



OPTiFab
International
Fibre Optic Networking
Products and Accessories

PRODUCT CATALOGUE FIBRE

Vol. 3



ABOUT US

The Company

Optifab International is a leading UK fibre optic manufacturer and supplier based in Milton Keynes. We specialise in the manufacture of Fibre Optic Communication and Networking Products for bespoke and general optical applications.

Our products range from basic passive infrastructure to active categories, including FTTH (fibre to the home), which is the new forefront in home entertainment.

Optifab's current broad product range is built on fundamental technologies and specialist engineering personnel, whose experience spans over forty years. Our company ethos is to present clients with cost effective solutions, providing a high degree of reliability and offer outstanding performance characteristics.



We offer a comprehensive selection of fibre optic and fibre related products to clients in different industries and regions. Optifab also offers bespoke manufacturing services and we work together with our clients in providing specific solutions -meeting international standards.

We constantly screen the raw materials of our products to ensure the compliance with RoHS standards to serve our environment.

Quality Assurance

The control monitoring and administration of quality in respect of materials, plant etc is achieved by use of our QA administration system that has been designed to suit the current requirements of the IT and telecommunications industries.

Each item of material and plant that is purchased is assured of quality by ensuring that the item in question is procured from a responsible and reliable supplier accredited by the particular procedures laid down in the ISO 9001.



ISO Registered

Being ISO 9001 registered verifies that our production methods, procedures and processes are in accordance with the International Organisation for Standardisation; the preferred solution for millions of organisations worldwide. (Certificate no.: 50244)

You can do business with OPTiFab knowing that all aspects of how business is conducted is documented and in line with stringent, internationally recognised standards.

Northamptonshire Chamber of Commerce Member

Part of the British Chambers of Commerce (BCC) Accredited Chambers. The wide range of Chamber Membership benefits have been specifically designed to enable small and medium sized businesses to make the most of their potential. As part of your membership and our partnership approach there is a commitment policy that outlines what we'll do for you.





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10/100MBPS AND 10/100/1000 MBPS MEDIA CONVERTER, SC SIMPLEX OR DUPLEX



DESCRIPTION

This is an intelligent, adaptive and efficient ethernet converter device. It can implement data transmission between twisted pair electrical signals and optical signals, which are the two types of network connection media. This type of media converter can extend the transmission distance to 0.55 kilometres (multi mode) or 120 kilometres (single mode). Using a media converter is an economical solution to achieve a long distance transmission base on current status.

FEATURES

- » MDI/MDI-X auto negotiation
- » Supports 2U 19" system chassis, holding up to 14x standalone type media converter or 16pcs card based media converter
- » Hot pluggable & wall-mountable
- » Stable performance: more than 50,000 hours fault-free
- » Unique IC solution applied
- » Supports 10/100Mbps and 10/100/1000M full/half duplex, easy upgrades
- » Supports VLAN transmission
- » Conforms with safety code of FCC, CE and RoHS

DIN-RAIL MEDIA CONVERTER



DESCRIPTION

DIN-Rail Media Converters feature a clip which allows for easy and safe attachment and removal from a DIN-rail. This allows for multiple media converters to be arranged for effective data transfer in network environments. Available with fibre optic adapters and SFP transceiver connectivity.

FEATURES

- » Less time-delay in data transfer
- » Completely transparent to network protocols
- » Dedicated ASIC chip to determine data wire-speed transmission
- » Supports SFP optical transceiver
- » Operating temperature -20°C to +70°C
- » Supports transmission distance 0-120km
- » DIN-Rail mountable
- » Plastic IP30 protection

1.25GBPS SFP BI-DIRECTIONAL TRANSCEIVER, 10KM REACH



DESCRIPTION

The SFP-BIDI transceivers are high performance, cost effective modules supporting dual data-rate of 1.25Gbps/1.0625Gbps and 10km transmission distance with SMF. The transceiver consists of three sections: a FP laser transmitter, a PIN photo detector integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy class I laser safety requirements.

FEATURES

- » Dual data-rate of 1.25Gbps/1.0625Gbps operation
- » 1310nm FP laser transmitter and PIN photo detector for 10km transmission
- » Compliant with SFP MSA and SFF-8472 with simplex LC or SC receptacle
- » Digital diagnostic monitoring: Internal calibration or external calibration
- » Compatible with SONET OC-24-LR-1
- » Compatible with RoHS
- » +3.3V single power supply
- » Operating case temperature range of 0°C to +70°C (Commercial) or -40°C to +85°C (Industrial)

1.25GBPS CWDM SFP OPTICAL TRANSCEIVER, 80KM REACH



DESCRIPTION

The SFP transceivers are high performance, cost effective modules supporting data-rate of 1.25Gbps and 80km transmission distance with SMF. The transceiver consists of three sections: an uncooled CWDM DFB laser transmitter, a PIN photo detector integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy Class I laser safety requirements.

FEATURES

- » Data-rate of 1.25Gbps operation
- » 9 CWDM DFB wavelengths laser and PIN photo detector for 80km transmission
- » Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- » Digital diagnostic monitoring: Internal calibration or external calibration
- » Compatible with SONET OC-24-LR-1
- » Compatible with RoHS
- » +3.3V single power supply
- » Operating case temperature: Standard : 0 to +70°C

IFS 4-PORT 10/100 MEDIA CONVERTER

FEATURES

- » Slim-type IP-30 metal case
- » Operating temperature from -10°C~+60°C
- » DIN-rail and wall-mount design
- » Support to handle up to 1522 bytes packet size
- » 4-Port 10/100Base-TX RJ-45
- » 2-Port 100Base-FX interface for up to 2km (multi mode fibre 50/125µm)

DESCRIPTION

This is an entry-level industrial IFS Ethernet to Fibre Media Converter, specifically designed for stable operation in electrically harsh and climatically demanding environments. Industrially hardened for reliable operation, the slim-type unit offers practical and convenient performance. Available in a multi mode or single-mode interface, the media converter delivers a fibre transmit distance of 2km for link to remote backbone.



IFS 8-PORT COPPER PORTS + 24 MINI GBIC/SFP

FEATURES

- » 8-Port 10/100/1000Base-T Gigabit RJ-45
- » 24x mini-GBIC/SFP slots, shared with Port-1 to Port-8 and compatible with 100Base-FX SFP transceiver
- » 2x HDMI-like 5GbE stacking interfaces
- » RS-232 DB9 console interface for Switch basic management and setup
- » L-2 : Supports 255 VLAN's Groups
- » QoS : 4 priority queues on all switch ports
- » Multicast : Supports IGMP Snooping v1, v2 and v3, Querier mode support, Multicast VLAN Registration (MVR)
- » Hardware stacking up to 16 units and 384 gigabit ports

DESCRIPTION

This IFS Layer 2 managed gigabit switch is designed to handle extremely large amounts of data. These units function in a secure topology, linking to an enterprise backbone or high capacity network server. The powerful features of QoS and network security make this series an effective solution for data traffic control for ISPs and enterprises, including VoIP, video streaming and multicast applications. In addition, this switch is ideal for the core layer of campus, enterprise networks and the aggregation layer of IP metropolitan networks.



IFS GIGABIT ETHERNET TO SFP MEDIA CONVERTER

FEATURES

- » Compact size, plug-and-play installation
- » LED indicators for easy local network diagnostics
- » DIP-switch for LFP function (Enable / Disable) setting
- » Unified design for stand-alone or rack mount installation (MCR-R15 chassis)
- » 3-year warranty

DESCRIPTION

The IFS Gigabit Ethernet to SFP Media Converter is designed for the most demanding extended IP network applications offering the flexibility of SFP technology for Gigabit Ethernet transmission over optical fibre. The IFS MCR300-1T/1S converts 10/100/1000Base-T Ethernet on copper to 1000Base-LX/SX optical fibre via Small Form-format Pluggable (SFP) technology. This media converter can be custom configured to your exact system design specifications by utilising a variety of IFS SFP Mini-GBIC modules.



IFS MINI-GBIC SFP TRANSCEIVERS

FEATURES

- » Plug-and-play capability for easy installation
- » Hot-swappable
- » Low power dissipation
- » Data rates of 100Mbps or 1.25Gbps
- » Single mode or multi mode fibre
- » 1 or 2 fibre configurations
- » RJ-45 1.25Gbps SFP available
- » Mini-GBIC Interface compliant
- » Multisource Agreement (MSA) compliant
- » Class 1 laser safety standard IEC 60825 compliance
- » 3-year warranty

DESCRIPTION

The IFS family of Small Form-factor Pluggable (SFP) Transceiver Modules are designed for high performance integrated duplex data transmission over single mode or multi mode optical fibre. They are compliant with the industry's SFP Multisource Agreement (MSA) standard and offer the ability to enable the SFP ports on any Ethernet equipment which has a built-in SFP Mini-GBIC interface. These modules are hot-swappable without any interruption of the host equipment operation.



ATTENUATORS

FIXED ATTENUATORS



DESCRIPTION

OPTiFab Fixed Attenuators are designed for the purpose of reducing optical power levels in a network to match the receiver's requirements. Our range of high performance attenuators are designed to give accurate attenuation over a wide range of wavelengths. Our attenuators are presented with a plug type configuration; allowing for ease of use and functionality. Straight out of the box, these attenuators allow for direct connection to a fibre patch cord, for insertion into the relevant OPTiFab adapter.

FEATURES

- » Fixed attenuation values of 1, 2, 3, 5, 10, 15 and 20 dB (others available)
- » Accurate and tested attenuation
- » Available with ST, SC, LC, FC and MU packages
- » Flat response over all wavelengths
- » Plug-in type package
- » Environmentally stable
- » Complies with Telcordia requirement GR-910-CORE



INLINE VARIABLE OPTICAL ATTENUATOR



DESCRIPTION

The OPTiFab in-line variable optical attenuator (VOA) is used for precisely balancing the signal strengths in fibre circuits, or balancing an optical signal when evaluating the dynamic range of the measurement system.

FEATURES

- » Compact size, Low insertion loss
- » Wide attenuation range
- » High precision and stable attenuation
- » Optical communication systems test
- » Fibre component test
- » Optics lab use

LC LOOP-BACK ATTENUATOR CONNECTOR



DESCRIPTION

Loop-back modules are designed for the purpose of testing the transmission capability and receiver sensitivity in a network. A simple and effective testing solution, available in our complete duplex range of connectors.

This attenuator is designed for LC systems.

FEATURES

- » Common and proven technologies combined in the LC connector system
- » System delivers a high-performance and easy-to-implement fibre optic interface
- » Optimise insertion loss performance
- » Provide unidirectional or bidirectional communication
- » Tested to Telcordia GR-326 and Compliant to TIA/EIA-604-10A (FOCIS-10)

CONNECTORS AND ADAPTERS

E2000 CONNECTOR and ADAPTER

FEATURES

- » PC, UPC and APC polishing options
- » Simplex and duplex configuration
- » Easy and safe insertion and removal
- » Robust construction
- » Excellent choice for single mode applications
- » Colours available: beige, blue and green
- » 900µm, 2mm and 3mm diameter boot

DESCRIPTION

The OPTiFab E2000 connector and adapter is designed as a premium solution with superior performance characteristics. The unique latch design will open automatically when pushed into the adapter, and the clip ensures the connector remains in position.



FC CONNECTOR and ADAPTER

FEATURES

- » PC, UPC and APC polishing options
- » Simplex configuration
- » Bayonet style spring
- » Stainless construction
- » 900µm, 2mm and 3mm diameter boot

DESCRIPTION

The OPTiFab FC (Fixed Connection) is a threaded cylindrical connector. It is designed to hold secure and remain stable in high-vibration environments and is used in most areas of a fibre network. Constructed from nickel plated metal and features a keyway for correct alignment.



LC CONNECTOR and ADAPTER

FEATURES

- » PC, UPC and APC polishing options
- » Simplex and duplex configuration
- » Easy and safe insertion and removal
- » Robust construction
- » Excellent choice for single mode applications
- » Colours available: beige, blue and green
- » 900µm, 2mm and 3mm diameter boot

DESCRIPTION

The OPTiFab LC (Lucent Connector) is a small form-factor connector, characterised by its small size, 1.25mm ferrule and insertion clip. Its 1.25mm ferrule is half the size of the ST connector and is often used in single mode applications due to its fantastic performance.



CONNECTORS AND ADAPTERS

MTP® (USCONEC) CONNECTOR and ADAPTER



DESCRIPTION

MTP® (USConec) connectors provide quick connection for up to 24 optical fibres. Connection integrity is provided by adapter latches which are locked into place on the connector plug by a spring loaded sliding mechanism. Precision alignment is achieved with patented guide pins combined with the tightly controlled guide pin holes on MT ferrules. Removable housings allow for quick change of gender, ferrule cleaning, interferometry or connector re-polishing.

FEATURES

- » Patented floating ferrule design ensures fibre contact integrity
- » Terminates ribbon fibre or loose individual fibres
- » Designed for low loss and standard loss SM and MM applications
- » Patented elliptical guide pin tip to minimise ferrule debris
- » Ruggedised round cable, oval cable and bare ribbon options available
- » Compatible with OPTiFab MT ferrules in fibre counts 4-24
- » Colour coded housings available to differentiate fibre type, polish type and/or connector grade
- » Housing is removable for quick change of pin clamps and easy ferrule cleaning/re-polishing
- » Alignment achieved with high precision guide pins
- » No-epoxy housing design
- » Family of bulkhead adapters available
- » Keyed/coloured for security or Network Segregating available



MTRJ CONNECTOR and ADAPTER



DESCRIPTION

The OPTiFab MTRJ (Mechanical Transfer Registered Jack) is a popular small-form connector. It features two fibres mated together that align with the adapter with the help of keyway orientation and are secured with a clip. Popularised by its low cost and small size.

FEATURES

- » Factory-assembled guide pin
- » Elliptical guide pin tip
- » Small interface
- » Easy installation with precise alignment
- » Improves ferrule durability
- » Doubles the number of fibre ports



MU CONNECTOR and ADAPTER



DESCRIPTION

The OPTiFab MU is a small form factor SC. It has the same push/pull style, but can fit 2 channels in the same Footprint of a single SC. The MU Connector looks a miniature SC with a 1.25mm ferrule.

FEATURES

- » PC, UPC and APC polishing options
- » Simplex and Duplex configuration
- » Easy and safe insertion and removal
- » Robust construction, small form factor
- » Excellent choice for single mode applications
- » Many colours available
- » 900µm, 2mm and 3mm diameter boot



CONNECTORS AND ADAPTERS

SC CONNECTOR and ADAPTER

FEATURES

- » PC, UPC and APC polishing options
- » Simplex and Duplex configuration
- » Easy and safe insertion and removal
- » Robust construction
- » Excellent choice for single mode applications
- » Colours available: beige, blue and green
- » 900µm, 2mm and 3mm diameter boot

DESCRIPTION

The OPTiFab SC (Subscriber Connector) is a low cost and durable snap-in, push-pull style connector, commonly utilised in newer network applications. It is characterised by its square housing, 2.5mm ferrule and features a keyway for correct insertion purposes.



ST CONNECTOR and ADAPTER

FEATURES

- » PC, UPC and APC polishing options
- » Simplex configuration
- » Bayonet style spring
- » Stainless construction
- » 900µm, 2mm and 3mm diameter boot

DESCRIPTION

The OPTiFab ST (Straight Tip) is a quick release, bayonet style connector. Its cylindrical design features a keyed ferrule for correct insertion purposes, and a metal spring to ensure a secure fit into the keyed ST screw-in adapter. A twist bayonet ensures a secure connection.



Also Available
Plastic body ST connector



SPECIAL CONNECTORS

LC MINI-CLIP CONNECTOR

FEATURES

- » Minimised physical footprint, saving space and increasing energy efficiency; minimizing cable's impact on air flow
- » Higher-density solution allows better cable management and easier maintenance

DESCRIPTION

MINI-LC duplex connectors use industry-standard LC connectors with a reduced centre-line pitch from 6.25mm to 5.25mm, achieved with a specially designed duplexing clip. MINI-LC duplex connectors are available in single mode and multi mode versions with 2mm or 3mm cable.



SPECIAL CONNECTORS

HARSH ENVIRONMENT CONNECTORS & ADAPTERS



DESCRIPTION

The harsh environment OPTi Plug and receptacle assemblies are available in 2 or 4 fibre configurations. Based on the N Type RF connector style, this optical connector system provides superior optical performance using LC style 1.25mm ceramic ferrules. The sealed metal housing provides external environmental, ingress/contamination protection for both the optical interface and enclosure system. Our assemblies are available in varying lengths and can be inter-terminated with most industry standard connectors. It can also be terminated with indoor style zip-cord or an outdoor cable, making it suitable for both in-line and enclosure mounted/aerial applications.

FEATURES

- » Available in single mode or multi mode fibres
- » Available in 2 or 4 fibre configurations
- » Meets IP67 specifications
- » N Type connector housing
- » Threaded mating style
- » Easy to install
- » Metal housing provides improved EMI protection
- » RoHS compliant

FIELD INSTALLABLE CONNECTORS

LC FIELD INSTALLABLE CONNECTOR



DESCRIPTION

An LC Field Installable Connector (FIC) is a pre-polished and pre-assembled connector that holds a fibre in place and can be installed within 2 minutes. The LC type is a small design with great details and high technology. All the parts are made from Ultem material to withstand high temperature and external shocks. It is available in several configurations to fit many different applications for single mode, multi mode and APC applications. The APC connector is designed to provide superior return loss without sacrificing insertion loss.

FEATURES

- » No epoxy or polishing required
- » Only two pre-assembled parts
- » Quick and easy fibre termination
- » High success rate of connections
- » Featuring a unique integral v-groove release key for increased efficiency

SC FIELD INSTALLABLE CONNECTOR



DESCRIPTION

An SC field installable connector (FIC) is the most widely used fibre optic connector in FTTx that does not need epoxy or polishing. It enables fast and on-site installation of 250µm, 900µm, 3.0mm and 2.0mm x 3.0mm cable type connectors, even when the user has no access to power.

Two or three pieces of the pre-assembled and factory terminated connectors can be installed within 2 minutes using simple tools and can be recycled several times. It accommodates a reliable and durable optical network especially suitable for advanced fibre optic systems requiring exceptional stability and low loss.

FEATURES

- » No epoxy or polishing required
- » Only two pre-assembled parts
- » Quick and easy fibre termination
- » High success rate of connections
- » Featuring a unique integral v-groove release key for increased efficiency

ST FIELD INSTALLABLE CONNECTOR



DESCRIPTION

An ST type FIC is a widely used fibre optic connector in FTTx that does not need epoxy or polishing. The pre-assembled and factory terminated connectors can be installed within 2 minutes using simple tools and can be recycled several times. The ST type is a small design with great details and high technology.

All the parts are made from Ultem to withstand high temperatures and external shocks. It is available in several configurations to fit many different applications for single mode, multi mode and APC applications. The APC connector is designed to provide superior return loss without sacrificing insertion loss.

FEATURES

- » No epoxy or polishing required
- » Only two pre-assembled parts
- » Quick and easy fibre termination
- » High success rate of connections
- » Featuring a unique integral v-groove release key for increased efficiency

SPECIAL ADAPTERS

HYBRID ADAPTERS

FEATURES

- » Compliant with: ANSI, TIA/EIA, and IEC standards
- » Metal or plastic construction
- » PC/APC/UPC optional
- » High precision alignment
- » Low insertion loss, high return loss
- » Good compatibility

DESCRIPTION

Hybrid adapters provide a solution for applications where two different connector types are used. Available with a variety of connector type options; choice of housing material, simplex or duplex configurations; and single mode & multi mode fibre types.



METAL ADAPTERS

FEATURES

- » Compliant with: ANSI, TIA/EIA, and IEC standards
- » Metal construction
- » PC/APC/UPC optional
- » High precision alignment
- » Low insertion loss, high return loss
- » Good compatibility

DESCRIPTION

OPTiFab understands each customer may require unique specifications for their networking needs. We are happy to offer bespoke adapters in all configurations using different materials, such as metal for increased strength and durability. Call today for more information on our entire bespoke connector and adapter range. Metal adapters are significantly stronger and more durable than standard plastic adapters.



KEYSTONE ADAPTERS

FEATURES

- » Supports optical applications in bringing fibre to the desktop for both multi mode and single mode
- » Viable solution for high speed data transmission and broadband internet
- » Small Form Factor (SFF) adapter reduces space requirements by 50%
- » Compatible with all IC107 faceplates, inserts, surface mount boxes, and blank patch panels
- » Compatible with all IC108 furniture faceplates, bezels, and surface mount boxes
- » UL listed

DESCRIPTION

OPTiFab fibre keystone modules support optical applications in bringing fibre to the desktop for both multi mode and single mode fibre installations. They are designed to snap directly into standard keystone faceplates, inserts, surface mount boxes, and blank patch panels.



SHUTTERED ADAPTERS

FEATURES

- » Safety cap to prevent eye damage
- » Less prone to dust collection
- » High quality spring latch

DESCRIPTION

OPTiFab's shuttered adapter range provides a combination of safety in FTTH applications and other applications such as telecommunication networks. The shuttered design ensures the adapter remains dust resistant, increasing reliability and performance. The slip-on retractable cover acts as enhanced eye protection.



SAFE LOCK SC ADAPTERS

FEATURES

- » Patented SC adapter Safe Lock. (2.0kgf minimum release force)
- » Unlock tool available for high density application
- » Enhanced housing and hook by one piece moulding
- » Excellent repeat IL variation built in by mechanical design
- » Innovative mounting clip design compatible with panel thickness from 1.3mm~1.65mm
- » Compatible with SC adapter internal shutter clip
- » Compliant with RoHS/REACH and UL 94-V0

DESCRIPTION

OPTiFab Safe Lock SC simplex and duplex adapters are an innovative solution for advanced data centre and FTTH applications. The unique adapter lock mechanism is designed for preventing accidental fibre disconnection of important channel links. The renewed SC adapter housing is moulded into one piece, with more enhanced precision, structure, and reliable performance.



PATCH CORDS SINGLE MODE

DESCRIPTION

Single mode optical fibre is characterised by its narrow modal dispersion (8.3 to 10 micron diameter), better retaining fidelity of light pulses and exhibiting higher bandwidth than multi mode. As a result, single mode fibre is ideal for long distance applications.

All patch cords available using G657A bend-insensitive fibre on request.

FEATURES

- » Choice of sheath colours and lengths
- » Robust construction
- » LSZH cable jacket
- » Supplied with test certificate and optical results

E2000 PATCH CORD - OS2



FC PATCH CORD - OS2



LC PATCH CORD - OS2



MPO/MTP® PATCH CORD - OS2



MTRJ PATCH CORD - OS2



MU PATCH CORD - OS2



SC PATCH CORD - OS2



ST PATCH CORD - OS2



PATCH CORDS MULTI MODE

FEATURES

- » Choice of sheath colours and lengths
- » Robust construction
- » LSZH cable jacket
- » Supplied with test certificate and optical results

DESCRIPTION

Multi mode optical fibre is suitable for communication over short distances; such as in an office building or school. Multi mode fibre equipment is cheaper than single mode and due to its high capacity and reliability, multi mode fibre is ideal for backbone applications.

All patch cords available using bend-insensitive fibre on request.

E2000 PATCH CORD - OM1/OM2/OM3/OM4



FC PATCH CORD - OM1/OM2/OM3/OM4



LC PATCH CORD - OM1/OM2/OM3/OM4



MPO/MTP® PATCH CORD - OM1/OM2/OM3/OM4



MTRJ PATCH CORD - OM1/OM2/OM3/OM4



MU PATCH CORD - OM1/OM2/OM3/OM4



SC PATCH CORD - OM1/OM2/OM3/OM4



ST PATCH CORD - OM1/OM2/OM3/OM4



SPECIAL PATCH CORDS

STEEL TAPE ARMOURED PATCH CORD



DESCRIPTION

Armoured patch cords are used in areas or applications where additional safeguards are required to ensure added cable protection. The stainless steel armour construction is designed to provide strength, but remains flexible enough for interconnection and routing.

FEATURES

- » Good mechanical property and environment properties
- » Flame resistant performance
- » Strong, durable and agile
- » Satisfies varied requests of markets and customers

MODE CONDITIONING PATCH CORD



DESCRIPTION

OPTiFab mode conditioning patch cords are designed for long wave Gigabit Ethernet (1310nm/1000 base-LX) network applications where both single mode and multi mode interconnects are required. The connection between the MM and SM fibre is slightly offset; resulting in the mode conditioning patch cord removing transmission-distance limiting Differential Mode Delay (DMD) that is present in MM fibre.

FEATURES

- » Connector options: E2000, FC, LC, MTRJ, SC and ST.
- » Stable and permanent core offset
- » Low-loss connections
- » Solution to DMD effects

QUADPLEX™ PATCH CORD



DESCRIPTION

OPTiFab Quadplex™ patch cords are the perfect solution for quad-core applications. Available in both single-mode and multi mode fibre types, the OPTiFab Quadplex™ Patch cord is made to the same high standards and specifications as our simplex and duplex patch cords.

FEATURES

- » Available with single mode and multi mode fibre
- » Compatible with ALL OPTiFab Connectors
- » Connectors clearly labelled
- » Colour coded boots available
- » Choice of cable colour and lengths

IP68 HARSH ENVIRONMENT PATCH CORD



DESCRIPTION

These assemblies are designed for waterproof applications using standard duplex LC connectors which are widely used in FTTA, FTTH and other harsh environment applications.

FEATURES

- » Standard LC connector, well connected with standard LC adapter
- » Available in single mode and multi mode fibre types
- » IP68 protection; high pressure water submission, salt-mist proof, humidity proof, dust proof
- » Aluminium housing, compact design

APC CONNECTOR (8 DEGREE AND 9 DEGREE) PATCH CORD



DESCRIPTION

APC stands for Angle-polished Physical Contact (8 degrees angle ferrule cut) for very high return loss (>65dB) and represents one of the best ways of polishing for fibre ferrules, assuring a return attenuation greater than 50dB for single mode connections. We also offer 9 degree angled ferrule cut and can denote this with an alternative boot colour (see image).

FEATURES

- » Typical insertion loss: 0.2 dB
- » Return loss > 65 dB
- » Fibre jacket: Various sizes and colours available
- » Each cable assembly is manually tested, verified, sealed and labelled

PIGTAILS SINGLE MODE

FEATURES

- » Connector options: E2000, FC, LC, MPO/MTP®, MTRJ, MU, SC, ST and APC types
- » Choice of fibre colour and length
- » Each pigtail supplied with test certificate and optical results

DESCRIPTION

Single mode optical fibre is characterised by its narrow modal dispersion (8.3 to 10 micron diameter); better retaining fidelity of light pulses and exhibiting higher bandwidth than multi mode. As a result, single mode fibre is ideal for long distance applications.

Pigtails available in 6 and 12 colour packs.

All pigtails available using G657A bend-insensitive fibre on request.

E2000 PIGTAIL - OS2



FC PIGTAIL - OS2



LC PIGTAIL - OS2



MPO/MTP® PIGTAIL - OS2



MTRJ PIGTAIL - OS2



MU PIGTAIL - OS2



SC PIGTAIL - OS2



ST PIGTAIL - OS2



PIGTAILS MULTIMODE

DESCRIPTION

Multi mode optical fibre is suitable for communication over short distances; such as in an office building or school. Multi mode fibre equipment is cheaper than single mode, and due to its high capacity and reliability, multi mode fibre is ideal for backbone applications.

Pigtails available in 6 and 12 colour packs.

All pigtails available using bend-insensitive fibre on request.

FEATURES

- » Connector options: E2000, FC, LC, MPO/MTP®, MTRJ, MU, SC, ST and APC types
- » Choice of fibre colour and length
- » Each pigtail supplied with test certificate and optical results

E2000 PIGTAIL - OM1/OM2/OM3/OM4



FC PIGTAIL - OM1/OM2/OM3/OM4



LC PIGTAIL - OM1/OM2/OM3/OM4



MPO/MTP® PIGTAIL - OM1/OM2/OM3/OM4



MTRJ PIGTAIL - OM1/OM2/OM3/OM4



MU PIGTAIL - OM1/OM2/OM3/OM4



SC PIGTAIL - OM1/OM2/OM3/OM4



ST PIGTAIL - OM1/OM2/OM3/OM4



MPO/MTP® SOLUTIONS

MPO/MTP® RUGGEDISED FAN OUT

FEATURES

- » MPO/MTP® fan-out to various connector: LC/SC
- » Utilises round micro cable
- » Precision multi-fibre MT ferrule
- » Push-pull latching
- » Male and female connector type
- » OS2/OM1/OM2/OM3/OM4 fibre types available
- » JIS C5982 & IEC 1754-7 standard compliant ITU G.657B

DESCRIPTION

The high density MPO/MTP® solution allows for the simple termination of the fibre backbone. Once installed, the backbone needs to have the correct interface to suit the needs of the network hardware. Whilst the cable and connectors used in OPTiFab's optical fibre patch cords are the best available, it is our expertise in production that sets our products apart.



MPO/MTP® 900 MICRON FAN OUT

FEATURES

- » MPO/MTP® fan-out to various connector: LC/SC
- » Colour coded fibres
- » Precision multi-fibre MT ferrule
- » Push-pull latching
- » Male and female connector type
- » OS2/OM1/OM2/OM3/OM4 fibre types available
- » JIS C5982 & IEC 1754-7 standard compliant ITU G.657B

DESCRIPTION

The high density MPO/MTP® solution allows for the simple termination of the fibre backbone. Once installed, the backbone needs to have the correct interface to suit the needs of the network hardware. Whilst the cable and connectors used in OPTiFab's optical fibre patch cords are the best available, it is our expertise in production that sets our products apart.

The MPO 900 micron fan out is perfect for use inside patch panels.



MTP® CONNECTOR (USCONEC)

FEATURES

- » Patented floating ferrule design ensures fibre contact integrity
- » Terminates ribbon fibre or loose individual fibres
- » Designed for low loss and standard loss SM and MM applications
- » Housing is removable for quick change of pin clamps and easy ferrule cleaning / re-polishing
- » Alignment achieved with high precision guide pins
- » No-epoxy housing design
- » Family of bulkhead adapters available
- » Keyed/coloured for security or Network Segregating

DESCRIPTION

MTP® (USConec) connectors provide quick connection for up to 24 optical fibres. Connection integrity is provided by adapter latches which are locked into place on the connector plug by a spring loaded sliding mechanism. Precision alignment is achieved with patented guide pins combined with the tightly controlled guide pin holes on MT ferrules. Removable housings allow for quick change of gender, ferrule cleaning, interferometry or connector re-polishing



Important!

Polarity is important in an MPO/MTP® network. Please see the guide illustration on the following page to determine polarity needed.

MPO/MTP® SOLUTIONS

MPO/MTP® CASSETTE



DESCRIPTION

Ideal for connecting multi-fibre MPO/MTP® trunk cables and splitting them out to various patch cables. Each cassette comes fully populated internally with pre-terminated and tested MPO/MTP® breakout cables, and are designed for fast and easy field installation with minimal training. Available in multi mode OM1(62.5/125), OM2 (50/125), OM3 (50/125), OM4 (50/125) and single mode OS2 (9/125) models

(Adapters not included but available on request)

FEATURES

- » LC duplex flangeless; SC simplex
- » Pre-terminated MPO/MTP® cables are connected directly to the cassettes
- » Supplied with fibre-management kit
- » RoHS Compliant



MPO/MTP® 3 CASSETTE PATCH PANEL



DESCRIPTION

Rack mount 19-inch fibre optic patch panels provide efficient and easy management of fibre optic cables in the rack or cabinet. Constructed from cold rolled 16-gauge steel, with a variety of powder coated finishes and available in fixed and sliding configurations. Also available in different heights and with a variety of connector options.

FEATURES

- » LC duplex flangeless; SC simplex
- » Very high density panel, supports 36 Duplex LC adapters (72-fibres) in 1U of rack space
- » Simple assembly and installation: the cassettes are mounted to the panel separately
- » Pre-terminated MPO/MTP® cables are connected directly to the cassettes
- » Supplied with fibre-management kit
- » RoHS compliant

MPO/MTP® 13 CASSETTE 3U RACK



DESCRIPTION

Rack mount 19-inch 3U MPO/ MTP® cassette holder features room for 13 vertically stacked MPO/MTP® cassettes. If cage nuts are required please see page 27 in our fibre management section.

FEATURES

- » Room for up to 13 MPO/MTP® cassettes
- » 3U height
- » Cable management in rear for easy organisation of fibre cable
- » Constructed from cold rolled steel
- » Durable powder coated finish

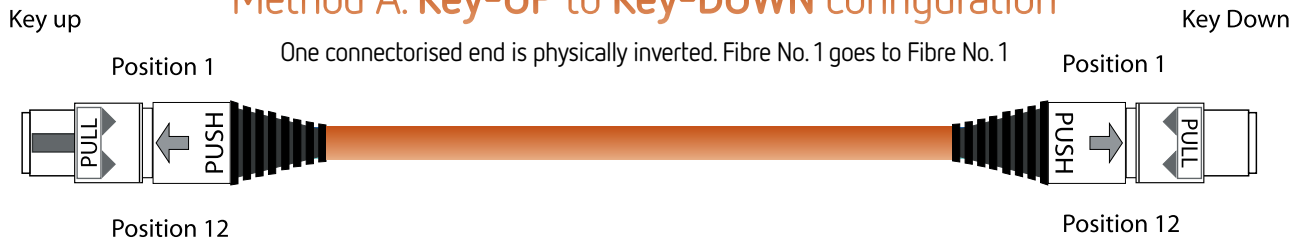


MPO/MTP® POLARITY OPTIONS

The use of pre terminated fibre assemblies and cassettes is growing, and the deployment of systems with speeds up to and beyond 100 Gbits/second are on the horizon for many users. As a result, the issue of maintaining polarity in parallel fibre optic links is becoming increasingly important.

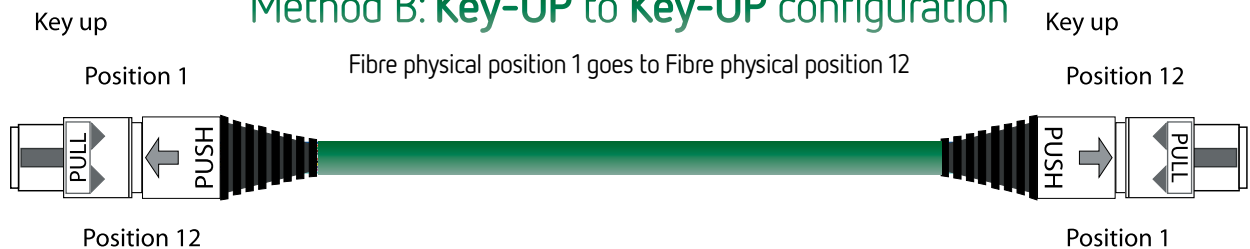
Maintaining polarity through the use of array cables requires careful planning. Multiple cable types, fibre counts, row counts, adapter types and transceiver protocols add up to a significant number of options. Please use the guide below to determine the correct cable polarity to use in your network.

Method A: Key-UP to Key-DOWN configuration



More typical configuration
Available with angle-polished single mode connectors

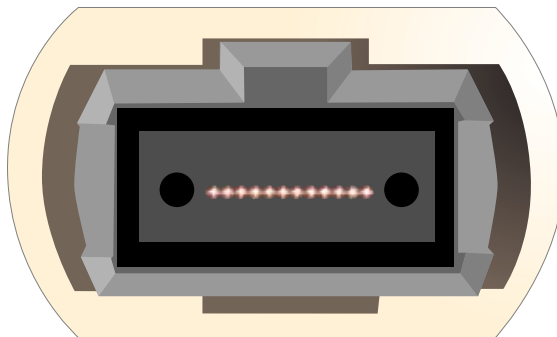
Method B: Key-UP to Key-UP configuration



Available with angle-polished single mode connectors

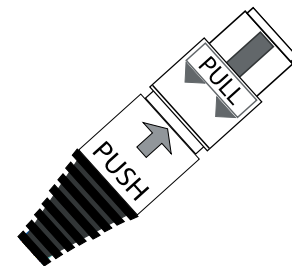
Connector: Endface

Keyway

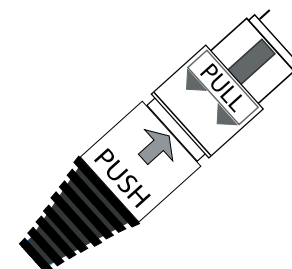


1 2 3 4 5 6 7 8 9 10 11 12
Connector endface and pin position

Connector: Without Pins



Connector: With Pins



QSFP ACTIVE OPTIC CABLE



DESCRIPTION

QSFP active optic cables are a high performance, low power consumption, long reach interconnect solution supporting 40G Ethernet, fibre channel and PCIe. It is compliant with the QSFP MSA and IEEE P802.3ba 40GBASE-SR4. QSFP AOC is an assembly of 4 full-duplex lanes, where each lane is capable of transmitting data at rates up to 10Gb/s, providing an aggregated rate of 40Gb/s.

FEATURES

- » Full duplex 4 channel 850nm parallel active optical cable
- » Transmission data rate up to 10.3Gbit/s per channel
- » SFF-8436 QSFP+ compliant
- » Hot pluggable electrical interface
- » Differential AC-coupled high speed data interface
- » 4 channels 850nm VCSEL array
- » 4 channels PIN photo detector array
- » Maximum link length of 300m on OM3 Multi mode Fibre (MMF) and 400m on OM4 MMF
- » Low power consumption <1.5W
- » 3.3V power supply voltage
- » RoHS 6 compliant

QSFP+ DIRECT ATTACH PASSIVE COPPER CABLE



DESCRIPTION

The QSFP+ passive cable assemblies are high performance, cost effective I/O solutions for 40G LAN, HPC and SAN applications. The QSFP+ passive copper cables are compliant with SFF-8436, QSFP+ MSA and IEEE P802.3ba 40GBASE-CR4. They offer a low power consumption for short reach interconnect applications. Each cable lane is capable of transmitting data at rates up to 10Gb/s, providing an aggregated rate of 40Gb/s.

FEATURES

- » QSFP+ conforms to the small form factor SFF-8436
- » 4-channel full-duplex passive copper cable transceiver
- » Support for multi-gigabit data rates :1 Gb/s - 10 Gb/s (per channel)
- » Maximum aggregate data rate: 40 Gb/s (4 x 10Gb/s)
- » Copper link length up to 5m (passive limiting)
- » High-density QSFP 38-PIN Connector
- » Power supply :+3.3V
- » Low power consumption: 0.02 W (typ.)
- » I2C based two-wire serial interface for EEPROM signature which can be customised

QSFP MPO/MTP® - LC DUPLEX BREAKOUT CABLE



DESCRIPTION

This is a 40 Gigabit Ethernet QSFP 40GBase-SR4 to MTP®(MPO)/LC (4 LC Duplex) varied length breakout cable. The Gbit QSFP MTP® to LC/UPC breakout cable uses 8 core fibre (centre 4 are unused). It is made to connect to a QSFP module cable for a fan out and offers an aqua/turquoise jacket colour. The fan-out side has 8 LC connectors that are duplexed together and numbered according to the fibre position in the MPO/MTP® connector.

FEATURES

- » Connector A: MPO/MTP® female connector (No guide pins)
- » Connector B: LC/UPC
- » 40Gb pin-out configuration
- » Jacket type: LSZH rated (OFNR)
- » Jacket colour: Aqua (blue)
- » Various fibre types available
- » Lengths available on request
- » Cable type: 3mm round to 2mm on the breakout side
- » Fibre count: 8 fibres

40G QSFP+ TO 4X 10G SFP+ BREAKOUT ACTIVE OPTICAL CABLES



DESCRIPTION

OPTiFab QSFP to 4x SFP+ breakout Active Optical Cable offers IT professionals a cost-effective interconnect solution for merging 40G QSFP and 10G SFP+ enabled host adapters, switches and servers. For typical applications, users can install this splitter active optical cable between an available QSFP port on their 40Gbps rated switch and feed up to four upstream 10GbE-SFP+ enabled switches. Each QSFP-SFP+ splitter active optical cable features a single QSFP connector rated for 40Gbps on one end and (4) SFP+ connectors, each rated for 10-Gb/s, on the other.

FEATURES

- » Electrical interface compliant to QSFP+ connector and SFP+ connectors
- » Hot pluggable
- » 850nm VCSEL transmitter, PIN photo-detector receiver
- » Up to 100m on OM3 MMF
- » Operating case temperature: 0 to +70°C
- » All-metal housing for superior EMI performance
- » RoHS compliant (lead free)

PRE-TERMINATED FIBRE

MPO/MTP® FAN OUT

FEATURES

- » Internal and external Use
- » 2mm and 3mm cable for 4, 8 and 12 way breakout for ruggedised use
- » 2mm cable for 16 and 24 way breakout for ruggedised use
- » Staggered tails or fan-out
- » Labelled for identification
- » Choice of cable colour
- » Single mode and multi mode fibre options
- » Choice of connectors available in OPTiFab Connector range
- » Clear protective sock
- » Available in custom lengths
- » Supplied with test certificate and optical results

DESCRIPTION

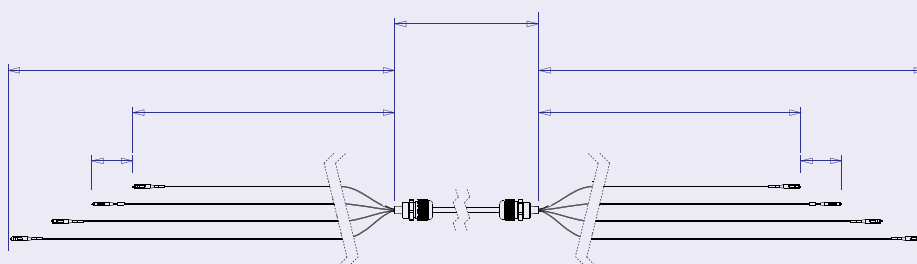
OPTiFab's pre-terminated fibre solutions allow our customers to order complete assemblies ready for direct installation, cutting on-site time and labour costs. Supplied on a drum with protective packaging to ensure that the fibre and all the components of the pre-term arrive in perfect condition. Internal/external LSZH cable jackets meet all fire-safety standards.



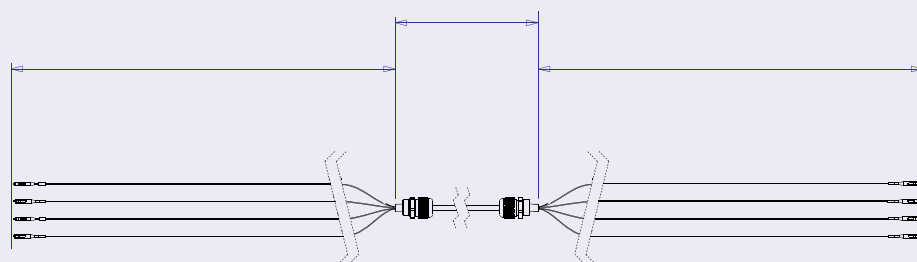
Calculating Pre-term Assembly Length

OPTiFab standard terminated fibre assembly lengths are calculated from **connector tip to connector tip**

Staggered-Length Configuration



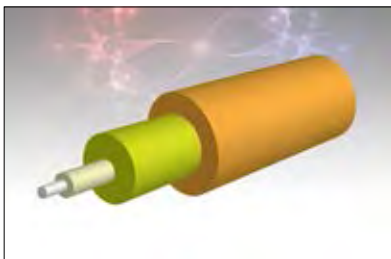
Fan-out Configuration



If you require lengths spanning from **gland to gland** please specify when placing your order

CABLE TIGHT BUFFERED

SIMPLEX & DUPLEX CABLE



FEATURES

- » LSZH durable outer jacket
- » Choice of fibre type
- » 100% Dielectric
- » High strength aramid-yarn strength member
- » Easy to strip with appropriate OPTiFab tools
- » Duplex easy and safe to separate
- » Choice of outer jacket material and colour
- » OS2, OM1, OM2, OM3 and OM4
- » 2mm and 3mm



low-smoke
zero halogen



flame
retardant



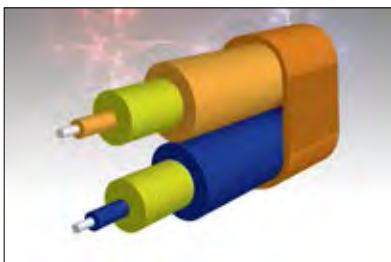
moisture
protected



highly flexible



FLAT DUPLEX CABLE



FEATURES

- » Durable inner and outer jackets
- » LSZH durable outer jacket
- » Choice of fibre type
- » Choice of outer diameter
- » High strength aramid-yarn strength member
- » Easy to strip with appropriate OPTiFab tools
- » Rip-cord for outer jacket separation
- » Choice of outer jacket material and colour
- » OS2, OM1, OM2, OM3 and OM4
- » 2mm and 3mm



low-smoke
zero halogen



flame
retardant



moisture
protected



highly flexible

TIGHT BUFFERED DISTRIBUTION CABLE



FEATURES

- » Durable inner and outer jackets
- » LSZH durable outer jacket
- » Choice of fibre type
- » Choice of outer diameter
- » High strength aramid-yarn strength member
- » Easy to strip with appropriate OPTiFab tools
- » Colour coded internal fibre jackets
- » Choice of outer jacket material and colour
- » OS2, OM1, OM2, OM3 and OM4



low-smoke
zero halogen



flame
retardant

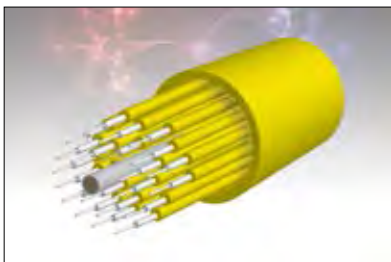


moisture
protected



highly flexible

BREAKOUT CABLE: 2-48 FIBRES



FEATURES

- » Up to 48x 2.1mm simplex cables
- » Central element (GRP)
- » Choice of fibre type
- » Individual high strength aramid yarn strength members
- » 100% dielectric
- » LSZH Outer Jackets (both outer and sub-cables)
- » Compact and lightweight
- » Choice of outer jacket material and colour
- » OS2, OM1, OM2, OM3 and OM4



low-smoke
zero halogen



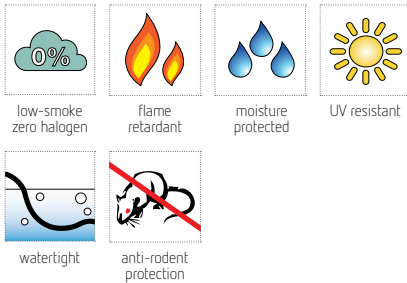
flame
retardant



moisture
protected

CABLE LOOSE-TUBE

SINGLE LOOSE-TUBE CABLE 2-24 CORE

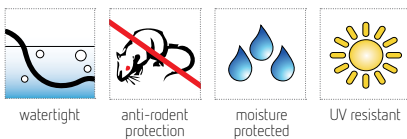


FEATURES

- » 250µm colour-coded optical fibre
- » Gel filled loose-tubes for fibre lubrication and water repelling properties
- » Ripcord
- » Durable outer jacket
- » Choice of fibre type
- » Choice of colour coded fibres
- » 100% dielectric
- » Water blocking fibreglass reinforcements
- » Choice of outer jacket material (PE/LSZH) and colour
- » OS2, OM1, OM2, OM3 and OM4

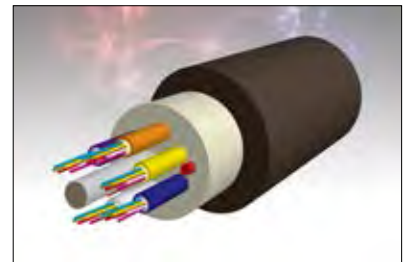


MULTI LOOSE-TUBE CABLE 48-144 CORE

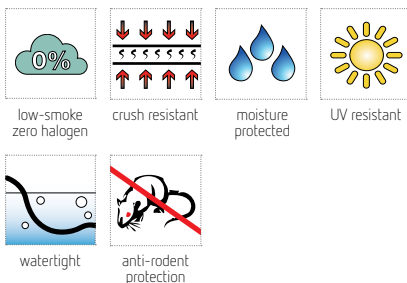


FEATURES

- » 250µm colour-coded optical fibre
- » Gel filled loose-tubes for fibre lubrication and water repelling properties
- » Central element (GRP)
- » Ripcord
- » Durable outer jacket
- » Choice of fibre type
- » Choice of colour coded fibres
- » 100% dielectric
- » Excellent friction resistance
- » Water blocking fibreglass reinforcements
- » Choice of outer jacket material (PE/LSZH) and colour
- » OS2, OM1, OM2, OM3 and OM4



STEEL TAPE ARMOUR SINGLE LOOSE-TUBE CABLE 2-24 CORE



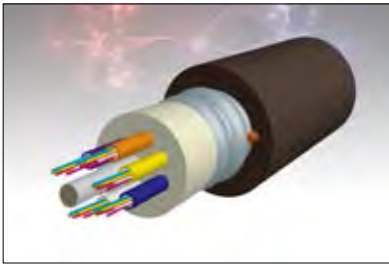
FEATURES

- » 250µm colour-coded optical fibre
- » Gel filled loose-tubes for fibre lubrication and water repelling properties
- » Ripcord
- » Durable outer jacket
- » Corrugated steel tape for superior protection
- » Choice of fibre type
- » Choice of colour coded fibres
- » High strength aramid-yarn strength member
- » Choice of outer jacket material (PE/LSZH) and colour
- » OS2, OM1, OM2, OM3 and OM4
- » Able to withstand impact and high pressure



LOOSE-TUBE CABLE

STEEL TAPE ARMOUR MULTI LOOSE-TUBE CABLE 48-144 CORE

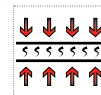


FEATURES

- » 250µm colour-coded optical fibre
- » Gel filled loose-tubes for fibre lubrication and water repelling properties
- » Central element (GRP)
- » Ripcord
- » Durable outer jacket
- » Corrugated steel tape for superior protection
- » Choice of fibre type
- » Choice of colour coded fibres
- » High strength aramid-yarn strength member
- » Choice of outer jacket material (PE/LSZH) and colour
- » OS2, OM1, OM2, OM3 and OM4
- » Able to withstand impact and high pressure



low-smoke
zero halogen



crush resistant



moisture
protected



UV resistant

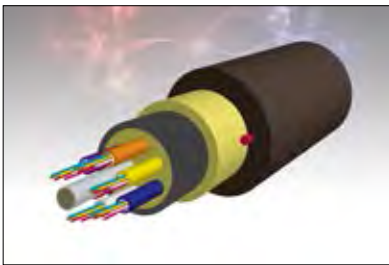


watertight



anti-rodent
protection

ALL-DIELECTRIC SELF-SUPPORTING (ADSS) CABLE



FEATURES

- » Central filler
- » Loose tube (jelly filled)
- » Inner jacket
- » High strength aramid-yarn strength member
- » Ripcord
- » Outer jacket
- » Excellent mechanical resistance
- » Totally dielectric
- » Tough
- » Resistant
- » High density of fibres
- » OS2, OM1, OM2, OM3 and OM4
- » Self-supported aerial applications.



aerial cable



moisture
protected



UV resistant

PATCH PANELS ODFS AND RACKS

FEATURES

- » Interchangeable face plate, hidden screws
- » FC; LC duplex/quad; SC simplex/duplex; ST
- » Min. fibre capacity: 24
- » Max. fibre capacity: 96-fibres (LC-quad)
- » Silk screen white printed areas for identification labelling
- » Fixed and sliding configurations
- » Colour finish – Black RAL 9005
- » RoHS compliant
- » Supplied with fibre-management kit

DESCRIPTION

OPTiFab rack-mounted fixed and sliding patch panels are available unloaded or pre-loaded with your choice of adapters - multi mode or single mode - U height and finish (black RAL 9005 or stainless steel).

The panels feature 4x 20mm cable entry/exit holes, and 2x 10mm blown fibre holes. There is an interchangeable face plate, meaning if you decide to change connectors and adapters in a certain network, you can replace the face plate without needing to change the whole panel.

24x SC SIMPLEX/LC DUPLEX ADAPTERS



24x SC DUPLEX/LC QUAD ADAPTERS



24x ST/FC ADAPTERS



3 SLOT PANEL - SC/LC OR MPO/MTP® CASSETTE



STAINLESS-STEEL FINISH PANEL



3 SLOT PANEL - ADAPTER PLATES



OPTICAL DISTRIBUTION FRAME

An optical distribution frame (ODF) is a passive device which terminates cables, allowing arbitrary interconnections to be made.

2U-4U OPTICAL DISTRIBUTION FRAME



DESCRIPTION

The 2U-4U closed frame optical distribution frame is a modulated design with drawable trays inside and constructed from cold-rolled steel. It is available unloaded or pre-installed with your choice of fibre optic adapters and pigtails. It is ideal for indoor fibre optic cables connection, storage, distribution and management. It features an interchangeable adapter plate for ease of adapter swapping.

Dimensions 2U

Length: 490mm x Width: 305mm x Height: 89mm

Dimensions 3U

Length: 490mm x Width: 305mm x Height: 133.5mm

Dimensions 4U

Length: 490mm x Width: 305mm x Height: 180mm

FEATURES

- » Latch door
- » Constructed from cold rolled steel
- » Can be rack mounted and wall mounted
- » Can be used in 19", 23" standard distribution frames
- » Suitable for ribbon and single fibre
- » Interchangeable adapter plate
- » 24C, 36C, 48C, 72C, 96C optional, with or without fibre optic pigtails and adapters



4U OPEN-FRAME OPTICAL DISTRIBUTION FRAME



DESCRIPTION

The 4U open frame optical distribution frame is made for 19 or 23 inch racks, or wall mounted, and can be rotated out to access the inside. It is available unloaded or pre-installed with your choice of fibre optic adapters and pigtails. It is ideal for indoor fibre optic cables connection, storage, distribution and management. Available with 5x 24-core splice trays. A drop-down cable management bar is installed at the front of the ODF for organising cables.

Dimensions

Length: 490mm x Width: 305mm x Height: 180mm

FEATURES

- » Constructed from cold rolled steel
- » Front plate rotates out on internal wheels
- » 3U size, can be rack mounted and wall mounted
- » Can be used in 19", 23" standard distribution frames
- » Suitable for ribbon and single fibre
- » Front mark on the plate is easy for identification and operation
- » 24C, 36C, 48C, 72C, 96C optional, with or without fibre optic pigtails and adapters



Racks and Cabinets

We supply rack cabinets and server cabinets to the datacoms, telecoms and internet administration industries, both in the UK and throughout Europe.

As all our rack cabinets and server racks are manufactured to order at our UK facility, we are able to offer unrivalled flexibility whilst quality and value for money are guaranteed.

Our product range includes wall boxes, network racks, server cabinets and rack cabinet accessories such as power distribution units, fan trays and shelves.

Our fully trained sales staff can help you with any queries regarding server racks and network cabinets



CLOSURES

DOMESTIC CLOSURE - IP68 RATING

FEATURES

- » Max Capacity: 120 cores
- » Cables Entry & Exit: 4x circular, 1x oval
- » Sealing Structure : Heat shrinkable Sealant
- » Fibre management tray
- » Dimensions inc. lid (LxD): 450mm x 230mm

DESCRIPTION

Our dome enclosure is convenient to install and requires no specialist tooling. It is suitable for aerial, underground, wall-mounting, man hole mounting and duct-mounting applications. Made from injection moulded, high-strength engineering PC plastic, it is resistant to damage caused by extreme temperatures, oxygen and ultraviolet radiation. Features a compartment tray to store excess fibre.



CONNECTOR-ADAPTER DOME CLOSURE - IP68 RATING

FEATURES

- » Material: PC
- » Unique connector-adapter system
- » Solid and secure
- » Sealing Structure : Heat shrinkable Sealant
- » Dimensions inc. lid (LxD): 460mm x 180mm

DESCRIPTION

A traditional dome enclosure featuring a unique internal structure, designed for an adapter-connector solution as an alternative to the fusion splicing system. This unique closure features a strong and secure metal internal plate with a fibre management system in the rear.



MECHANICAL SEALING DOME CLOSURE - IP68 RATING

FEATURES

- » Ageing resistance & ultraviolet radiation resistance
- » Base-to-dome seals on FOSC are mechanical for ease of installation and re-entry
- » Base and dome sealed with clamp and O-ring system
- » The splice trays are hinged for access to any splice without disturbing others trays
- » Stainless steel inner and fixing parts
- » FOSC with a earthing device protect it from damage by lightning
- » Compatible with most cable types and cable constructions
- » Aerial, buried, hand-hole, manhole applications

DESCRIPTION

Our mechanical sealing dome enclosure is suitable for aerial, underground, wall-mounting, man hole mounting and duct-mounting applications. Made from injection moulded, high-strength engineering PC plastic, it is resistant to damage caused by extreme temperatures, oxygen and ultraviolet radiation. Features a compartment tray to store excess fibre. A variety of port configurations available, each made from customisable vulcanised rubber.



CLOSURES

HORIZONTAL SPLICE CLOSURE - 144-288 CORES - IP68 RATING



DESCRIPTION

The OPTiFab horizontal in-line closure is designed for straight through line/branching applications, ensuring protection from the environment, and suitable for underground deployment. This is our largest inline closure and can accept up to 288 cores.

FEATURES

- » Material: PC
- » 2 inlet, 2 outlet Splice Closure
- » Fire resistant, waterproof, and quake-proof
- » Max. capability: 288 cores
- » Environment temperature: -40°C to +75°C
- » Atmospheric pressure: 70~106Kpa
- » Tested and inspected to the highest standards
- » Dimensions inc. lid (LxWxH): 605mm x 215mm x 175mm

HORIZONTAL SPLICE CLOSURE - 72 CORES - IP68 RATING



DESCRIPTION

The OPTiFab horizontal in-line closure is designed for straight through line/branching applications, ensuring protection from the environment, and suitable for underground deployment.

The scope of application is: aerial, underground, wall mounting, duct mounting and manhole mounting. The ambient temperature ranges from -40°C to +65°C.

FEATURES

- » Material: PP
- » 2 inlet, 2 outlet splice closure
- » Fire resistant, waterproof, and quake-proof
- » Max. capability: 72 cores
- » Cables entry & exit: 2-entry, 2-exit
- » Tested and inspected to the highest standards
- » Weight: 2.95kg
- » Dimensions inc. lid (LxWxH): 460mm x 190mm x 120mm

HORIZONTAL LATCH-LOCK CLOSURE - 144 CORES - IP68 RATING



DESCRIPTION

The latch-lock in-line closure is a sealed fibre optic splice closure designed for cable joint applications in telecommunications outside plant networks. The closure is suitable for deployment in aerial, underground or direct burial environments. Suitable for housing up to 144 splices, the closure comes complete with mass splicing trays and cable attachment devices.

Sealing is achieved via cold-applied mastic.

FEATURES

- » In-line design
- » 2 cable ports at each side
- » Compatible with most existing cable constructions
- » Cold applied cable sealing (pull button and screws seal)
- » Re-entry and re-closure mechanism with latches
- » High density
- » Dimensions inc. lid (LxWxH): 498mm x 217mm x 134mm

COMPACT FIBRE CLOSURE - IP68 RATING



DESCRIPTION

This product compliments the standard range of optical closures, but with a more compact design. Ideally suited for wall mounting, yet retaining its remains resistant to acid and alkaline, common to the larger closures. Its airtight and waterproof construction, makes the unit ideal for applications in tight, or restricted areas.

FEATURES

- » Compact design
- » 2 inlet, 2 outlet Splice Closure
- » Splice trays available
- » 12 Core; max. capability: 96 core. Additional fee for each 24 core.
- » Tested and inspected to the highest standards
- » Dimensions inc. cable glands and lid (LxWxH): 250mm x 185mm x 70mm

SLIM-LINE FIBRE CLOSURE - IP68 RATING



DESCRIPTION

The slim-line closure is compatible with most cable constructions, and allows easy and convenient re-entry and re-closure. It's well constructed and easy to install.

It features a splice tray with optical fibre radius of $\geq 40\text{mm}$ and results in very low optical loss. The outer metal component and fixing units are made of stainless steel, so it can be repeatedly used in different environments.

FEATURES

- » Max. Capacity: 24 core
- » Body material: PP
- » Outer material: 304 stainless steel
- » Applicable cable dia.: 3mm~10.8mm
- » Four cable ports: two inlet and two outlet
- » Dimensions (LxWxH): 249mm x 153mm x 30mm

FIBRE MANAGEMENT

MECHANICAL FIBRE SPLICE

FEATURES

- » Transparent body for immediate connecting confirmation
- » Co-axial self centering guides, provides excellent and durable continued enhanced optical performance
- » No tool required
- » No epoxy required
- » Fully compatible for use with 250um and buffered fibres
- » Easy assembly with high yield success rate can be achieved in as little as 30 seconds

DESCRIPTION

OPTiFab's mechanical fibre splice employs V-groove butting technology, which has been designed to optimise insertion loss for single mode and multi mode applications. Its design helps rapid assembly, with standard/minimal tooling required.

The mechanical splice is widely used and suitable for multiple applications, such as in distribution units, multimedia boxes, patch panels, drop cable with pigtails, or when repairing any damaged fibre lines.



FAN-OUT

FEATURES

- » Snap-together furcation unit allows you to make fast and simple terminations without the use of epoxy or gels
- » Fan-out tubing is colour-coded according to industry standards for easy identification
- » Built-in bend radius control maintains the integrity of the cabling
- » Acts as a strain relief mechanism for fibre cables, so that data transfer isn't compromised

DESCRIPTION

These fan-out kits allow you to sleeve or terminate cables into a 900µm buffer tube, quickly and easily. The no-mess installation process achieves reliable terminations in the factory or out in the field, without the need for special gels or epoxies.



19" 1U/2U FIBRE MANAGEMENT BAR

FEATURES

- » Strong and robust construction
- » Choice of colours
- » Available in 1U or 2U heights
- » Available with 70mm or 100mm hooks

DESCRIPTION

Keeping cables tidy and organised is paramount in a network environment. The 1U cable management bar is designed to be installed in an existing frame or cabinet, using our cage-nuts, and is available in a variety of colours, powder coating, or natural brushed aluminium finish. Brush strip version also available.



CAGE NUTS

FEATURES

- » Cage nuts, bolts & washers for 19" cabinets/wall boxes
- » The standard M6 connector type for 19" technology
- » Choice of quantity and finish

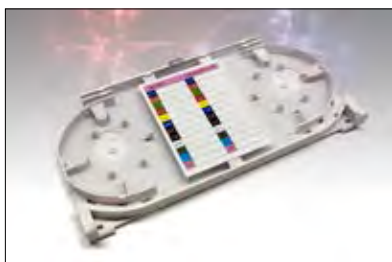
DESCRIPTION

We provide the highest quality cage nuts in three varieties and finishes. These are designed to fit with OPTiFab's 19" cabinets, patch panels and fibre management bars.



FIBRE MANAGEMENT

LARGE COLOUR-CODED 24 FIBRE SPLICE TRAY



MULTI-STACK HINGE OVAL SPLICE TRAYS



MEDIUM 24 FIBRE SPLICE TRAY



MEDIUM 12 FIBRE SPLICE TRAY



COMPACT 12 FIBRE SPLICE TRAY



SPLICE BRIDGE / SPLICE HOLDER



FIBRE SPLICE PROTECTORS



DESCRIPTION

Our fibre optic fusion splice protector sleeves are designed to restore the mechanical strength, environmental integrity and fibre optic transmission properties after fibre splicing and are available for both single and ribbon (mass) fibre cables.

FEATURES

- » Available in 40mm and 60mm lengths
- » Stainless steel strength member with rounded edges

BUNNY CLIPS / CABLE GLANDS



DESCRIPTION

Cable glands to accept most fibre cables up to 24 core. Twisting bunny clips featuring a self adhesive pad for fibre organization

SPLITTERS AND COUPLERS

FILTER WAVELENGTH DIVISION MULTIPLEXER

FEATURES

- » Low insertion loss
- » High isolation
- » Low PDL
- » Compact design
- » Good channel-to-channel uniformity
- » Operating wavelength: From 1260nm to 1620nm
- » Operating temperature: From -40°C to +70°C
- » High reliability and stability

DESCRIPTION

In fibre-optic communications, wavelength-division multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single optical fibre by using different wavelengths (i.e. colours) of laser light. This technique enables bidirectional communications over one strand of fibre, as well as multiplication of capacity.



SPLITTERS, COUPLERS AND WDM SOLUTIONS

FEATURES

- » Standard and non-standard wavelengths
- » Standard and non-standard split ratios
- » WDM, CWDM, DWDM
- » Tube-type, ABS, LGX, 19inch rack mountable packages
- » Durable packages
- » Excellent channel isolation
- » Low insertion loss and return loss
- » All standard connector types
- » Extended connector life span
- » Reference cable quality connections
- » Low maintenance matings
- » Easy to install
- » Meets your space requirements
- » Reduced network down time
- » Increased customer satisfaction
- » Saves time and money

DESCRIPTION

OPTiFab's WDM, coupler and splitter products are offered in a variety of configurations. Whether you require hybrid connectors, custom length legs, non-standard split ratios or unusual wavelength combinations, our products are designed to meet your needs.



FTTH FIBRE TO THE HOME

More than 10 million homes worldwide already have fibre-to-the-home broadband connections. The technology involved in fibre optic communication holds many advantages over traditional copper networks.

A key benefit to FTTH — also called FTTP, for “fibre-to-the-premises” broadband — is that it provides faster connection speeds and carrying capacity than twisted pair conductors, DSL or coaxial cable. For example, a single copper pair conductor can carry six phone calls. A single fibre pair can carry more than 2.5 million phone calls simultaneously.

4 FIBRE FTTH BOX



DESCRIPTION

OPTiFab's fibre termination box is constructed from a lightweight, strong ABS housing. A compact design with a sliding removable cover for ease of access during installation. It features front and rear cable entry points for 3mm or 5mm cable.

Dimensions (including lid)

Length: 125mm x Width: 80mm x Height: 26mm

FEATURES

- » Wall mounted and rack mounted applications
- » Sliding protective lid
- » Suitable for LC, SC, ST, E2000 adapters
- » Tested and inspected to the highest standards

4 FIBRE FTTH OSD-C BOX



DESCRIPTION

The OPTiFab FTTH-osd-c is a newly developed Fibre to the Home terminal box, designed for a maximum of 4 fibres, with a clip cover for convenient access. Made from lightweight and durable materials, this compact and protective box is the perfect solution for FTTx applications.

Dimensions (including lid)

Length: 150mm x Width: 110mm x Height: 29mm

FEATURES

- » Wall mounted and rack mounted applications
- » Unique clip attachment cover for convenient access
- » Suitable for LC, SC, ST, E2000 adapters
- » Tested and inspected to the highest standards

2 WAY SLIDING CONNECTOR COVER FTTH BOX



DESCRIPTION

This FTTH box features a sliding section for connector protection. It is a perfect cost-effective solution-provider in the FTTx networks.

Dimensions (including lid)

Length: 84mm x Width: 130mm x Height: 24mm

FEATURES

- » ABS with PC material used ensures the body is strong and light
- » Easy installation: Ready for wall mounting – installation kits provided
- » Adapter slots used – No screws or tools needed for installing adapters

SC/LC FTTH OUTLET



DESCRIPTION

This FTTH customer outlet is designed for SC or LC adapters, with a spring-loaded shutter cover for eye protection and also for the prevention of foreign objects entering the adapter. The lid is secured via a self clipping design, and a fibre storage compartment and integrated heat-shrink splice and mechanical splice holder are featured inside.

Dimensions (including lid)

Length: 86mm x Width: 86mm x Height: 26mm

FEATURES

- » Wall mounted and rack mounted applications
- » Snap lock lid
- » Suitable for SC simplex and LC duplex adapters
- » Tested and inspected to the highest standards

FIBRE AND COPPER (CAT5E/6) FTTH OUTLET

FEATURES

- » Wall mounted and rack mounted applications
- » Snap lock lid
- » Suitable for SC and LC adapters and Cat5e/Cat6
- » Tested and inspected to the highest standards

DESCRIPTION

This FTTH Fibre and Copper customer outlet is designed for SC or LC adapters and an RJ45 connection. Spring-loaded shutter cover for eye protection and also for the prevention of foreign objects. The lid is secured via a self clipping design, and a fibre storage compartment and integrated heat-shrink splice and mechanical splice holder are featured inside.

Dimensions (including lid)

Length: 86mm x Width: 86mm x Height: 26mm



SMALL 2 WAY FTTH BOX

FEATURES

- » Wall mounted and rack mounted applications
- » Snap lock lid
- » Suitable for SC simplex and LC duplex adapters
- » Tested and inspected to the highest standards

DESCRIPTION

OPTiFab's fibre termination box is constructed from a lightweight, strong ABS housing. A compact design with a snap-on cover for ease of access during installation.

Dimensions (including lid)

Length: 86mm x Width: 86mm x Height: 26mm



SMALL 2 WAY FTTH BOX (WITH HINGE)

FEATURES

- » Wall mounted and rack mounted applications
- » Hinged lid
- » Suitable for SC simplex and LC duplex adapters
- » Tested and inspected to the highest standards

DESCRIPTION

OPTiFab's fibre termination box is constructed from a lightweight, strong ABS housing. A compact design with a hinge cover for ease of access during installation.

Dimensions (including lid)

Length: 86mm x Width: 86mm x Height: 27mm



FTTH WALL-PLATE

FEATURES

- » 86mm x 86mm 1 port flat wall plate
- » Housing: High Impact Flame Retardant Plastic, ABS UL94V-1
- » Colour: White

DESCRIPTION

The FTTH fibre wall plate is available for LC, FC, SC and ST adapters. An embedded section above the adapter entry port allows for clear labelling for ease of identification in a network. Made from ABS plastic in white or ivory, with a detachable outer shell. Supportive of single mode and multi mode networks.

Dimensions

Length: 86mm x Width: 86mm x Height: 8mm



WALL BOXES

IP65 COMPACT FTTH WALL BOX



DESCRIPTION

The FTTH compact IP65 closure is used for the distribution and termination of fibre optic cable devices. The IP rated box can be utilised for FTTH applications and other installation requirements to break-out and splice input cables into drop cables, pigtails, or direct patching. The box may also be used for protective interconnection of a fibre network and is suitable for outdoor, riser and tunnel installations. Capacity = 4-Port SC Simplex

FEATURES

- » The box is made from anti-ageing materials, with ultra violet protective characteristics
- » The sealing mechanism is based on pressed rubber/silicon strip and is rated to IP65
- » Capacity = 4-Port SC simplex
- » Spare loops of pigtails and drop cables can be stowed in the storage compartment for convenience or for maintenance



Dimensions (including lid)

Length: 186mm x Width: 114mm x Height: 40mm

IP65 SMALL CENTRAL-LOCKING WALL BOX



DESCRIPTION

The IP65 2-way central lock wall box/fibre optic distribution box is used for the distribution and termination of fibre optic cable devices. The IP rated box can be utilised for FTTH applications and other installation requirements to break-out and splice input cables into drop cables, pigtails, or direct patching. The box may also be used for protective interconnection of a fibre network and is suitable for outdoor, riser and tunnel installations.

FEATURES

- » The box is made from anti-ageing materials, with ultra violet protective characteristics
- » The sealing mechanism is based on pressed rubber/silicon strip and is rated to IP65
- » The box is fitted with a lock for additional security and can be installed on walls or mounted on a pole
- » Spare loops of pigtails and drop cables can be stowed in the storage compartment for convenience or for maintenance
- » Special locking device for output cables



Dimensions (including lid)

Length: 150mm x Width: 130mm x Height: 37mm

IP65 4-WAY LOCK & LATCH WALL BOX



DESCRIPTION

The IP65 4-way lock & latch wall box/fibre optic distribution box is used for the distribution and termination of fibre optic cable devices. The IP rated box can be utilised for FTTH applications and other installation requirements to break-out and splice input cables into drop cables, pigtails, or direct patching. The box may also be used for protective interconnection of a fibre network and is suitable for outdoor, riser and tunnel installations.

FEATURES

- » The box is made from anti-ageing materials, with ultra violet protective characteristics
- » The sealing mechanism is based on pressed rubber/silicon strip and is rated to IP65
- » The box is fitted with a lock for additional security and can be installed on walls or mounted on a pole
- » Spare loops of pigtails and drop cables can be stowed in the storage compartment for convenience or for maintenance
- » Special locking device for output cables



Dimensions (including lid)

Length: 191mm x Width: 120mm x Height: 44mm

IP65 12-WAY SMALL LOCKABLE WALL BOX

FEATURES

- » Up to 12 fibres
- » Removable splice tray for easy installation
- » Multiple adapter options available
- » 6 adapter positions
- » IP65 rating
- » Integrated bend radius protection
- » Sealing glands for up to 24 exiting cables + 1 incoming cable
- » Lockable door
- » RoHS, REACH & SvHC compliant
- » Supplied with 24 heat shrink splice protectors, transit tubing, wall fixings and tie wraps

DESCRIPTION

This lockable IP65 distribution box offers the ability to terminate 12 fibres housed in an ABS, IP65 rated shell. Suitable for both 6x SC duplex and LC quad adapter types. Can be used internally and externally.

Offers up to 12 exit points for patching cables and 1 standard cable entry point for loose tube, tight buffer, pre-terminated and steel tape armoured cable. Each enclosure has integrated strength member tie positions and bend radius protection with the addition of a removable front door allowing for quick and easy installation.

Dimensions (including lid)

Length: 258mm x Width: 186mm x Height: 61mm



IP65 SPLITTER TERMINAL WALL BOX

FEATURES

- » Up to 36 fibres
- » Removable splice tray for easy installation
- » Multiple adapter options available
- » 6 adapter positions
- » IP65 rating
- » Integrated bend radius protection
- » Sealing glands for up to 24 exiting cables + 1 incoming cable
- » Lockable door
- » RoHS, REACH & SvHC compliant
- » Supplied with 36 heat-shrink splice protectors, transit tubing, wall fixings and tie wraps

DESCRIPTION

This lockable IP65 distribution box offers the ability to terminate 36 fibres housed in an ABS, IP65 rated shell. Suitable for both SC simplex and LC duplex adapter types.

Can be used internally and externally. Offers up to 48 exit points for patching cables and 1 standard cable entry point for loose tube, tight buffer, pre-terminated and steel tape armoured cable. Each enclosure has integrated strength member tie positions and bend radius protection with the addition of a removable front door allowing for quick and easy installation.

Dimensions (including lid)

Length: 380mm x Width: 290mm x Height: 115mm



IP65 PLC CASSETTE BOX

FEATURES

- » ABS with PC shell ensures a strong and light body
- » Water-proof design for outdoor use
- » Easy installations: No screws and tools needed for installing adapters
- » Ready for splitters: designed space for adding splitters
- » Space saving
- » Lower layer for splitters and over length fibre storage
- » Upper layer for splicing, cross-connecting and fibre distribution
- » Cable fixing units provided for fixing optical cable
- » Accommodates both cable glands as well as tie-wraps
- » Lock provided for extra security

DESCRIPTION

This terminal box terminates up to 2 fibre optic cables, offers spaces for splitters and up to 48 fusions, allocates 24 SC adapters and is suitable for both indoor and outdoor environments. It is a perfect cost-effective solution provider in the FTTx networks.

Dimensions (including lid)

Length: 330mm x Width: 225mm x Height: 90mm



WALL BOXES

IP65 12 FIBRE PLASTIC WALL BOX



DESCRIPTION

This terminal box terminates up to 12 fibres. It is a perfect cost-effective solution-provider in the FTTx networks.

Dimensions (including lid)

Length: 235mm x Width: 213mm x Height: 65mm



FEATURES

- » ABS with PC material used ensures the body is strong and light
- » Water-proof design for outdoor use
- » Easy installation: Ready for wall mounting – installation kit provided
- » Adapter slots used – No screws or tools needed for installing adapters
- » Ready for splitters: designed with space for adding splitters
- » Cable fixing units provided for fixing outdoor optical cable
- » Protection level: IP65
- » Accommodates both cable glands and tie-wraps
- » Lock provided for extra security

IP65 24 FIBRE PLASTIC WALL BOX



DESCRIPTION

This terminal box terminates up to 24 fibres. It is a perfect cost-effective solution-provider in the FTTx networks.

Dimensions (including lid)

Length: 320mm x Width: 240mm x Height: 100mm



FEATURES

- » ABS with PC material used ensures the body is strong and light
- » Water-proof design for outdoor use
- » Easy installation: Ready for wall mounting – installation kit provided
- » Adapter slots used – No screws or tools needed for installing adapters
- » Ready for splitters: designed with space for adding splitters
- » Cable fixing units provided for fixing outdoor optical cable
- » Protection level: IP65
- » Accommodates both cable glands and tie-wraps
- » Lock provided for extra security cost-effective solution provider in the FTTx networks

IP65 SNAP-LOCK WALL BOX



DESCRIPTION

This Snap-Lock IP65 distribution box offers the ability to terminate 16 fibres housed in an ABS, IP65 rated box. Suitable for both SC duplex and LC quad adapter types.

Can be used internally and externally. It offers up to 24 exit points for patching cables and 1 standard cable entry point for loose tube, tight buffered, pre-terminated and steel tape armoured cable. Each enclosure has integrated strength member tie positions and bend radius protection with the addition of a removable front door, allowing for quick and easy installation.

Dimensions (including lid)

Length: 306mm x Width: 140mm x Height: 106mm



FEATURES

- » Up to 16 fibres
- » Snap-lock doors
- » Removable splice tray for easy installation
- » Multiple adapter options available
- » 6 adapter positions
- » IP65
- » Integrated bend radius protection
- » Sealing glands for up to 24 exiting cables + 1 incoming cable
- » Lockable door
- » RoHS, REACH & SvHC compliant
- » Supplied with 24 heat shrink splice protectors, transit tubing, wall fixings and tie wraps

IP65 EXTRA-LARGE LOCKABLE WALL BOX

FEATURES

- » The box is made from anti-ageing materials, with ultra violet protective characteristics
- » The sealing mechanism is based on pressed rubber/silicon strip and is rated to IP65
- » The box is fitted with a lock for additional security and can be installed on walls or mounted on a pole
- » Operating temperature: -20°C ~ +70°C; storage: -40°C ~ +80°C
- » Spare loops of pigtails and drop cables can be stowed in the storage compartment for convenience or for maintenance
- » Special locking device for output cables
- » Bi-Layer structure, for splicing and upper layer for splitting and distribution
- » There are up to 48 port positions for adapters (FC, LC duplex, SC simplex or ST)

DESCRIPTION

The 48 core IP65 fibre optic distribution box is used for the distribution and termination of fibre optic cable devices. The IP rated box can be utilised for FTTH applications and other installation requirements to break-out and splice input cables into drop cables, pigtails, or direct patching. The box may also be used for protective interconnection of a fibre network and is suitable for outdoor, riser and tunnel installations, up to 48-cores.

Dimensions (including lid)

Length: 320mm x Width: 350mm x Height: 120mm



METAL SINGLE-DOOR LOCKABLE WALL BOX

FEATURES

- » IP20 rating
- » Tamper-proof construction
- » Secure internal bracket for adapters (see specs)
- » U-shape cut-outs for easy cable entry/exit
- » Secure lock: two keys provided
- » Splice bridge available upon request
- » RoHS compliant
- » TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

DESCRIPTION

The OPTiFab metal single-door lockable wall box features an adapter-ready internal bracket and splice tray option. Adapters, splice trays and pigtails can be installed upon request. The façade is constructed from cold-rolled steel with a highly durable electrostatic powder coating.

Dimensions (including lid)

Length: 270mm x Width: 227mm x Height: 50mm

or as a deep profile version:

Length: 270mm x Width: 250mm x Height: 80mm



METAL DOUBLE-DOOR LOCKABLE WALL BOX

FEATURES

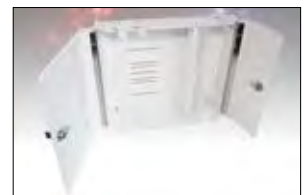
- » IP20 rating
- » Tamper-proof construction
- » Secure internal bracket for adapters (see specs)
- » Cut-outs for easy cable entry/exit, or blank
- » Secure lock: two keys provided
- » Stainless steel hinges
- » Splice bridge available upon request
- » RoHS compliant
- » TIA/EIA 568.C, ISO/IEC 11801, EN 50173, IEC 60304, IEC 61754, EN 297-1

DESCRIPTION

The OPTiFab metal double-door lockable wall box features an adapter-ready internal bracket and splice tray option. Adapters, splice trays and pigtails can be installed upon request. The façade is constructed from cold-rolled steel with a highly durable electrostatic powder coating. Stainless steel hinges provide smooth door movement.

Dimensions (including lid)

Length: 380mm x Width: 330mm x Height: 72mm



TAMPER-PROOF WALL BOXES

DESCRIPTION

This terminal box terminates up to 12 fibres. It is a perfect cost-effective solution-provider in the FTTH networks. The adapter and connector meet on the inside of the wall box, ensuring complete security. Features 4 or 8 cable entry slots, and 1x 20mm cable entry gland hole.

FEATURES

- » 1.2mm mild steel, rated at IP20
- » 1x 20mm cable gland and 4x bunny clips
- » Interchangeable adapter plate
- » Can be supplied unloaded or pre-loaded

6-PORT SC DUPLEX/LC QUAD



Dimensions (including lid)

LxWxH: 160mm x 115mm x 45mm

8-PORT ST/FC



Dimensions (including lid)

LxWxH: 160mm x 115mm x 45mm

8-PORT SC DUPLEX/LC QUAD



Dimensions (including lid)

LxWxH: 175mm x 175mm x 45mm

BREAKOUT WALL BOXES

DESCRIPTION

This terminal box terminates up to 12 fibres. It is a perfect cost-effective solution-provider in the FTTH networks. It features a solid construction, with adapter ports located on the outside edge for easy access.

FEATURES

- » 1.2mm mild steel, rated at IP20
- » 1x 20mm cable gland and 4x bunny clips
- » Can be supplied unloaded or pre-loaded
- » Ideal use indoor data centre or telco network

6-PORT LC QUAD/SC DUPLEX



Dimensions (including lid)

LxWxH: 110mm x 110mm x 45mm

8-PORT FC/ST



Dimensions (including lid)

LxWxH: 110mm x 110mm x 45mm

8-PORT LC DUPLEX/SC SIMPLEX



Dimensions (including lid)

LxWxH: 160mm x 160mm x 45mm

PEN-TYPE VFL (VISUAL FAULT LOCATOR)

FEATURES

- » 2.5mm universal connector (1.25mm connector optional)
- » Operates in either CW or pulsed mode with constant output power
- » Low battery warning
- » Long battery life (up to 60 hours)
- » Drop-resistant and dust-proof design of laser head
- » Laser case ground design prevents ESD damage
- » Portable and rugged
- » Easy to use

DESCRIPTION

Our pen-type VFL is specially designed for field personnel who need an efficient and economical tool for fibre tracing, fibre routing and continuity checking in optical networks. It finds breakpoints, poor connections, bending or cracking in fibre optic cables. It can find faults in an OTDR dead zone and is used for end-to-end visual fibre identification.



VARIABLE ATTENUATOR

FEATURES

- » The most compact and rugged portable attenuator on the market
- » Three wavelengths: 1310nm / 1490nm / 1550nm
- » Different attenuator ranges: 40dB, 60dB or 80dB
- » Can save current value as a reference
- » Can save 10 attenuation value tracks
- » Memorises values even after shut down
- » Energy saving mode
- » One-year warranty and three-year recommended calibration interval

DESCRIPTION

The optical variable attenuator is designed for optimal flexibility and field usability, it delivers the highest performance on the market. It is an ideal tool for telecommunication network technicians to do a pre-test before routine maintenance.



OPTICAL POWER METER

FEATURES

- » Wide measurement range; High resolution: 0.01dB; Good accuracy: ± 0.2 dB
- » Insertion loss test in dB
- » FC&2.5mm UPP
- » 850/1300/1310/1490/1550/1625nm calibrated wavelengths
- » Data storage
- » Data transfer (optional)
- » 7X24 real-time test on PC (optional)
- » Built in VFL (optional)
- » Energy save mode
- » Reference value storage
- » Full energy can support above 100 hours of operation

DESCRIPTION

An optical power meter (OPM) is a device used to measure the power in an optical signal, for testing average power in fibre optic systems.



TEST & MEASUREMENT

MULTI LASER SOURCE



DESCRIPTION

This product can provide a multi wavelength laser source: 850/1300/1310/1550nm, and can test the loss of fibre with our optical power meter. Finally, it can provide a reference for our power meter and/or variable attenuator.

FEATURES

- » High degree of stabilisation
- » 270, 1000, 2000 Hz tone
- » LCD display
- » Low battery indicator
- » Battery charge indicator
- » Adjustable power output
- » Energy save mode: 10 minutes of non-operation will cause the device to automatically power off (can be cancelled)
- » Can support above 16 hours operation

FIBRE IDENTIFIER



DESCRIPTION

Rugged, hand-held and easy-to-use fibre optic test instrument designed to detect and measure the core power levels of optical signals on single-mode optical fibre without disrupting traffic on that fibre.

FEATURES

- » Support to detect optical signals without disrupting traffic
- » Based on non-destructive technology
- » Indicates the signal direction in fibre
- » Detect a variety of optical tones; 270Hz, 1kHz and 2kHz
- » Suitable for 0.25, 0.9, 2.0, 3.0mm fibre, with no need to replace the clamp block
- » Built in visual fault locator
- » 1mW or 10mW optional
- » Low-battery indication
- » Powered by 2 units of 1.5V AA alkaline batteries

PORTABLE FIBRE CONNECTOR INSPECTION MICROSCOPE



DESCRIPTION

The OPTiFab portable fibre connector inspection microscope combines a desktop style fibre microscope on a large, adjustable LCD screen. It features an internal rechargeable battery so can be used on site. A clear picture and adjustable focus ring are featured to ensure the clearest image of your fibre connector. Works with all connector types.

FEATURES

- » High-definition image display
- » 400x optical zoom
- » LCD video monitor
- » High resolution image
- » 2000mA rechargeable lithium battery
- » DC power supply
- » Long standby mode
- » 2.5mm PC connector interfaces
- » 2.5mm APC connector interfaces
- » 1.25mm connector interfaces for LC and MU connectors
- » Built-in CCD camera

HAND-HELD PORTABLE FIBRE CONNECTOR INSPECTION MICROSCOPE



DESCRIPTION

Optical microscope that offers a fast and easy way to inspect fibre optic connectors.

FEATURES

- » Handheld and lightweight
- » Includes backlight facility
- » Supplied ready to use
- » Available in 200x and 400x magnification
- » Can be supplied with 2.5mm or 1.25mm adapter

FUSION SPLICERS

Fusion splicing is a technique of joining two optical fibres end-to-end using heat. The goal is to fuse the two fibres together in such a way that light passing through the fibres is not scattered or reflected back by the splice, and so that the splice and the region surrounding it are almost as strong as the virgin fibre itself.

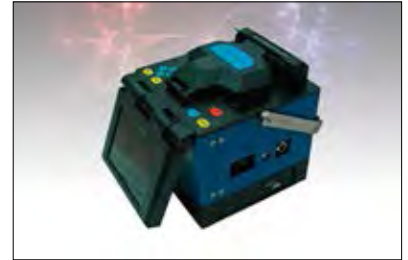
OPTIFAB FUSION SPLICER

FEATURES

- » 5-inch high resolution full colour LCD display
- » Simultaneous X and Y views, with 180x magnification
- » Average splice time: 9 seconds
- » Average tube-heating time: 30 seconds
- » Lithium Battery: ~160x splicing and heating
- » Resists dust and wind
- » Splicing modes: Auto and manual
- » USB Port
- » Stores up to 6,000 groups of splice results

DESCRIPTION

This is a rugged and reliable fusion splicer with a 5 inch LCD display, and has an average splice time of 9 seconds.



FUJIKURA 70S FUSION SPLICER

FEATURES

- » World's quickest splicing 7sec. / tube-heating 14sec.
- » Minimal manual operation. Splice in 4 steps.
- » Multi-functional carrying case with integrated work station.
- » Absolute robustness.

DESCRIPTION

The 70S rugged construction design adds improved reliability by resisting shock, rain and dust, allowing it to withstand a 30 inch drop test. Two of the newest features include an automated wind protector and a tube heater which has been developed for quicker splicing cycles and to reduce the number of operational steps. The unit also includes a high-resolution LCD monitor, powerful Li-ion battery for longer operation time and built in videos for on-the-go training



FUJIKURA 21S FUSION SPLICER

FEATURES

- » 11 second splicing in SM-AUTO mode
- » 30sec Automated Tube-heating with Single 60mm sleeve
- » 200 splice cycles / tube heating cycles per full battery charge
- » Robust and lightweight design plus shock, dust and rain resistant
- » 4.7 inch colour LCD for indoor and outdoor use
- » USB communication for PC connection.

DESCRIPTION

The 21S is the World's Smallest & Lightest Active V-groove Splicer designed for high-end FTTH splicer applications in FTTX, Data Centre / LAN and Access Networks. It offers an active V-Groove alignment single fibre splicer for reliable and improved splicing performance for a range of different fibres; SMF, MMF, DSF, NZDSF. Applicable from 125µm cladding diameter/up to 3mm sheath diameter fibres with sheath clamp. It is Extremely lightweight at 1.1kg including battery.



FUJIKURA 12S FUSION SPLICER

FEATURES

- » Fixed v-groove, Dual-axis observation system
- » Reliable 0.05dB SM & 0.02dB MM splicing performance
- » 15sec splicing in SM-AUTO mode
- » 30sec Tube-heating with Single 60mm sleeve
- » 4.47 inch color LCD for outdoor / indoor use
- » Long battery life, 100 splice / tube heating cycles
- » Long electrode life provides 3000 splices
- » PC software in standard package for easy data management (software updates via internet).

DESCRIPTION

The Fujikura 12S fusion splicer is the smallest, lightest, and most portable splicer in the world.

The robust chassis features shock, dust and moisture protection while the two camera observation system provides for accurate fibre alignment and loss estimation calculations



FIBRE CLEAVERS

FIBRE CLEAVER WITH AUTO RETURN



DESCRIPTION

An ultra compact and outstanding quality fibre cleaver, this is designed for excellent portability and is ideal for use in the field with the OPTiFab Field Installable Connectors (FIC) or in FTTH applications. Available in various versions, including ones with a narrow lid auto-return a fibre-collecting dustbin and a narrow lid manual-return. Can be included in part of a termination kit.

FEATURES

- » Easy to use
- » Ultra compact
- » Easy handling
- » High cutting quality
- » Auto return blade feature



FIBRE CLEAVER WITH AUTO RETURN (NARROW LID)



DESCRIPTION

An ultra compact and outstanding quality fibre cleaver, this is designed for excellent portability and is ideal for use in the field with the OPTiFab Field Installable Connectors (FIC) or in FTTH applications. Available in various versions, including ones with an auto-return feature, a fibre-collecting dustbin and a narrow lid manual-return. Can be included in part of a termination kit.

FEATURES

- » Easy to use
- » Ultra compact
- » Easy handling
- » High cutting quality
- » Auto return blade feature
- » Narrow lid for ease of handling and weight saving properties



FIBRE CLEAVER WITH FIBRE COLLECTOR



DESCRIPTION

An ultra compact and outstanding quality fibre cleaver, this is designed for excellent portability and is ideal for use in the field with the OPTiFab Field Installable Connectors (FIC) or in FTTH applications. Available in various versions, including ones with an auto-return feature, narrow lid auto-return and a narrow lid manual-return. Can be included in part of a termination kit.

FEATURES

- » Easy to use
- » Ultra compact
- » Easy handling
- » High cutting quality
- » Fibre collecting dustbin for safety



FIBRE CLEAVER - MANUAL RETURN (NARROW LID)

FEATURES

- » Easy to use
- » Ultra compact
- » Easy handling
- » High cutting quality
- » Narrow lid for ease of handling and weight saving properties

DESCRIPTION

An ultra compact and outstanding quality fibre cleaver, this is designed for excellent portability and is ideal for use in the field with the OPTiFab Field Installable Connectors (FIC) or in FTTH applications. Available in various versions, including ones with an auto-return feature, narrow lid auto-return and a fibre-collecting dustbin. Can be included in part of a termination kit.



HAND-HELD PEN CARBIDE CLEAVER

FEATURES

- » Made from lightweight chrome plated copper
- » Tip material: Carbide
- » Clip-on pocket storage
- » Weight: 30g
- » Overall length: 132mm
- » Ideal for Field Installable Connectors (see page 8)
- » Presented in a plastic case with sleeve

DESCRIPTION

This carbide cleaver is presented in an pen-style lightweight form, which is easy to carry and includes a protective clip-on cap. The 30 degree wedge angle ensures a precision cleave for speedy "use anywhere" fibre preparation.



TOOLS / SHEATH SLITTERS

RATCHET CRIMP TOOL



DESCRIPTION

The OPTiFab Ratchet Crimp Tool is a professional, heavy duty ratcheting crimp tool with adjustable tension for the purpose of securing the crimp ring in a connector. Featuring replaceable die sets to meet requirements of different crimping sizes.

FEATURES

- » Replaceable die sets
- » Die sets available in different sizes
- » Carbon Steel
- » Heat-Treated
- » TPR Handles

TRI-HOLE SURE-GRIP STRIPPERS



DESCRIPTION

This fibre stripper features 3 guides which are used to remove 2/3mm outer jackets, 900µm buffer insulation and 250µm acrylic coating. This leaves 125µm bare fibre exposed for termination.

FEATURES

- » Three factory set stripping guides: 2/3mm, 900µm, 250µm
- » Comfortable handles
- » Portable and lightweight design
- » Diamond shaped blades for optimum stripping
- » Lock for safety

TRI-HOLE LITE STRIPPERS



DESCRIPTION

3 factory set stripping guides similar to the standard tri-hole stripper (above), but in a lighter, more portable size. Has a hook latch for safety.

FEATURES

- » Three factory set stripping guides: 2/3mm, 900µm, 250µm
- » Coated handles
- » Portable and lightweight design
- » Diamond shaped blades for optimum stripping
- » Lock for safety

ARAMID YARN SCISSORS



DESCRIPTION

Specially designed scissors for cutting through aramid yarn lined fibre patch cords. Made from hardened steel with sharp serrated blades and suitable for cutting a multitude of materials.

FEATURES

- » Sharp serrated teeth for cutting aramid yarn
- » Robust and durable
- » Ergonomic design
- » Can be used on other materials

STEEL TAPE ARMOUR CABLE CUTTING TOOL

FEATURES

- » Lightweight
- » Compact
- » Free rotating handle for ease of use
- » Adjustable height for varied cable diameter cutting
- » Robust, durable design

DESCRIPTION

Originally designed for stainless steel pipe cutting, this special wheel cutter for stainless steel is the perfect solution for cutting STA cable with a diameter from 3~38mm.



LARGE CABLE SHEATH SLITTING TOOL

FEATURES

- » Ergonomic design for finger grip
- » Works with standard 30-10 AWG (0.05-6mm²) wire in addition to fibre optic cable
- » Adjustable blades with a screwdriver for various size cables
- » Economical tool for multiple cables

DESCRIPTION

This is the perfect tool for cutting jackets from a variety of fibre optic cable. It features a V-opening mechanism to access the adjustable blade and a tightening screw for secure use.



MEDIUM CABLE SHEATH SLITTING TOOL

FEATURES

- » Cable sheath cutter in case
- » Adapter for up to 25mm diameter cables (grey)
- » Adapter for optical waveguide cables (yellow)
- » Allen key included
- » 4 adjustment positions
- » Double blade
- » Serrated gripper
- » Hand lever

DESCRIPTION

The cable sheath slitting tool is used for the longitudinal cutting of the plastic sheath of fibre optic cable. You can adjust the wall thickness to four pre-specified thicknesses.



ROTATING BLADE CABLE SHEATH SLITTING TOOL

FEATURES

- » Option for smaller diameter cables: 0.178 to 1.14 inches (4.5 - 29mm), or for larger diameter cables: 0.75 to 1.58 inches (19 - 40mm)
- » Blade depth can be regulated by simply turning the blade housing
- » Spiral cut for end stripping or mid-span stripping

DESCRIPTION

This simple yet robust design allows for stripping of cable sheaths with a rotating blade (operated by moving the adjustment lever) and pulling the cable through the cable guide. Suitable for applications requiring the slitting of loose-tube and tight buffered cable.



PALM-HELD CABLE SHEATH SLITTING TOOL

FEATURES

- » Enclosed design for safety purposes
- » Two adjacent blades for top and bottom sheath slitting
- » Choice of jacket size guides
- » 1.5~1.9; 2.0~2.4; 2.5~2.9; 3.0~3.3 diameters (mm)

DESCRIPTION

This small palm-held sheath slitting tool slits the cable on both the top and bottom of the sheath, allowing for easy removal of the outer sheath. Suitable for applications requiring the slitting of tight buffered cable.



CLEANING EQUIPMENT AND CONSUMABLES

CONNECTOR CLEANER CASSETTE



DESCRIPTION

Fibre optic connector cleaners utilise a specially formulated dry cloth for thorough and efficient cleaning of fibre optic end-faces. They eliminate the need for hazardous cleaning fluids that can leave a residue. The cloth is extremely effective in removing grease, dust and other contaminants.

FEATURES

- » Suitable for cleaning tasks in factories and field applications
- » Environmentally friendly
- » Achieves high quality cleaning without alcohol or other solvents.
- » Replaceable cleaning tape
- » This is an ideal tool for use when the connector face is available to you for cleaning
- » Specifically designed to clean ST, SC, FC, SMA D-4, DIN, and Diamond connector faces



Replacement Cleaning Reel
For the connector cleaning cassette

FUJIKURA ONE-CLICK™ CLEANER



DESCRIPTION

The One-Click™ connector cleaning tools cleans adapter mounted FC, LC, MU, SC and ST connectors with a simple single-action cleaning function (push/release). Effective with a variety of contaminants and with over 500 cleaning cycles per unit, it also has a remarkably low cost per clean. An adapter dust cap is supplied for cleaning either SC, ST & FC plugs or LC, MU plugs. Compliant with EU/95/2002/EC Directive (RoHS).

FEATURES

- » Cleans mounted adapters
- » One-action cleaning system
- » Effective with a variety of contaminants
- » Over 500 cleans per unit
- » Options: 1.25mm and 2.5mm
- » Adapter/dust cap supplied for cleaning MU & LC connectors
- » Compliant with EU/95/2002/EC Directive (RoHS)
- » Covered by US Patent No. 8,087,118

CONNECTOR CLEANING CARD



DESCRIPTION

Designed to replace hazardous solvents, this product easily and effectively removes interstitial and loose tube (thixotropic) filling & flooding compounds without damage to cable or fibre optic components (inks & delicate coating materials). This product has no skin or inhalation risk.

FEATURES

- » High cleaning capability
- » Convenient storage
- » Dry cleaning
- » Non-dischargeable body
- » The cleaning surfaces are individually sealed
- » Dust-free; covered with a lid when not in use

ECONOMY CLEANING CARD



DESCRIPTION

Made from disposable card. Designed for simplex connectors featuring 12 single-use cleaning windows. Just run the ferrule across the window in a 'Z' shape motion for effective cleaning.

FEATURES

- » High cleaning capability
- » Dry cleaning
- » Disposable and recyclable
- » Great economic alternative to the connector cleaning card

CLEANING EQUIPMENT & CONSUMABLES

PRE-SATURATED CYMENE WIPES

FEATURES

- » Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue
- » Can be used as a thinner for most fluxes
- » Safe on plastics and non-corrosive
- » Rapidly evaporating with zero residue
- » Non-ozone depleting
- » EPA SNAP approved
- » Individually packaged

DESCRIPTION

Pre-saturated cymene wipes are the perfect solution for removing jelly from loose-tube cables. These wipes are a tough, non-woven engineering wipe, impregnated with a quick evaporating cymene solution which is not only safer for sensitive skin, but also for the removal of loose-tube cable jelly filler.



PRE-SATURATED IPA WIPES

FEATURES

- » Cleans connector tips
- » Effective with a variety of contaminants
- » Compliant with EU/95/2002/EC Directive (RoHS)
- » Available in multiple quantities
- » Produced in Europe to European standards

DESCRIPTION

Pre-saturated wipes for general cleaning applications. These wipes are a tough non woven engineering wipe impregnated with quick evaporating IPA (Isopropyl Alcohol) for the removal of grease, grime and marking inks from all surfaces. Suitable for connector tip cleaning.



LINT-FREE WIPES

FEATURES

- » Disposable and lint-free
- » Soft, gentle, absorbent lint-free wipes for light-duty tasks
- » Easily picks up liquid and dust without scratching fragile surfaces
- » Economical delicate wipes; soft and non-abrasive
- » Dimensions: 100mm x 100mm
- » Quantity: 100 per pack

DESCRIPTION

Lint free wipes for the cleaning of optical fibres and connectors. Available in different quantities and sizes.



IPA ALCOHOL DISPENSER BOTTLE - 220ml

FEATURES

- » Siphon pump brings alcohol into the wipe when lid is pushed down
- » High density polyethylene suitable for many solvents
- » Metal screw lid, spring loaded cap
- » Wide opening = easy to refill
- » Translucent, allowing easy viewing of contents
- » Embossed incremental quantity markings (ml)

DESCRIPTION

The alcohol dispenser bottle is the perfect solution for having IPA cleaning alcohol to hand when cleaning fibre optic cable, connectors, adapters, attenuators and all necessary fibre equipment. It is a perfect addition to our Field Installable Connector tool kit. Its pump action feature means that pressing a wipe onto the top will bring alcohol up into the wipe, allowing easy, one-touch access. A flip lid prohibits fumes and odours, reduces waste and spills, and prevents evaporation of the IPA alcohol.



IPA ALCOHOL DISPENSER SPRAY - 60ml

FEATURES

- » Finger spray pump action
- » Complete and accurate warning label

DESCRIPTION

Handy spray bottle for dispensing diluted detailing products, IPA solutions, water, etc. Perfect as part of the full field kit (see page 47).



CLEANING EQUIPMENT & CONSUMABLES

1.25MM CLEANING STICKS



DESCRIPTION

1.25mm fibre optic cleaning swabs are easy to use and efficient, Delivering a consistently high level of cleaning performance. Perfect for cleaning LC and MU ferrule end-faces and various adapters.

FEATURES

- » 1.25mm flexible swab head conforms to the connector face
- » No adhesives, binders, or fibres to leave residues or contaminants
- » Cleans 1.25mm connectors and ferrules
- » Cleans test equipment ports

2.5MM CLEANING FOAM-BUDS



DESCRIPTION

OPTiFab 2.5mm foam swabs are made from 100 pores per inch medical grade polyurethane foam which has an open cell structure, providing excellent efficiency for picking up particle matter. The foam is thermally bonded to the swab handle without using adhesives. These swabs are economical and ideal for general fibre optic applications.

FEATURES

- » Traps surface particles while cleaning
- » High solvent capacity
- » Foam construction does not create loose fibres or particles
- » No adhesives or binders are used in its construction
- » Economical for high quantity applications
- » Fits 2.5mm fibre optic connectors
- » Soft polyurethane foam will not scratch surfaces
- » Swab head gently conforms to surfaces

POLISHING PUCKS



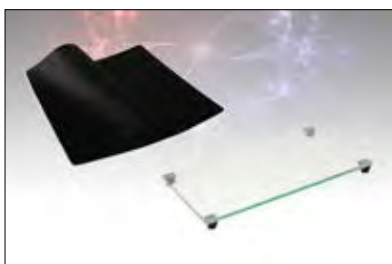
DESCRIPTION

Used in combination with the OPTiFab polishing mat and lapping film, the polishing pucks are used to hold the connector tip in place and at the correct distance and angle while polishing.

FEATURES

- » High quality metal construction
- » Available in SC/FC, LC and other options

POLISHING MAT & POLISHING PLATE



DESCRIPTION

The solid silicone polishing mat is used for polishing PC-style pre-radiused connectors.

The glass plate provides a hard, flat surface for polishing connectors and is produced from safety glass with all edges and corners rounded. Rubber feet help to ensure the plate will not mar the work surface and keep the plate from sliding.

FEATURES

- » Polishing mat: 240mm x 300mm size
- » Polishing plate: 100mm x 240mm and 240mm x 300mm sizes

LAPPING DISCS



DESCRIPTION

Lapping (polishing) discs are used to polish fibre optic connectors after the fibre has been epoxied into the ceramic ferrule. To use, move the connector tip over the polishing film, thereby removing excess material and polishing the fibre end. Different grades of polishing film are used in successive polishing cycles. Each polishing cycle uses a finer grit paper.

FEATURES

- » Available in packs of 25, 50, or 100
- » Different polishing grades (µm): 0.05, 0.25, 0.5, 1, 3, 5, 6, 9, 15 and others available on request
- » 127mm diameter
- » Available in diamond aluminium oxide 8.5" x 11"

CLEANING EQUIPMENT & CONSUMABLES

IPA (ISOPROPYL) ALCOHOL - 1 LITRE

FEATURES

- » Complete and accurate warning label with safety instructions
- » 1 litre size

DESCRIPTION

IPA (IsoPropyl Alcohol) cleaning solvent supplied in a 1L plastic bottle to ensure you always have IPA at hand for refilling the dispenser bottle or spray.



EPOXY SYRINGE

FEATURES

- » Blunt tip needle for safety reasons
- » 1 inch
- » 20 gauge
- » Needle lid provided

DESCRIPTION

Hand held 3cc syringe and needle sets, used to load connectors with epoxy prior to termination.



SHARPS BINS

FEATURES

- » Choice 5 litre, 600ml, 200ml and 30ml sizes
- » Robust and secure construction

DESCRIPTION

Glass fibre, by nature, is hazardous and can cause harm to the human body, especially if broken or in short-length shards. Therefore, correct disposal of damaged or cleaved fibre is essential for safety reasons. A sharps bin allows for a safe, enclosed disposal and is an essential part of any production or termination facility.



XL COMPRESSED AIR

FEATURES

- » Provides potent dust-removing power for practically any task
- » 100% ozone safe
- » Contains bitterant to dissuade solvent abuse
- » 300ml per can

DESCRIPTION

Ideal for use on fibre optic surfaces without the need for solvents or abrasives. Will not leave any residue.



Full Field Kit

We sell a fully prepared kit packed full of tools, cleavers, cleaning and consumable products!



SPONSORING IN OUR COMMUNITY

MK Dons Sport and Education Trust

Since 2013, Optifab International Ltd. have been proud active sponsors of MK Don's FC Disability team. We believe in the importance of anyone and everyone having the opportunity to participate in community activities, and MK Dons Sport and Education Trust has created the perfect organisational structure to deliver life changing programmes to community members.

To understand in more detail, please see the information below taken from their website (<http://www.mkdonsset.com/inclusion/disability/>):

There are 17 disability teams playing for MK Dons FC Disability in regional and national competitions.

Our ambition is to breakdown social and cultural barriers that gives all members of the community, regardless of age, gender, ethnicity or ability, the opportunity to participate in a sporting environment.

MK Dons SET currently offers football sessions across a variety of disabilities including:

- Severe physical and learning disabilities
- Moderate learning disabilities
- Challenging behaviour
- Attention Deficit Hyperactive Disorder
- Mental Health
- Visual impairment
- Deaf and hearing impairment
- Cerebral palsy
- Wheelchair users



Going forward...

As OPTiFab grows, we plan to not only invest in the research and development of our products and services for the benefit of our customers, but also insist on continuing to do our bit to help our community become a place with equal opportunities for all.

TERMS AND CONDITIONS

General:

In these terms and conditions the “customer” means the company, firm or person placing the order with Optifab International Ltd.

All products and services supplied or orders accepted are subject to these Terms and Conditions. No amendments to these Term and Conditions shall be binding unless they have been issued in writing and duly signed by an authorised company representative.

In the occurrence of conflict or inconsistency between the customer's order and the following Terms and Conditions, these Terms and Conditions shall prevail unless agreed in writing and duly signed by an authorised company representative.

Optifab International reserves the right to amend the following terms and conditions without notice.

Quotations:

Quotations submitted to the customer will be valid for a period of 30 days from issue, unless otherwise stated in writing, and shall be subject to Currency Variation (if issued in a currency other than pounds sterling).

Product specifications and availability are subject to change without prior notice.

Delivery:

Optifab shall not be liable to the customer in damages or otherwise for any delay in the delivery of products or performance of services. All lead times are given in good faith based upon information available at the time. Optifab will use all reasonable endeavours to adhere to the customer's delivery times.

Prices are quoted on an ex works delivery basis, unless otherwise specified. Optifab has the option to charge for the shipment to the customer's delivery point, unless otherwise agreed.

Cable orders will be supplied to a length tolerance of plus or minus 10 per cent.

Confidential Information:

The customer must keep information provided by Optifab as confidential and not disclose to any third party without Optifab's prior written consent, whether it be commercial, technical or pricing information.

Prices:

Optifab prices may alter from time to time without notice to the customer.

Prices are quoted exclusive of Value Added Tax (VAT) which shall, if required by law, be added at the current rate and paid for by the customer, in accordance with the payment terms.

Payment:

Optifab standard payment terms are 30 days end of month, unless agreed in writing. All payments must be made in the currency billed on the original Invoice.

In the instance of overdue accounts Optifab urge all customers to get in contact if there is a problem in settling any Invoices. Customers who fail to inform Optifab will be placed on Credit Hold by the accounts department. Optifab allow a reasonable period of time for postal delay etc. if nothing is received and no contact is made the customer's account will automatically go on delivery hold. Any affected outstanding orders will be notified to the order placer at this time.

If the account is still overdue, with no satisfactory explanation, Optifab will issue a final demand by fax or email, 14 days after. In the event that a further 7 days pass and Optifab have still not received settlement or a satisfactory

explanation, the issue will be passed to Optifab solicitors. At this point the customer credit limit will automatically be removed. The credit limit will only be reinstated when the debt is paid and Optifab are satisfied the situation is not likely to be repeated.

If the issue re-arises and Optifab solicitors are to be involved for a second time, the credit facilities will not be re-instated.

Please note that if a customer is on hold, new purchase orders will still be accepted. When the hold is removed from the account, the goods will be allocated or ordered for shipment as soon as possible. Please note that if a customer is on credit hold, Optifab will not accept payment for any new orders until the overdue amount is cleared.

Risk:

The risk will pass to the customer when a shipment or part shipment has been delivered to the customer delivery point, or has been collected on behalf of the customer.

Liability:

The customer shall be fully responsible for ensuring the safe storage and safe installation of the products. It is the customer's responsibility to ensure that all instructions and warnings are passed to their employees and any third parties. Nothing in these Terms & Conditions shall make Optifab International liable for any consequential, including any expense liability loss claim or proceeding whatsoever caused by or arising out of the late delivery, non-delivery, unsuitability or incompatibility of the product.

Cancellation:

In the event of the goods being returned to Optifab, if the product and delivery have been carried out in accordance with the customer's original instructions then Optifab reserve the right to levy a cancellation charge, even on standard products.

Non-standard, built to order and modified products are non-cancellable, non-returnable and non-refundable. This includes items not already on order with the factory or in Optifab stock and deemed non-standard by Optifab.

Force Majeure:

Optifab shall not in any event be liable to the Customer in damages or otherwise for any failure to deliver or delay delivery of orders, for events or actions beyond Optifab's reasonable control, including but not limited to raw material/component shortages, machinery failure, strikes, industrial action, and acts of warfare or acts of God.

Law:

The headings used in these Terms and Conditions and in the order in which they are set out shall be ignored for the purpose of construction. These terms and conditions shall be governed by and construed in accordance with English law.

Returns:

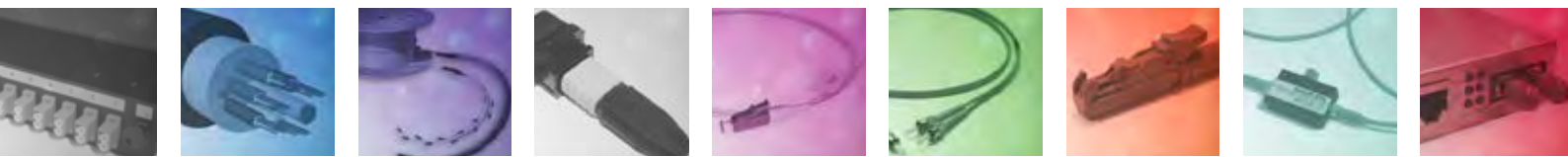
Any queries made with regards to products received (damaged goods, short shipments etc.) or claims to return goods, need to be submitted in writing within 3 days of receipt of goods.

No products shall be accepted for return and no credit will be raised without Optifab's prior written consent to the return.

For all refunds a credit note will be issue for the Invoice value of the goods (less the handling charge), unless agreed by the accounts department.

Retention of Title:

Legal title of the products shall only pass to the customer when all payments due from the customer have been received by Optifab in full.



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OPTiFab
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Products and Accessories

