabilities include two facilities in the UK along with several others across the world.

Distribution channels currently exist in almost every European country, the USA, Middle East, Central and South America.

OPTRONICS TOOLS

Optronics manufacture a fully comprehensive range of tooling to aid in the preparation and installation of Fibre Optic and Copper Networks.

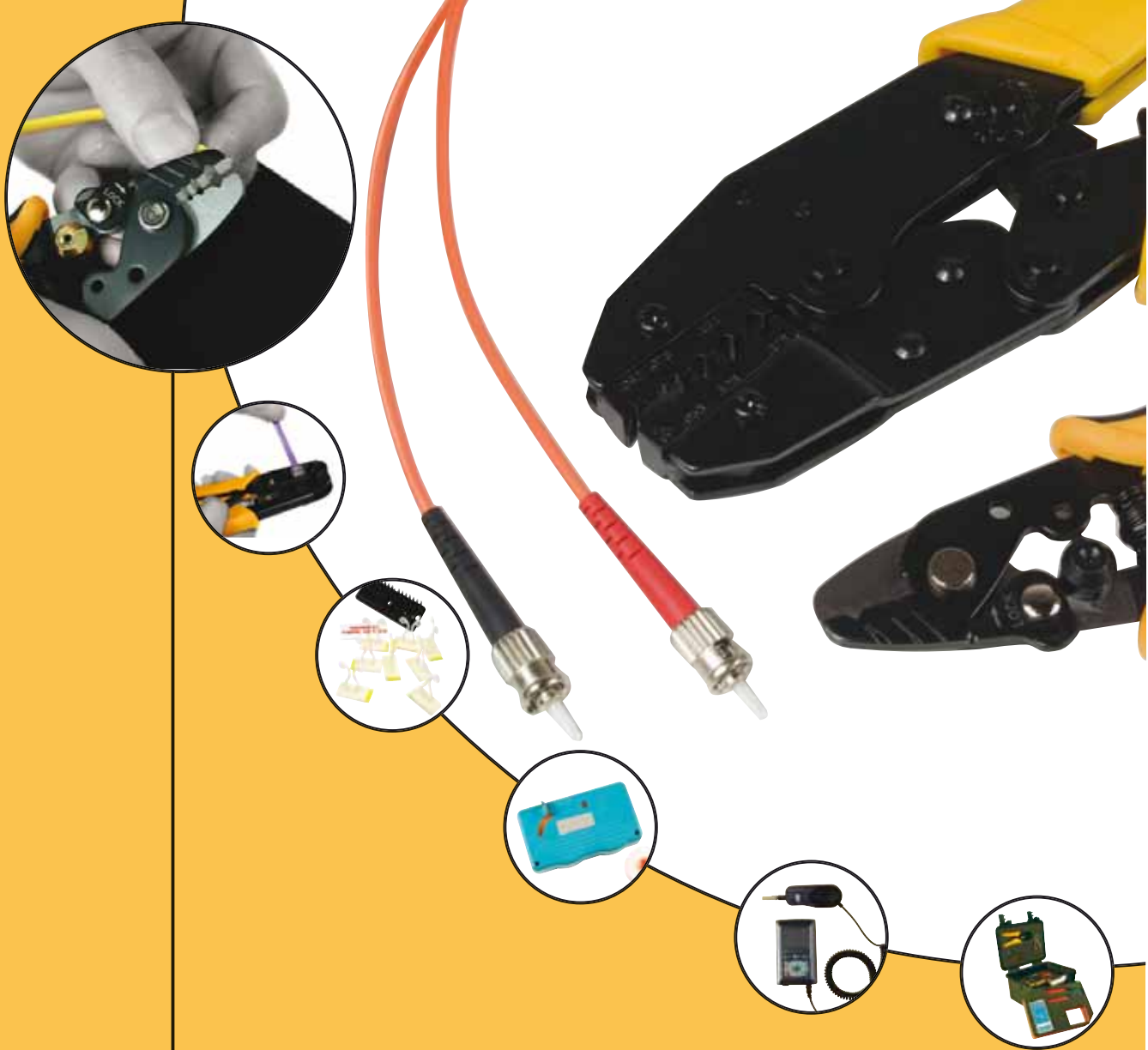
OptronicsTools were released in late 2007 and is the newest edition to the vast range of products offered by Optronics. We have successfully produced quality tools at competitive prices.

All tools are manufactured in ISO9001 facilities to assure quality and are mass produced so we can offer the best price possible.

The range includes Cable Cutters, Jacket/Sheath Strippers, Buffer/Coating Strippers, Kevlar Scissors, Cleavers, Punch Down Tools, Wire Strippers/Cutters and Crimp Tools.

With the installer in mind, all tools are ergonomically designed for comfort and ease of use. In addition to the information on the individual tools available, this catalogue also demonstrates how to use the tools through use of images.





HAND TOOLS - FIBRE OPTIC

- ▶ **Cable Cutters**
- ▶ **Adjustable Jacket Stripper**
- ▶ **Tri-Hole Fibre Stripper**
- ▶ **Kevlar Scissors**
- ▶ **Universal Crimp Tool**
- ▶ **Carbide Scribe**
- ▶ **Cleaving Tile**
- ▶ **2.5mm Polishing Puck**
- ▶ **1.25mm Polishing Puck**

Cable Cutters

A simple yet necessary tool if you wish to cut cables to your own lengths. These cutters can be used on cables up to 10.5mm in diameter be it fibre optic or copper UTP/STP.

The Jaws are curved to enhance the cutting action and prevents cables being crushed under the pressure from the jaws. Soft grip PVC handles makes this tool comfortable to use over long periods. A locking mechanism guarantees the jaws are kept closed when not being used or housed in a tool box to keep the blades from being damaged.

Features

- ▶ Perfect for cutting cables up to 10.5mm in diameter
- ▶ Easy and comfortable to use
- ▶ Locking latch to protect the blades
- ▶ Curved blade design, enhances cutting action and prevents cables being crushed

Specifications

- Function:** Cuts Cable up to 10.5mm in diameter
Material: Body: Hardened Middle Carbon Steel. Handles: PVC
Length: 167mm
Weight: 153g
Packaging: Blister Packet 105x15x260mm (WxHxL)



Product Description	Part No
0.41" Cable Cutter	OPT+CC

Adjustable Jacket Stripper

The OPT-CS is ideal for removing the outer jacket from multi-core fibre optic cable. It can be used on cables between 4.5 and 25mm in diameter.

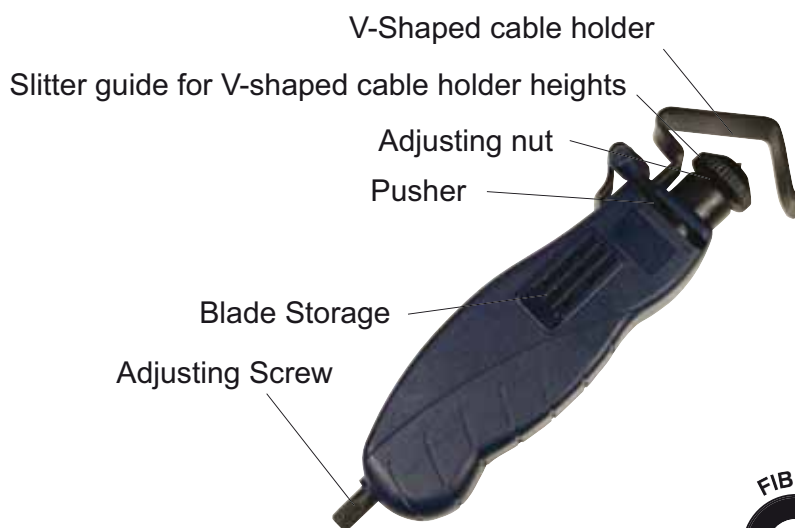
The stripper removes the jacket by slitting the sheath around the cables circumference and then horizontally to the desired length, the jacket is then peeled away from the cable. The OPT-CS is also perfect if you wish to gain access to fibres at mid length, this is achieved by making two cuts around the circumference at the desired position then by cutting horizontally between the two. The jacket can then be removed mid-span.

Features

- ▶ Strips outer jackets from multi-core fibre optic cables from 4.5 to 25mm in diameter
- ▶ Eliminates the need for two tools
- ▶ Adjustable cutting depth
- ▶ Strips circumferentially and horizontally for easy jacket removal
- ▶ Ideal for end or mid length stripping

Specifications

Function:	Strips Round Cables From 4.5 to 25mm in diameter
Material:	Body: Carbon Steel. Handle: ABS
Length:	152mm
Weight:	165g
Packaging:	Blister Packet 105x40x260mm (WxHxL)



Product Description

Jacket Stripper

Part No

OPT-CS

Tri-Hole Fibre Stripper

A superb stripping tool used to prepare fibres for termination.

The stripper has 3 stripping guides which are used to remove the 2 to 3mm jacket from patch cord cable, 900µm buffer insulation and 250µm acrylic coating. This leaves the 125µm bare fibre exposed for termination.

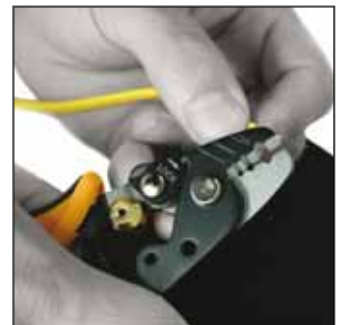
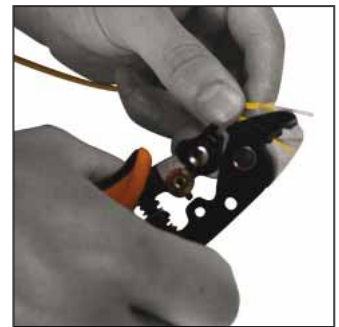
The stripping holes are angular as opposed to rounded, this gives the blades better grip onto the fibre which results in a quality strip. The handles are covered in TPR giving comfort to the user.

Features

- ▶ Three factory set stripping guides; 2 to 3mm outer jacket, 900µm buffer insulation, 250µm acrylic coating.
- ▶ Comfort grip handles
- ▶ Diamond shaped blades for optimum stripping
- ▶ Lock for protection

Specification

- Function:** Strips 2/3mm Jacket > 900µm Buffer > 250µm Coating
- Material:** Body: Hardened Middle Carbon Steel. Handles: TPR
- Length:** 162mm
- Weight:** 118g
- Packaging:** Blister Packet 95x15x215mm (WxHxL)



Product Description	Part No
Fibre Optic Stripper	OPT-FOS

Kevlar™ Scissors

Specialist scissors are required to cut the Kevlar™ from multi-core and patch cord cables.

These scissors are specifically designed with robust hardened steel and very sharp serrated blades to make removal of Kevlar™ very easy. They have a chrome plated finish and ergonomic handles. Due to the sharpness and robust design of the blades they can also be used on a multitude of other materials.

Features

- ▶ Sharp serrated teeth for cutting Kevlar™
- ▶ Robust and long lasting
- ▶ Ergonomic design
- ▶ Can be used on other materials

Specification

- Function:** Cuts Through Kevlar™
- Material:** Body: Hardened Stainless Steel. Handles: PVC
- Length:** 147mm
- Weight:** 60g
- Packaging:** Blister Packet 95x15x210mm (WxHxL)



Product Description	Part No
Kevlar Scissors	OPT-KS

Universal Crimp Tool

The OPT-FOCT is a very rugged crimping tool. It has a universal die which allows you to crimp any standard fibre optic connectors including ST, SC, FC, LC and MTRJ.

The comfort grip handles makes regular use easy on the users hand. The design incorporates a ratchet mechanism which ensures there is a consistent and quality crimp every time despite the user.



Features

- ▶ Tough and Durable
- ▶ Ratchet mechanism for consistent crimping
- ▶ Universal crimping die

Specification

- Function:** Crimps Standard FO Connectors
- Material:** Body: Hardened Middle Carbon Steel. Handles: Polypropylene
- Length:** 220mm
- Weight:** 492g
- Packaging:** Blister Packet 120x20x290mm (WxHxL)

Crimping Range

  Product Description	.042"				
	1.07mm				
	.068"	.078"	.128"	.151"	.178"
	1.72mm	1.98mm	3.25mm	3.84mm	4.52mm
	For Crimping RG 174, 179, Belden 8218, Fibre Optic				



Product Description	Part No
Fibre Optic Crimp Tool	OPT-FOCT

Carbide Scribe

Optronics have two styles of cleavers in it's range, the OPT-CPC is a pen style scribe which has a 30 degree wedge tip made from carbide, the material and angle ensures a precision cleave. The pen design is great for keeping the tip protected when stored.

Features

- ▶ 30 degree carbide wedge tip
- ▶ Pen style
- ▶ Easy to carry and store
- ▶ Ideal for field use

Specification

Function: Cleaves Protruding Optical Fibre From Connector Ferrules

Material: Body: Chrome Plated Copper. Tip: Carbide

Packaging: Plastic Case and Sleeve 35x20x160mm (WxHxL)

Weight: 31g

Length: 150mm



Ceramic Cleaver

The OPT-CCS is a double edge ceramic square. The ceramic contains Zirconia to give extra strength to a normally fragile product and two edges have been angled and sharpened for precision cleaving. Ideally used by termination houses due to the amount of uses achieved.

Features

- ▶ Double edge blade edge for increased life-span
- ▶ Ideal for termination houses
- ▶ Made with a ceramic/zirconia mix for robustness

Specification

Function: Cleaves Protruding Optical Fibre From Connector Ferrules

Material: Body: Zirconia / Ceramic Blend

Length: 50 x 50mm

Weight: 1g

Packaging: Plastic Tray 75 x 75 x 15mm (WxHxL)



Product Description

Carbide Pen Cleaver

Ceramic Cleaver

Part No

OPT-CPC

OPT-CCS

Polishing Pucks

Precision engineered stainless steel polishing pucks are used to hand polish connector end faces. The material gives this product an extremely long life span as it is harder for the abrasive to wear down the puck in comparison to plastic or brass alternatives.

Available as a universal 2.5mm puck for SC, FC, ST connectors alternatively there is a 1.25mm version for LC applications.

Features

- ▶ Made from stainless steel
- ▶ Available for 2.5mm or 1.25mm applications
- ▶ Long lasting
- ▶ Precision engineered

Specification

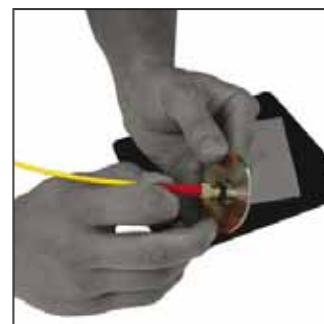
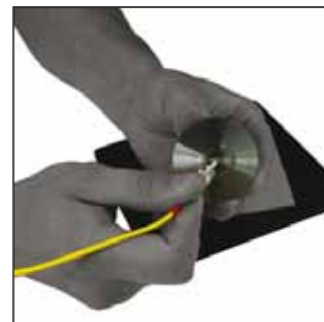
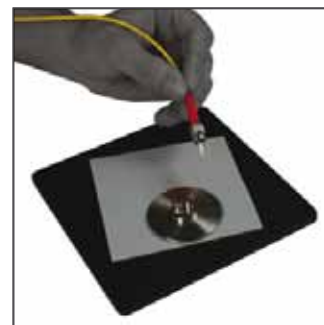
- Function:** Hand Polishing Connector End Faces
Material: Stainless Steel
Length: 50mm
Weight: 40g
Packaging: Loose Product 50x5mm (WxH)

Aperture for 2.5mm Ferrules

Long lasting Stainless Steel



Aperture for 1.25mm Ferrules



Product Description	Part No
2.5mm Polishing Puck	OPT-UNIPP
1.25mm Polishing Puck	OPT-LCPP



HAND TOOLS - COPPER

- ▶ **Universal Jacket Stripper**
- ▶ **Cyclops Sheath Stripper**
- ▶ **Economy Stripping/Insertion Tool**
- ▶ **Impact Punch Down Tool**
- ▶ **Non Impact Punch Down Tool**
- ▶ **Insertion Tool**
- ▶ **Multi-Wire Strippers**
- ▶ **Precision Wire Cutters**
- ▶ **RJ45/11/12 Crimp Tool**

Universal Stripper

A very versatile stripping tool, used primarily for stripping the jacket from round data cable such as UTP and STP.

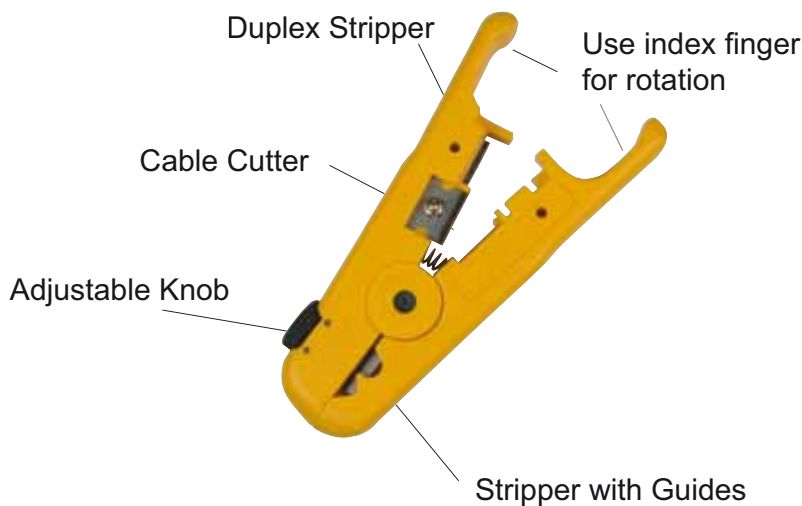
The Stripper has an adjustable blade which allows the stripping of cable from 3.2mm to 9mm in diameter. It can also strip outer jackets of small core fibre cable, multi-conductor cable, plus flat or irregular cable. The blade can be used to cut data cable and strip duplex fibre cable.

Features

- ▶ Small and lightweight
- ▶ Easy to use
- ▶ Adjustable blade
- ▶ Strips jackets between 3.2 and 9mm
- ▶ Can be used on different cable types
- ▶ Will strip duplex patch cord cable

Specification

- Function:** Strips Round Cables between 3.2 and 9mm in Diameter
Material: Body: ABS. Blade: Hardened Stainless Steel
Length: 112mm
Weight: 40g
Packaging: Blister Packet 95x20x215mm (WxHxL)



Product Description	Part No
Universal Data Stripper	OPT+UTPS

Cyclops Stripper

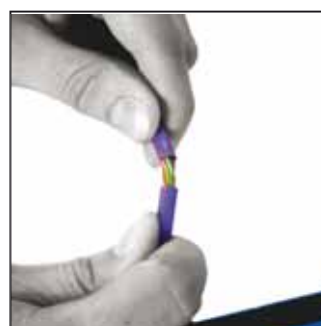
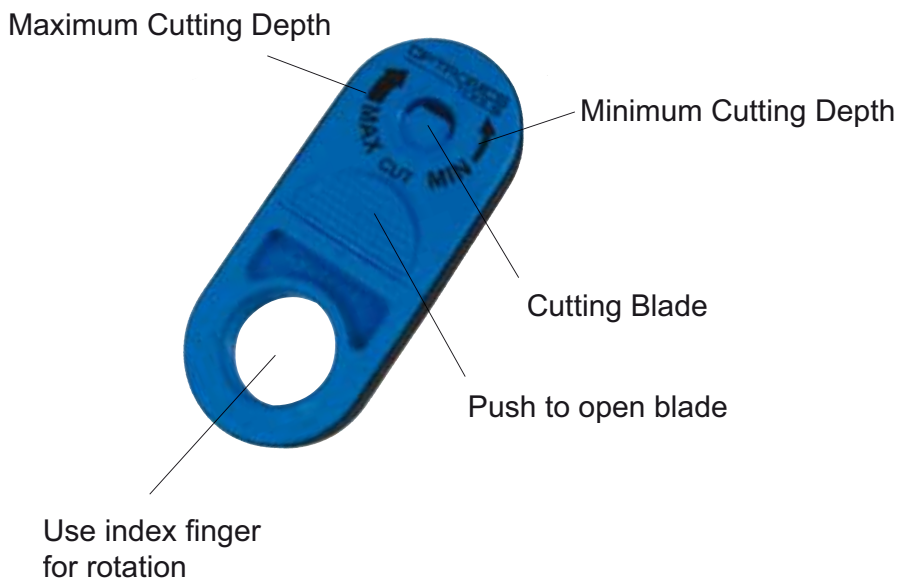
The Cyclops cable stripper can be used to strip the jacket from most cable types up to 11mm in diameter, these include UTP / STP data cable, fibre optic and audio cable. It is completely automatic and requires no blade adjustments

Features

- ▶ Factory set blade
- ▶ Simple and easy to use
- ▶ Ideal for UTP/STP, fibre optic and audio cable

Specification

- Function:** Strips Round Cables up to 11mm in Diameter
Material: Body: ABS. Blade: Hardened Stainless Steel
Length: 90mm
Weight: 35g
Packaging: Card Box 45x115x25mm (WxLxD)



Product Description	Part No
Cyclops Sheath Stripper	OPT+CYCLOPS

Economy Stripping/Insertion Tool

The simple design of this tool makes it very economical; this multi-use tool can be used to strip the jacket from UTP / STP cable between 5mm and 6.2mm in diameter. The steel insertion blade located at the tip can be used to punch down wires onto 110/88 type termination blocks.

Features

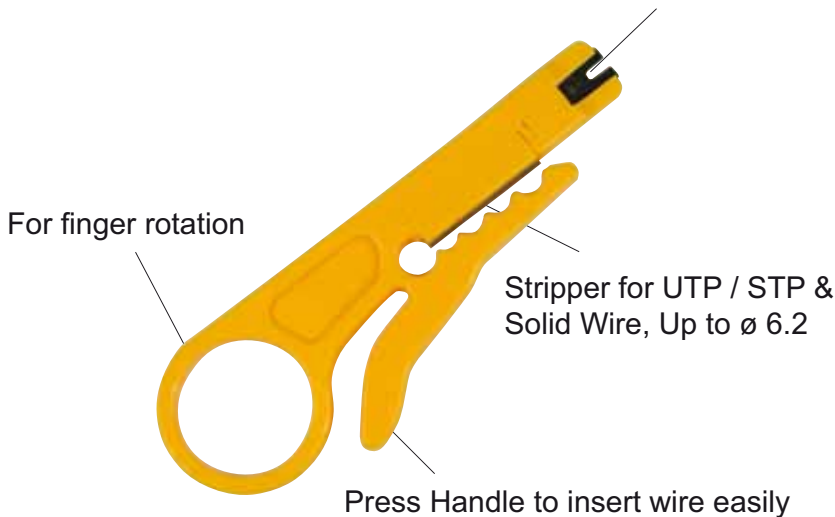
- ▶ Strips data cables from 5mm – 6.2mm in diameter
- ▶ 110/88 insertion tip
- ▶ Low cost

Specification

- Function:** Strips round cables between 5 and 6.2mm in diameter
 Inserts wires into 110 style Terminal Blocks
- Material:** Body: ABS. Blade: Hardened Stainless Steel
- Length:** 95mm
- Weight:** 11g
- Packaging:** Blister Packet 80x10x150mm (WxHxL)



Economic Insertion Tool for use on 110 / 88 Type (Steel)



Product Description	Part No
Economy Stripping/Insertion Tool	OPT+IST

Impact Tool

This next generation Impact Tool is used for punching down wires onto terminal blocks.

It features a soft grip ergonomic body to make it easy and comfortable to use. There is a switch to change the impact pressure for stubborn wires, it also has a built in hook and extractor for tracing and removing wires. The tool comes with a blade suitable for Krone style terminal blocks, the blades can lock into place and are interchangeable. There is also a storage compartment for one spare blade.

Features

- ▶ Adjustable pressure
- ▶ Built in hook and tracer
- ▶ Soft grip body
- ▶ Ergonomic design
- ▶ Interchangeable and reversible blades
- ▶ Storage for one spare blade

Specification

- Function:** Inserts Wires Into Terminal Blocks
- Impact:** Lo: 22lbs / Hi: 33lbs
- Material:** Body: ABS / TPR. Blade: Hardened Steel
- Length:** 168mm
- Weight:** 220g
- Packaging:** Blister Packet 120x35x295mm (WxHxL)



Product Description	Part No
Termination Tool with Krone Scissor Blade	OPT+IPDT-S
Replacement Scissor Blade - Krone	OPT+IPDT-SB
Blade for Krone Type Block w/o Scissors	OPT+KRBS1
Blade for 66 & 110 Type Blocks	OPT+66110SB1

Non Impact Tool

A non impact insertion tool relies on the pressure exerted by the user to punch down wires onto terminal blocks. It has a blade suitable for Krone style terminal blocks, however alternative blades are available.

Features

- ▶ Non impact
- ▶ Changeable blades
- ▶ Palm size

Specification

Function: Inserts Wires Into Terminal Blocks
Material: Body: Polycepal Resin / Fibre Glass. Blade: Hardened Steel
Length: 140mm
Weight: 58g
Packaging: Blister Packet 95x30x215mm (WxHxL)



Product Description	Part No
CAT5e / CAT6 Termination Tool	OPT+PDT
Blade for 66+110/88 Blocks	OPT+66110SB2

Insertion Tool

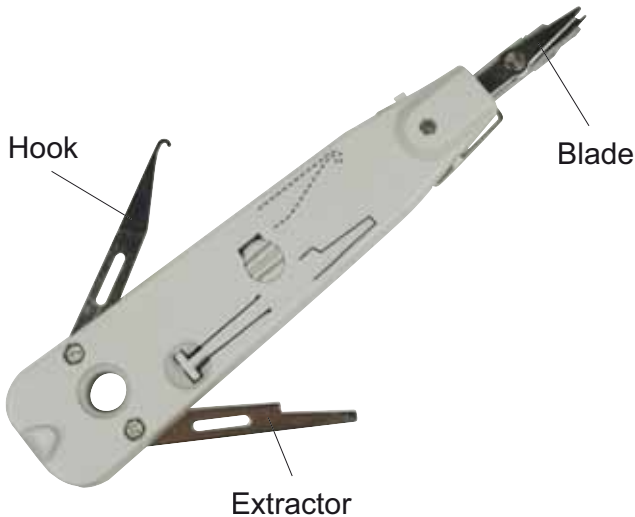
An industry standard 2A IDC insertion tool which can be used for punching down wires onto Krone style termination blocks. This tool benefits from an impact action to achieve a greater contact between the wire and IDC contacts. It also features a hook and tracer for tracing and removing wires.

Features

- ▶ Impact action
- ▶ Built in hook and tracer
- ▶ For use on IDC termination blocks
- ▶ Industry standard

Specification

- Function:** Inserts Wires Into Krone Style Terminal Blocks
- Material:** Body: ABS. Blade: Hardened Steel
- Length:** 180mm
- Weight:** 55g
- Packaging:** Blister Packet 120x35x295mm (WxHxL)



Product Description	Part No
Impact Tool for Krone Type Terminal Block	OPT+IDC

Multi-Wire Strippers

The multi-wire stripper is a versatile five in one tool. There are multiple stripping guides for removing the insulation of various wire sizes. The pliers style nose can be used to clamp wires and maintain grip whilst pulling or looping. There is a robust blade located at the base of the jaws which cuts through copper wire effortlessly.

Features

- ▶ Extremely versatile
- ▶ Multiple stripping guides
- ▶ Loop and bending holes
- ▶ Clamping nose
- ▶ Factory set
- ▶ Corrosion protected
- ▶ Comfort grip handles

Specification

- Function:** Multi Functional Wire Stripper
Material: Body: Middle Carbon Steel. Handles: PVC
Length: 165mm
Weight: 135g
Packaging: Blister Packet 95x15x215mm (WxHxL)



Product Description	Part No
Multi-Wire Cutter / Stripper 12-24 AWG	OPT+MWC
Multi-Wire Cutter / Stripper 16-26 AWG	OPT+MWC2
Multi-Wire Cutter / Stripper 22-30 AWG	OPT+MWC3

Precision Wire Cutters

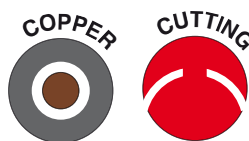
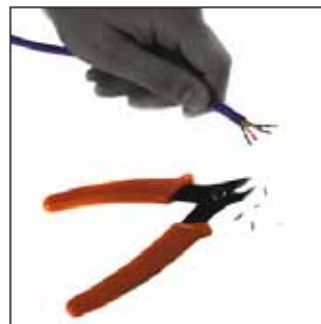
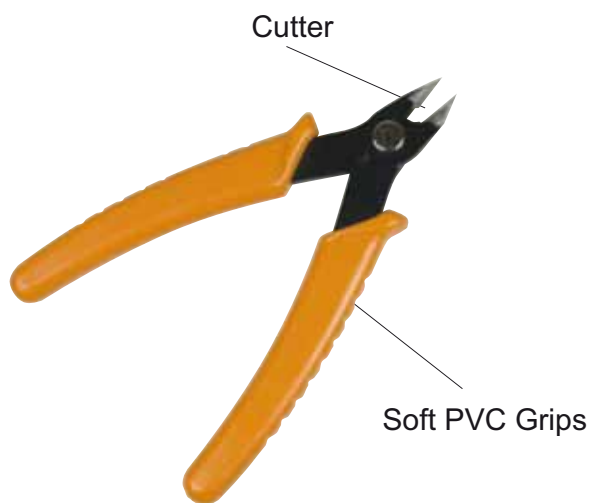
This strong and robust precision cutter will deliver a sheer end face finish when cutting multi-pair copper cables such as telephone or Cat5e/ Cat6. As a result this will assist a speedy reliable connection.

Features

- ▶ Strong and robust
- ▶ Ideal for precision work
- ▶ Perfect for copper based cables

Specification

Function: Flush Wire Cutter
Material: Body: Middle Carbon Steel. Handles: PVC
Length: 133mm
Weight: 135g
Packaging: Blister Packet 95x15x215mm (WxHxL)



Product Description	Part No
5" Copper Wire Cutter up to 18AWG	OPT+PWC

RJ45 Crimp Tool

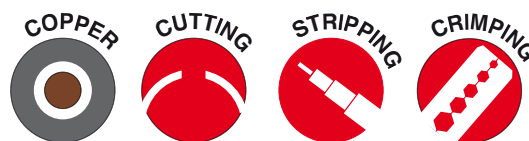
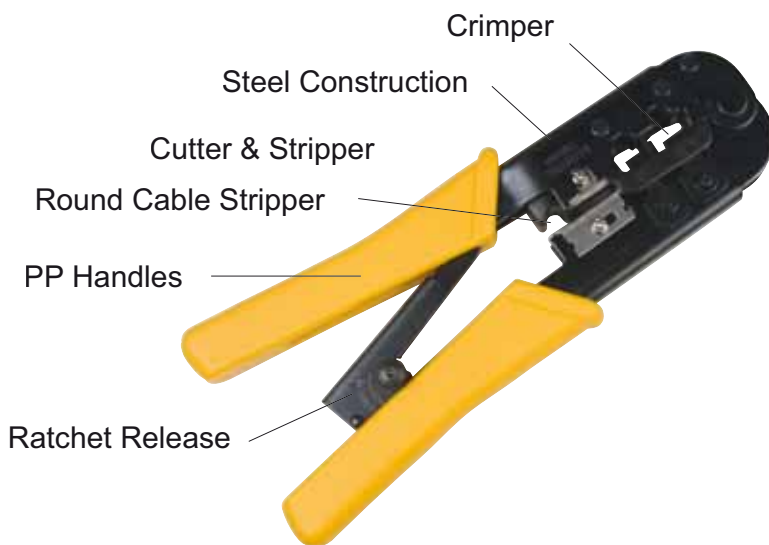
A compact, lightweight and durable tool which can be used to crimp RJ45, RJ11 and RJ12 plugs onto data cables. In addition to crimping it can also cut and strip data cables. It has a ratchet mechanism which ensures a consistent crimp, regardless of conditions. Very high quality.

Features

- ▶ Durable and lightweight
- ▶ Ratchet mechanism for consistent crimping
- ▶ Crimps RJ45, RJ11 and RJ12 plugs

Specification

- Function:** Crimps RJ45/RJ11/RJ12 Connectors
Material: Body: Hardened Steel. Handles: PP
Length: 147mm
Weight: 60g
Packaging: Blister Packet 115x30x265mm (WxHxL)



Product Description	Part No
RJ45/RJ11 Crimp Tool	OPT+RJCT



TERMINATION & SPLICING CONSUMABLES

- ▶ **Polishing Pad**
- ▶ **Polishing Plates**
- ▶ **Lapping Films**
- ▶ **Dispenser**
- ▶ **Syringes + Tips**
- ▶ **IPA**
- ▶ **Heatglue and Fastglue**
- ▶ **Polishing Machine**
- ▶ **Heat Curing Oven**
- ▶ **Ferrule Inserts**
- ▶ **Sin Bins**
- ▶ **Splice Protectors, Bridges & Cassettes**
- ▶ **Fibre Management Kits**

Polishing Plates

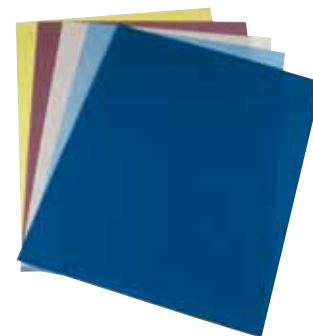
Polishing plates provide a steady, level surface for hand polishing connectors. For health and safety purposes both sizes have smooth bevelled edges. The A4 glass plates comes with non-slip padded feet for extra stability.



Product Description	Part No
Glass Polishing Plate 250mm x 300mm A4	OPTA4PP
Glass Polishing Plate 120mm x 150mm	OPTGPP

Polishing Films

Optronics manufacture a very high quality range of polishing films. The A4 size sheets, which are suited to applications where hand polishing is required, they come in standard packs of 100, are made from aluminium oxide which are available in the following grades 0.3µm, 1µm, 3µm, 5µm, 9µm, 12µm and 30µm.



Product Description	Colour	Part No
0.3µm Al ox. Lapping Film Sheets Pk 100	White	OPT03UMA4
1µm Al ox. Lapping Film Sheets Pk 100	Purple	OPT1UMA4
3µm Al ox. Lapping Film Sheets Pk 100	Pink	OPT3UMA4
5µm Al ox. Lapping Film Sheets Pk 100	Brown	OPT5UMA4
9µm Al ox. Lapping Film Sheets Pk 100	Blue	OPT9UMA4
12µm Al ox. Lapping Film Sheets Pk 100	Mustard Yellow	OPT12UMA4

Polishing Discs

Optronics also offer a superior range of Diamond polishing discs. They are ideally suited for polishing machines but can also be used for hand polishing applications. Available in packs of 25 as standard and measure 127mm (5") in diameter, in the following grades, 9µm, 5µm, 3µm, and 1µm.



Product Description	Part No
1µm Diamond Lapping Film 127mm Disk Pk25	OPT1UMDISC127
3µm Diamond Lapping Film 127mm Disk Pk25	OPT3UMDISC127
5µm Diamond Lapping Film 127mm Disk Pk25	OPT5UMDISC127
9µm Diamond Lapping Film 127mm Disk Pk25	OPT9UMDISC127
0.5µm Diamond Lapping Film 127mm Disk Pk25	OPT0.5MDISC127
Finishing Diamond Lapping Film 127mm Disk Pk25	FIDISC127

Lockable IPA Dispensers

Lockable dispensers are used to safely store IPA solution; the dispenser has a pump action lid so only the required amount is released. The dispenser also benefits from a lockable lid which ensures no leaks or spillages when not in use. The dispenser can contain 120ml



Product Description	Part No
Lockable Dispenser	MEN35702

Syringes

Syringes are used to apply epoxy adhesive into connectors before fibre is inserted. Syringes make this a quick and clean process. Available in 2ml or 5ml. (Tips not included - see below)



Product Description	Part No
1ml Syringe	BD300013
2ml Non-Sterile	BD300202
5ml Non-Sterile	BD301294

Syringe Tips

These 1” long ‘blunt’ stainless steel dispensing tips are available in a choice of three internal diameters. Permits precise syringe dispensing. ‘Blunt’ - medically safe.



Diameter	Guage	Colour	Part No
0.033”	18	Pink	TS18
0.023”	20	Yellow	TS20
0.016”	22	Black	TS22-1

IPA (Isopropyl Alcohol)

IPA solution (isopropyl alcohol) is used by the industry as part of the cleaning process for fibre optics. It can be used to clean optical instruments or if used in conjunction with lint free tissue can be used to clean fibre or connector end faces.

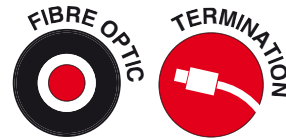


Product Description	Part No
IPA - 1 Litre Bottle	OPT-IPA

OPT-HEATGLUE

The Optronics is a two component, 100% solids, heat curing epoxy designed for high temperature applications. Although it will perform continuously at 200°C, it will also tolerate +300-400°C for several hours.

OPT-HEATGLUE has excellent resistance to many types of solvents and chemicals and is ideal for bonding fiber optics, glass, ceramics and most plastics. The OPT-HEATGLUE will cure in 15-30 minutes at 80 degrees or 2 minutes at 120 degrees.



Product Description	Part No
Heat Curing Epoxy	OPT-HEATGLUE

OPT-FASTGLUE

OPT-FASTGLUE is a superior fast cure adhesive designed for high strength terminations of fiber optic connectors. This black, low viscosity adhesive exhibits resistance to high temperatures, humidity and damp environments. Fully cured material produces a very high glass transition temperature, which reduces pistoning in adverse environmental conditions.

The OPT-FASTGLUE adhesive cures with the primer in two to three minutes thus allowing enough time to terminate connectors without the 'instant cure' which can occur with most Anaerobic or Cyanoacrylate adhesives. The low viscosity and black colour allow for easy handling and polishing.



Product Description	Part No
Fast Curing Adhesive	OPT-FASTGLUE

Polishing Machine

The Optronics PC20 Polishing machine has been designed specifically to meet the needs of small termination houses. It is a low cost and easy-to-use manufacturing solution that supports quick turnaround manufacturing.

Optronics provide a complete technical support service and can supply detailed instructions from cable preparation to final test. These processes have been tried tested and honed for over a decade and are the same as used in our facilities.

Features & Benefits

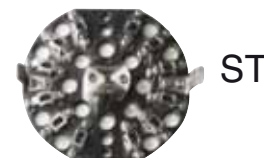
- ▶ Connectorised Polish Jigs for lower labour costs and faster turnaround.
- ▶ Unique Jig force mechanism and precision drive ensure uniform polish force.
- ▶ Calibration report for each Jig and machine.
- ▶ Position number printed on Jig aids process control.
- ▶ Technical support from assembly to final test.
- ▶ Onsite and remote training available.
- ▶ Calibration services available.
- ▶ 12 month warranty.

Specification

- ▶ **Dimensions:** L 390mm x W 240mm x H 580mm
- ▶ **Weight:** (approx) 28kg
- ▶ **Input Voltage:** 200 - 230 VAC
- ▶ **Polishing Capacity (max):** 12 terminations



Polishing Machine



ST



FC



SC



LC

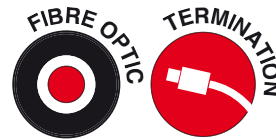
Product Description	Part No
Polishing Machine, UK Power Cord	PC20POLISHER-UK
Polishing Machine, EU Power Cord	PC20POLISHER-EU
ST/PC Polish Jig, 12 Position Polishing Plate	STPC12JIG
LC/PC Polish Jig, 12 Position Polishing Plate	LCPC12JIG
LC/APC Polish Jig, 12 Position Polishing Plate	LCAPC12JIG
FC/PC Polish Jig, 12 Position Polishing Plate	FCPC12JIG
FC/APC Polish Jig, 12 Position Polishing Plate	FCAPC12JIG
SC/PC Polish Jig, 12 Position Polishing Plate	SCPC12JIG
SC/APC Polish Jig, 8 Position Polishing Plate	SCAPC8JIG
Rubber Pad, Durometer Reading 60 4"/10mm	DUR060PAD110MM
Rubber Pad, Durometer Reading 70 4"/10mm	DUR070PAD110MM
Rubber Pad, Durometer Reading 80 4"/10mm	DUR080PAD110MM

NB : Other Polishing Jigs are available on special order.

Curing Oven

The Optronics curing oven is designed to uniformly cure the epoxy used in the termination of fibre connectors. A thermostat controls the temperature range within one degree Celsius across its 60 – 125 degrees Celsius range. This consistency allows the epoxy to be cured at lower temperatures over a longer period of time, resulting in better productivity and reduced connector loss, whilst virtually eliminating problems such as fibre cracking, lack of adhesion or brittle epoxy.

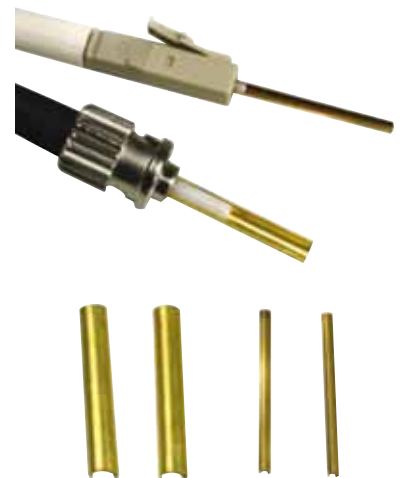
The multi-cure oven has a removable oven block that can accept up to 24 SC, ST, SMA or FC connectors. The block can be reversed to cure LC connectors



Product Description	Part No
24 Position Curing Oven	OVEN24

Ferrule Protection Tubes

Ferrule protection tubes are used when heat curing connectors. They are placed over the ferrule and are used to prevent the breakage of any protruding fibre. The tubes are reusable and are available for 2.5mm or 1.25mm ferrules.



Product Description	Part No
SC Inserts - 2.5mm Ferrules	SC-INSERTS/24
LC Inserts - 1.25mm Ferrules	LC-INSERTS/24

Sin Bins

Sin bins are designed for the safe disposal of used tissues, wipes, gloves, epoxy residue, syringes and fibre cut-offs.

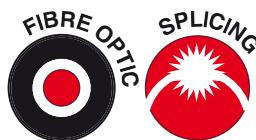


Product Description	Part No
645ml Sin Bin	SU07420
6 litre Sin Bin	SU02620



Splice Protectors

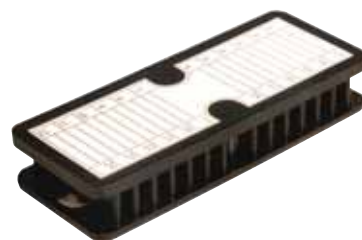
Splice protectors are used after a fusion splice has been performed. The protectors are slipped over the joint and heated using the oven located on the splicer. The polyethylene then shrinks to form a tight hold over the joint which is supported by a steel pin giving extra added strength and protection to the splice joint.



Product Description	Part No
60mm Splice Protectors	SPLICE60CLEAR
45mm Splice Protectors	SPLICE45CLEAR

Splice Bridges

Splice bridges are available as 12 way and can easily accommodate 2 rows of splice protectors (24 splices) as standard. They come with an adhesive strip for secure mounting and with a labelled lid for easy identification.



Product Description	Part No
12 Way Splice Bridge	SPLICEBRIDGE

Splice Cassettes

Splice cassettes provide an easy and simple means of storing optical fibre splices and excess fibre. The cassettes are stackable with a plastic covering available for the top cassette. Each cassette can hold up to 12 fibre splices.

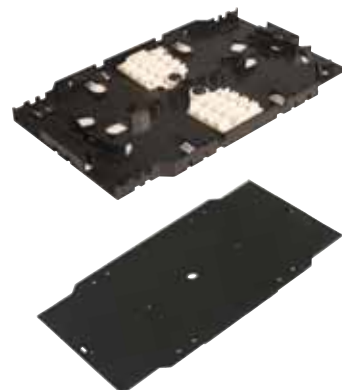


Product Description	Part No
Stackable Splice Cassette	SPLICECASSETTE12
Splice Cassette Base Unit	SPLICE12BASEUNIT

Universal Splice Tray

The Optronics universal splice tray is the perfect fibre management solution; each tray fits easily into any fibre enclosure such as patch panels, lockable wall boxes and can be stacked to accommodate higher fibre counts. Each tray is 80mm x 155mm x 7mm (WxLxD) supplied with a lid for added protection to the internal managed fibre. Each tray requires splice holders which are sold separately.

NOTE: Splice holders are not included please see below for part numbers



Product Description	Part No
Universal Splice Tray	SPLICETRAY
Splice Tray Lid	SPLICETRAYLID

(Splice holders are not included, see below for part numbers)

Splice Holders

Splice holders are required when using the Optronics universal splice tray, each holder can accommodate up to 8 splice protectors and each tray can house at least two splice holders giving the user the ability to manage up to 16 fibres in each tray. Also available are 12 way crimped splice holders, each tray has room for 2 holders which increases the splice trays' fibre capacity to 24.



SPLICEHOLDER1
Heat shrink only

SPLICEHOLDER2
Crimp splice only

Product Description	Part No
Splice Holder for Heat Shrink Splice	SPLICEHOLDER1
Splice Holder for Crimp Splice	SPLICEHOLDER2
Splice Tray Hinge	BUCKLE



BUCKLE

Fibre Management Kits

Fibre management kits are a versatile accessory for patch panels and wall boxes. They provide all the necessary items to professionally organize and manage the internal excess fibre. Each kit includes a cable gland, splice bridge, bunny clips and warning label.



Product Description	Part No
Fibre Management Kit	CABLEMANAGEMENT



FIBRE OPTIC CLEANING PRODUCTS

- ▶ **Lint Free Tissue**
- ▶ **IPA Wipes**
- ▶ **2.5mm Foam Buds**
- ▶ **1.25mm Micro fibre Sticks**
- ▶ **Air Duster**
- ▶ **Cleaning Cards**
- ▶ **Cassette Cleaner**
- ▶ **MPO Cleaner**

Lint Free Tissues

Lint free tissues are a versatile consumable for many applications. They are mainly used to clean bare fibre as part of the termination or splicing process.

The lint free characteristic allows them to be used for a multitude of other purposes such as cleaning optical equipment and preparing work surfaces.

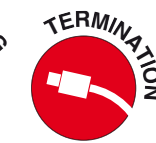
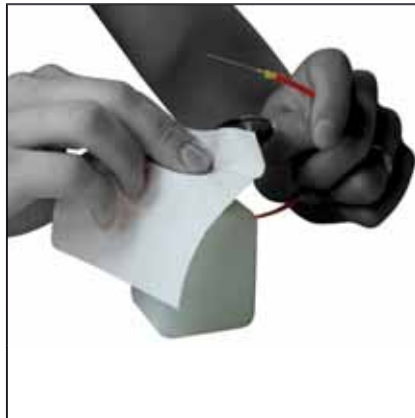


Features

- ▶ Super fast absorbency
- ▶ Can be used dry or with fluid
- ▶ Leaves no lint / fluff / dust particles
- ▶ Removes and absorbs dirt / grease / water / chemicals
- ▶ Tear resistant
- ▶ Strong non woven material

Specification

Material: 44% wood pile tissue & 56% Terylene
Size: 100mm x 100mm
Thickness: 0.05mm
Absorbency rate: 560%
Absorbency speed: 5 seconds
Class: 10000



Product Description	Pack Size	Part No
Lint Free Tissues	100	CLEANTISSUE/100
Lint Free Tissues	400	CLEANTISSUE/400

IPA Wipes

The Optronics pre-saturated wipes contain 99% pure IPA or isopropyl alcohol. The wipe material is made from a high quality, non-abrasive, lint free fabric.

They can efficiently remove dust, grease, oil, flux, soils and other contaminants and residues from substrates prior to bonding such as bare optical fibre during a termination or splicing process.

Features

- ▶ High absorbance and liquid retention
- ▶ Strong and tear proof
- ▶ Resistant to vigorous use
- ▶ Safe on plastics
- ▶ Rapid evaporation
- ▶ Zero residue
- ▶ Non-abrasive
- ▶ Lint free fabric
- ▶ Ideal for cleaning bare optical fibre

Specification

- ▶ Low lint saturated wipe
- ▶ 99% pure Isopropyl Alcohol
- ▶ Wipe Size: 157mm x 176mm
- ▶ Sachet Size: 63mm x 59mm x 5mm
- ▶ PH: Neutral
- ▶ Evaporation Rate: 1.9
- ▶ Highly flammable



Product Description	Pack Size	Part No
IPA Saturated Wipes	50pcs	CLEANWIPES
IPA Saturated Wipes	Single	CLEANWIPES/S

Foam Buds

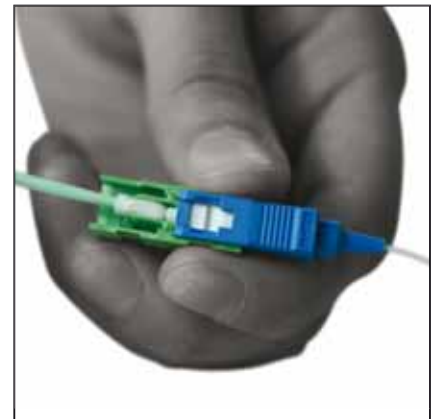
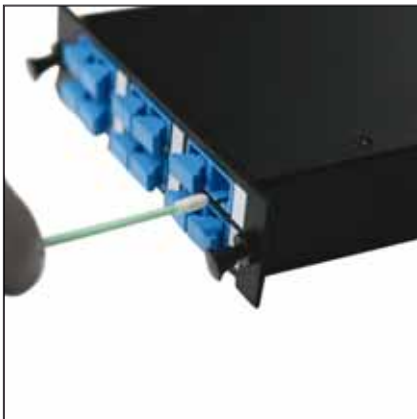
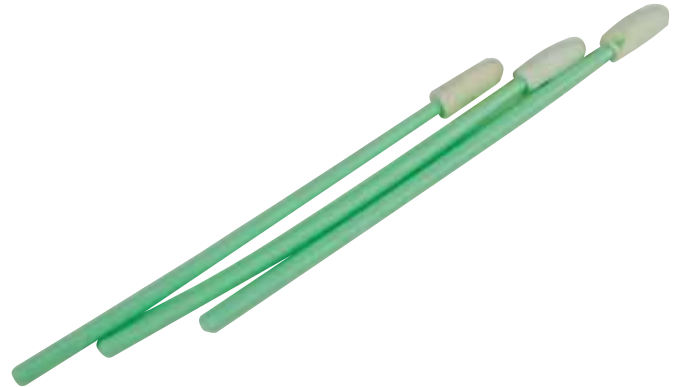
Foam buds are the ideal consumable for cleaning bulkheads after installation. They are used to clean the end faces of connectors that are installed from inside the enclosure, the snug fit from the foam head will also remove any contaminants found inside the adapter.

Features

- ▶ Fast absorbency
- ▶ Can be used dry or with fluid
- ▶ Efficient removal of contaminants
- ▶ Leaves no lint / fluff / dust particles
- ▶ Removes and absorbs dirt / grease / water / chemicals
- ▶ Works with all 2.5mm adapters: SC, SC2, FC, ST, DIN, D4, MT.

Specification

Material: Polyurethane
Size: 68mm x 2mm (body)
 9mm x 3mm (head)
Thickness: 0.05mm
Absorb speed: 6-8 seconds
Class: 10000



cross section above shows how the bud cleans the connector endface within the adaptor



Product Description	Pack Size	Part No
2.5mm Foam Buds	100	CLEANBUDS

Micro Fibre Sticks

Micro fibre sticks are the ideal consumable for cleaning **1.25mm bulkheads after installation**. They can be used to clean the end faces of connectors that are installed from inside the enclosure. Cleaning is achieved by inserting the micro fibre tip inside the adapter's aperture and twisting once.

The micro fibre material allows the user to clean installed connector end faces without scratching the surface and ensures a perfect clean first time.

Features

- ▶ Fast absorbency
- ▶ Can be used dry or with fluid
- ▶ Efficient removal of contaminants
- ▶ Leaves no lint / fluff / dust particles
- ▶ Removes and absorbs dirt / grease / water / chemicals
- ▶ Works with 1.25mm adapters: LC, MU

Specification

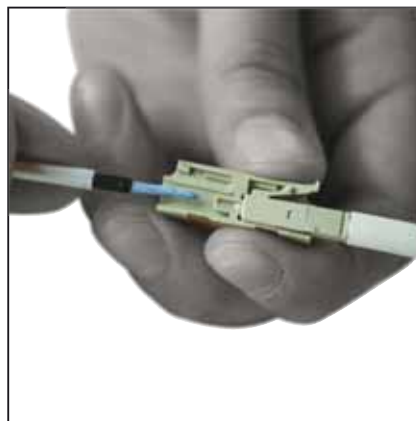
Material: Micro fibre, antistatic

Size: 10mm x 4mm (body)
13mm x 2mm (head)

Thickness: 0.05mm

Absorb speed: 6-8 seconds

Class: 10000



cross section above shows how the bud cleans the connector endface within the adaptor



Product Description	Pack Size	Part No
1.25mm Micro Fibre Sticks	100	CLEANSTICK

Air Duster

The Optronics air duster is a moisture free source of pure clean air, designed for sensitive applications where cleanliness is a necessity.

The air duster exerts a jet of pure clean air which is used to remove particles from the most inaccessible areas, whilst leaving no residue.

Features

- ▶ Ozone friendly
- ▶ Oil and moisture free
- ▶ Compact and portable
- ▶ Pure clean compressed air
- ▶ Removes particles from inaccessible areas
- ▶ Non flammable
- ▶ Can accelerate surface drying of low evaporating cleaning fluids

Specification

Ingredients: Dimethyl Ether / Tetrafluoroethane
Cubage: 300ml
Size: 235.7mm x 65mm
Operational Temperature: 10 – 60°C
Preservation Temperature: 4-60°C
Hazard Class: Class 2
Non flammable
ROHS Compliant



Product Description	Pack Size	Part No
Air Duster 300ml	1 x 300ml	CLEANAIR
Air Duster 300ml	12 x 300ml	CLEANAIR/12

Cleaning Cards

The Optronics cleaning cards are an excellent product ideal for cleaning single fibre connectors such as SC, ST, FC, LC and MU.

They are extremely compact, minimizing storage space, offering an ideal solution for field installers.



Product Description	Part No
Cleaning Cards	CLEANCARD

Cassette Cleaner

The CLEANREEL is excellent for cleaning fibre connector end faces. It will clean all standard 2.5mm and LC connectors. Once the button has been squeezed, a window opens to reveal a section of anti-static micro fibre cloth, connector end faces are dragged in one direction across the section to give a perfect clean.

Each cycle reveals a fresh section ready for cleaning which can last up to 400 cleans before a new reel is required.



Product Description	Part No
Cassette Cleaner	CLEANREEL

MPO Cleaner

The MPO cleaner is the perfect solution for cleaning MPO bulk heads and connectors. Bulkheads can be cleaned by inserting the tip of the cleaner and rotating the wheel which wipes a fine microfiber cloth across the end face of the connector.

A plastic clip can be attached which enables the user to then clean MPO connector endfaces. You can achieve up to 600 cleans.



Product Description	Part No
MPO Cleaner	CLEANMPO



FIBRE OPTIC INSPECTION

- ▶ **Hand Held Inspection Microscope**
- ▶ **Video Inspection Probe**

Hand Held Inspection Microscope

The OPT-FHS series hand-held fibre inspection microscopes are an ideal choice for checking field terminations for fibre end face quality.

A combination of durable construction, comfortable design, easy operation and quality optics ensures that this tool will enhance the performance of installation and maintenance staff.

The OPT-FHS scopes are designed with a professional grade coaxial illumination system. This maximizes the detail seen by the user, because the light travels along the same axis as the end face making even fine scratches and contaminants easily visible.

Laser Safety

The OPT-FHS series is equipped with a laser attenuation filter for your safety. Laser attenuation filters provide excellent eye protection. However, they are not a substitute for practicing good laser safety. Never attach or view a live fibre with any optical fibre microscope.

Features

- ▶ Safety filter for eye protection
- ▶ Coaxial illumination of connector end face
- ▶ High quality glass optics
- ▶ Anti-slip design, rugged body
- ▶ Long life battery
- ▶ Ergonomic design for comfortable and easy operation
- ▶ Screw on connector adaptors available
- ▶ 12 months warranty

Specification

Magnification: 200x or 400x
Size (HxWxD): 225 x 58 x 27.5mm
Weight: 0.63kg (with batteries)
Power: 3x AAA Alkaline batteries
LED Life: 100,000 hours
Battery Life: 32 hours typical use with alkaline batteries

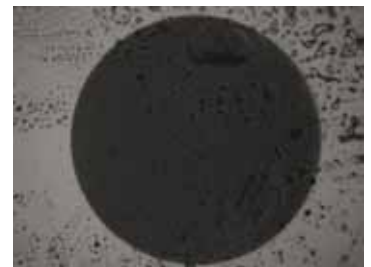


Image viewed through coaxial illumination above shows contaminant detail below shows clean connector



Product Description	Part No
200x Coaxial Illumination Hand Held Fibre Scope	OPT-FHS-200X
400x Coaxial Illumination Hand Held Fibre Scope	OPT-FHS-400X

Video Inspection Probe

The OPT-FIP-VD fibre inspection probe and Video Display is the perfect solution for anyone who is installing or maintaining fibre systems. The probe has a compact design enabling it to fit comfortably in the palm of the user's hand for easy operation.

The Probe features a focus wheel to establish a sharp image of the connector end faces. The probe has a magnification of 200x and uses coaxial illumination which increases the detail of contaminants shown. The hand held video display unit has a 2.36" LCD screen making it easier for the user to visually check fibre ends faces, quickly and efficiently. The display unit will accept SD memory cards so the operator can save snapshots or video's of contaminated or cleaned end faces.



Features

- ▶ 200x Magnification
- ▶ Coaxial illumination of connector end face
- ▶ High quality glass optics
- ▶ Compact design
- ▶ Rechargeable Li-Ion Batteries
- ▶ 2.36" LCD Display
- ▶ SD Card Reader
- ▶ SC, ST, FC, LC adaptors
- ▶ 2GB SD Memory Card
- ▶ 12 months warranty

Specification

Size (LxWxH): 140x75x27mm
Weight: 200g
Display: 2.36" LCD
Power: Internal Rechargeable Li-Ion Batteries (3.7V)
 External AC Charger
Capacity: External SD Card
Resolution: Record 320x240 MPEG4 / Snapshot 320x240 JPEG
System Format: Optional NTSC / PAL

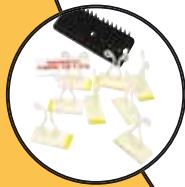


Image viewed through coaxial illumination above shows contaminant detail downloaded from SD card with time and date of image capture

below shows clean connector downloaded from SD card with time and date of image capture



Product Description	Part No
Inspection Probe 200x with Video Display Unit	OPT-FIP-VD



KITS

- ▶ **Cold Cure Fibre Termination**
- ▶ **Heat Cure Fibre Termination**
- ▶ **Copper Installation**
- ▶ **Cleaning Kit**
- ▶ **Service Engineers Tool Kit**

Cold Cure Fibre Termination

The Optronic cold cure fibre termination and inspection kit is an essential piece of kit for engineers who wish to terminate fibre using the cold cure method. This kit is suited for any engineer who is experienced at terminating fibre.

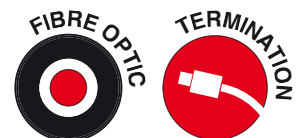
The kit contains the superior Optronic range of tools which includes the Optronic inspection scope. All items are packed into their own cut foam compartment to keep them from damage. The kit is presented in a virtually indestructible yet stylish case which is ideal for such fragile equipment.



Contents

Item	Part No	Page	Quantity
Inspection Scope (x200 mag)	OPT-FHS-200X	34	1
Fibre Optic Stripper (Tri Hole)	OPT-FOS	5	1
Kevlar Scissors	OPT-KS	6	1
Fibre Optic Crimp Tool	OPT-FOCT	7	1
Cable Ringing Tool	OPT-CS	4	1
Universal Stripping Tool	OPT+UTPS	11	1
Carbide Pen Scribe	OPT-CC	8	1
Fluid Dispenser	MEN3572	22	1
Cold Cure Epoxy	638+7649	N/A	
1.25mm Polishing Puck	OPT-LCPP	9	1
2.5mm Polishing Puck	OPT-UNIPP	9	1
1" Yellow Syringe Tips	TS20	22	5
2ml Syringe	BD300202	22	5
Sin Bin	SU07420	23	1
Lapping Film (0.3 / 1.0 / 5.0µm)	OPT03UMA4 OPT1UMA4 OPT5UMA4	21	15 (5 of each type)
Glass Polishing Plate	OPTA4PP	21	1
Lint Free Tissue	CLEANTISSUE/100	27	1 pack (100 sheets)

Product Description	Part No
Cold Cure Fibre Termination Kit	OPT- COLDKIT



Heat Cure Fibre Termination

The Optronics Heat curing fibre termination and inspection kit is another fundamental piece of kit for engineers who wish to terminate fibre using the heat cure method. This kit is suited for anyone who is experienced at terminating fibre in this manner.

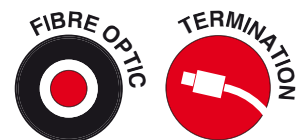
The kit includes top quality high temperature curing epoxy in conjunction with a curing oven, the kit also comes with the OptronicsTools inspection scope. All items are packed as standard in their own cut foam compartment to keep them safe from damage and are presented in a very robust, virtually indestructible yet stylish case which is ideal for such fragile equipment.



Contents

Item	Part No	Page	Quantity
Termination Oven	OVEN24	23	1
Inspection Scope (x200 mag)	OPT-FHS-200X	34	1
Fibre Optic Stripper (Tri hole)	OPT-FOS	5	1
Kevlar Scissors	OPT-KS	6	1
Fibre Optic Crimp Tool	OPT-FOCT	7	1
Cable Ringing Tool	OPT-CS	4	1
Universal Stripping Tool	OPT+UTPS	11	1
Carbide Pen Scribe	OPT-CC	8	1
Fluid Dispenser	MEN3572	22	1
Heat Cure Epoxy	RT153FC	N/A	5
1.25mm Polishing Puck	OPT-LCPP	9	1
2.5mm Polishing Puck	OPT-UNIPP	9	1
1" Yellow Syringe Tips	TS20	22	5
2ml Syringe	BD300202	22	5
Hospital Sin Bin	SU07420	23	1
Lapping Film (0.3/1.0/5.0µm)	OPT03UMA4 OPT1UMA4 OPT5UMA4	21	15 (5 of each type)
Glass Polishing Plate	OPTA4PP	21	1
Lint Free Tissue	CLEANTISSUE/100	27	1 pack (100 sheets)

Product Description	Part No
Heat Cure Fibre Termination Kits	OPT-HEATKIT



Copper Installation

The Optronics network installer kit is a must have for anyone who is terminating a copper network. It contains the essential tools needed for this area of the industry.

It is suited for all levels of users from an apprentice right up to an experienced engineer.

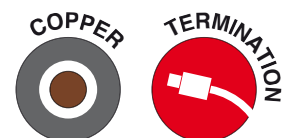
The kit contains the essential Optronics range of tools, they are packed into their own cut foam compartment and all items are contained in a very robust, virtually indestructible yet stylish case.



Contents

Item	Quantity
Network Cable Tester	1
Precision Wire Cutters	1
Wire Cutter and Stripper	1
Cable Cutter	1
UTP Stripper	1
Modular Crimp Tool	1
Non Impact Punch Down Tool with Krone Blade	1
Alternative Punch Down Blade for 66, 110/88	1
Cat5e RJ45 Plugs	50
Junior Hack Saw	1
5m Tape Measure	1
Cross Head Screwdriver	1
Flat Head Screwdriver	1
Label Markers + Dispenser	1
Cable ties	1

Product Description	Part No
Copper Installation Kit	OPT+INSTALLKIT



Cleaning Kit

The Optronics fibre optic cleaning kits combine all the best and most widely used products into one simple to use package.

They contain all the necessary products to competently and professionally clean fibre optic installations. With 3 levels of kits available it's easier to choose which kit is right for the user application.

- ▶ High quality products
- ▶ 3 levels depending on user application
- ▶ Products available individually for kit refill
- ▶ Provided in a soft carry case



Contents

Product Description	KIT N°1	KIT N°2	KIT N°3	Part No.
Lint Free Cleaning Tissues	100 pieces	100 pieces	100 pieces	CLEANTISSUE
2.5mm Foam Cleaning Buds	100 pieces	100 pieces	100 pieces	CLEANBUDS
1.25mm MicroFibre Cleaning Sticks	100 pieces	100 pieces	100 pieces	CLEANSTICK
IPA Cleaning Wipes	10 pieces	10 pieces	10 pieces	CLEANWIPES
FibreCare Connector Cleaning Fluid	1 piece	1 piece	1 piece	FCC03M
Pure Air Duster (UK Only)	--	1 piece	1 piece	CLEANAIR
FibreCare Fibre Preparation Fluid	1 piece	1 piece	1 piece	FPF03M
CletoP-S Type B Cassette Cleaner	--	1 piece	1 piece	14110611
Test Fibre Inspection Scope 200x	--	--	1 piece	OPT-FHS-200X-B
Soft Black Carry Case	1 piece	1 piece	1 piece	OPT-SOFTCASE-B

Product Description	Part No
Level One Cleaning Kit	CLEANKIT-L1
Level Two Cleaning Kit	CLEANKIT-L2
Level Three Cleaning Kit	CLEANKIT-L3



Service Engineers Tool Kit

Our fully comprehensive service tool kit is increasingly becoming the number one choice for engineers across Europe. Each kit is supplied in a robust, lockable ABS case. The ABS case features a removable tool board which increases the amount of tools that can be stored. Plastic compartments also allow storage of consumables such as connectors and screws.

The 247 piece starter kit is supplied with a varied range of tooling to support the majority of general service applications.

The service engineers' starter kit is available for complete customization, we use the starter kit as a basis, and products can be added or taken away at the request of the engineer to suit their specific need.

NOTE: Please contact your Optronics Supplier with details of your kit specification to receive a tailored quote.



Contents

Service Engineers Starter Kit Content List	
Lockable ABS Tool Case	Precision Wire Cutters
Retractable Knife	150mm Pro Adjustable Wrench
Junior Hack Saw	Coaxial Stripper
7.5m Heavy Duty Tape Measure	Cable Cutters
250mm Magnetic Spirit Level	Kevlar Scissors
4oz Pin Hammer	BNC & F Connector Crimp Tool
10pce Metric Hex Key Set	Cyclops Data Stripper
Small Torch	RJ45/11/12 Crimp Tool
7pce VDE Screwdriver Set	Punch Down Tool with Krone Blade
T8x75mm Torx Screwdriver	110 / 88 Blade for Punch Down Tool
T10x75mm Torx Screwdriver	Cat5e RJ45 Connector Plugs – 100 Pack
T15x100mm Torx Screwdriver	RJ45 Connector Boots – 100 Pack
T20x100mm Torx Screwdriver	Toner and Probe Set
T25x100mm Torx Screwdriver	Network Cable Tester
T27x100mm Torx Screwdriver	3pce 160mm Pliers Set
T30x100mm Torx Screwdriver	Anti-Static Wrist Strap
T40x100mm Torx Screwdriver	

Product Description	Part No
Starter Service Engineers Tool Kit	SERVICETOOLKIT

To compliment the Optronic range of tools, Optronic manufacture a range of high quality Test and Measurement equipment. For detailed information visit www.optronicstest.com.

OTDR

A user friendly multimode and singlemode OTDR specifically designed for testing and trouble-shooting enterprise, campus and access networks. Its robust construction and long battery life make it ideal for use in the field.

A single button push starts a test, making it simple to use for beginner or expert. The result is then shown as a trace or table of events in full colour, making the location of faults of fibre cable uncomplicated. By transferring the results to a USB memory stick or direct to PC via the USB port, easy management of the results can be achieved using the free software provided. Improved fibre testing capability can be achieved by adding the optional power meter, visual fault locator and connector end face inspection probe making the Optronic OTDR a truly versatile fibre optic test instrument.



Product Description	Part No
OptronicTest Multimode / Singlemode Quad OTDR	OPT-OTDR

ST Multimode Test Kit

The OPTM test kit is an inexpensive solution for testing multimode systems. The kit combines the OPTPM optical power meter and the OPTL S dual optical light source which operates at 850 and 1300nm. Its a great kit for beginners or network owners and can be used for testing premises networks, LAN and gigabit ethernet. Includes optical light source, optical power meter, protective rubber boots, adaptor cap, 50 and 62.5µm mandrels, users guide and carrying case.



Product Description	Part No
ST Test Kit	OPTMKIT

Quad Optical Light Source Kit

The OPTMS test kit combines the OPTPM AUTO optical power meter, OPTLS QUAD integrated LED and LASER light source and is ideally suited for testing fibre optic networks with singlemode and multimode cables.



Product Description	Part No
Quad Optical Light Source Kit	OPTMSKIT

Visual Fault Identifier

The OPTVFL is a compact but powerful visual fault locator designed to troubleshoot faults on fibre optic cables. Light generated by this unit will escape from sharp bends and breaks in jacketed or bare fibres, as well as poorly mated connectors. It can also identify faults in fibre optic jumper cables, distribution frames, patch panels, and splice trays.



Product Description	Part No
Visual Fault Identifier	OPTVFL

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