



**OPTiFab**  
*International*  
Fibre Optic Networking  
Products and Accessories

# PRODUCT CATALOGUE 2015



# ABOUT US

## The Company

Optifab International is a leading UK fibre optic manufacturer and supplier based in Milton Keynes. We specialize 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 POF (plastic optical fibre) – 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. The company's 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 Organization for Standardization; the preferred solution for millions of organizations worldwide.

You can do business with OPTiFab knowing that all aspects of how business is conducted is documented and in line with stringent, internationally recognized 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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## HOW TO USE THIS CATALOGUE

### Digital Version

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## 10/100MBS MEDIA CONVERTER



### DESCRIPTION

Our media converter is used to convert and extend a 10/100 Mbps ethernet connection up to 2 km over multi mode SC fibre. The 10/100 multi mode fibre ethernet media converter creates an economical, cost-effective ethernet-fibre link, transparently converting to/from 10Base-T or 100Base-Tx ethernet signals and 100Base-Fx optical signal. Used to extend an ethernet network connection over an SC terminated multi mode fibre backbone.

### FEATURES

- » Auto negotiation function allows UTP port to auto select 10M or 100M, and Full Duplex or Half Duplex
- » UTP port supports MDI/MDI-X auto crossover
- » Link fault indicator function (LFP)
- » Available with SC, ST or FC connectors (single mode and multi mode)
- » Operating standards: IEEE802.3u, 10/100Base-TX and 100Base-FX



## DIN-RAIL MEDIA CONVERTER



### DESCRIPTION

Delta Range 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



## SFP TRANSCEIVER



### DESCRIPTION

The OPTiFab SFP Module adopts the latest 100Base-BX WDM bi-directional standards for transmission over a single strand of fibre, with one different wavelength going in each direction. With this LC SFP Module you can extend the network distance up to 15km when use in conjunction with an OPTiFab Switch or other equivalent Switches and provide high speeds and stability to your network.

### FEATURES

- » WDM Bi-Directional SFP Module
- » Supports WDM Bi-Directional technology, using a single strand of fibre
- » TX: 1310nm / RX: 1550nm
- » Internal +3.3V Power Supply
- » Plug-and-Play for easy installation
- » IEEE 802.3ah 100Base-BX, CSMA/CD, TCP/IP



## IFS 4-PORT 10/100 MEDIA CONVERTER

### FEATURES

- » Slim-type IP-30 metal case
- » Operating temperature from -10°~+60°
- » 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 (multimode 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-n-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 fiber via Small Form-format Pluggable (SFP) technology. This media converter can be custom configured to your exact system design specifications by utilizing 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 fiber configurations
- » RJ-45 1.25Gbps SFP available
- » Mini-GBIC Interface compliant
- » Multi-source 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 that have 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 receivers 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

Loopback 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.

### FEATURES

- » Common and proven technologies combined in the LC connector system
- » System delivers a high-performance and easy-to-implement fiber optic interface
- » Optimizes 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 is designed as a premium connector with superior performance characteristics. Its 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 feature 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 singlemode 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 singlemode 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 minimize ferrule debris
- » Ruggedized 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 from 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 1.25 mm 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 singlemode 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 singlemode 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 utilized 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.



# SPECIAL CONNECTORS

## LC MINI-CLIP CONNECTOR

### FEATURES

- » Minimized physical footprint
- » Reduced footprint saving space, and increase 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 centerline pitch from 6.25mm to 5.25mm, achieved with a specially designed duplexing clip. MINI-LC Duplex Connectors are available in singlemode and multimode 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 fibre, 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 housings provide external environmental, ingress/contamination protection for both the optical interface and enclosure systems. OPTi Plug assemblies are available in varying lengths and can be inter-terminated with most industry standard connectors. The OPTi Plug assemblies can 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 Singlemode or Multimode fibres
- » Available in 2, or 4 fiber 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 singlemode, multimode and APC applications. The APC connector is designed to provide superior return loss without sacrificing insertion loss.

### FEATURES

- » No epoxy and polishing required
- » Superior optical performance
- » Quick and easy fibre termination
- » High success rate of connections

### 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 preassembled 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 and polishing required
- » Only two (all-in-one type) or three pre-assembly parts
- » Quick and easy fibre termination
- » High success rate of connections

### ST FIELD INSTALLABLE CONNECTOR



### DESCRIPTION

An ST Field Installable Connector (FIC) is the most widely used fibre optic connector in FTTx that does not need epoxy or polishing. The pre-assemble 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 material to withstand high temperature and external shocks. It is available in several configurations to fit many different applications for singlemode, multimode and APC applications. The APC connector is designed to provide superior return loss without sacrificing insertion loss.

### FEATURES

- » No epoxy and polishing required
- » Only two pre-assembly parts
- » Quick and easy fibre termination
- » High success rate of connections

# 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, duplex configurations; and singlemode and multimode 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.



## KEYSTONE ADAPTERS

### FEATURES

- » Supports optical applications in bringing fiber to the desktop for both multimode and singlemode
- » Viable solution for high speed data transmission and broadband internet
- » Small Form Factor (SFF) adapter reduces space requirements by 50% over conventional fiber connectivity
- » 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 multimode and singlemode 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 adaptor range provides a combination of safety in FTTH applications and other applications as telecommunication networks. The shuttered design ensures the adapter remains dust free, increasing reliability and performances. The slip-on retractable cover acts as enhanced eye protection.



# PATCH CORDS SINGLE MODE

## DESCRIPTION

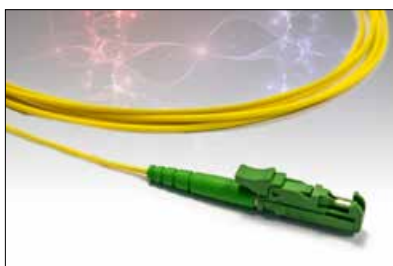
Singlemode optical fibre is characterised by its narrow modal dispersion (8.3 to 10 micron diameter); better retaining fidelity of light pulses and exhibiting higher bandwidth than multimode. As a result, singlemode fibre is ideal for long distance applications.

*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 - 0S2



### FC PATCH CORD - 0S2



### LC PATCH CORD - 0S2



### MPO/MTP PATCH CORD - 0S2



### MTRJ PATCH CORD - 0S2



### MU PATCH CORD - 0S2



### SC PATCH CORD - 0S2



### ST PATCH CORD - 0S2





# PATCH CORDS MULTIMODE

## FEATURES

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

## DESCRIPTION

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

*All patch cords available using G657A 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
- » Satisfy various request of markets and customers

### MODE CONDITIONING PATCH CORD



#### DESCRIPTION

OPTiFab Mode Conditioning patch cords are designed for longwave Gigabit Ethernet (1310nm/1000 base-LX) network applications where both singlemode and multimode 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



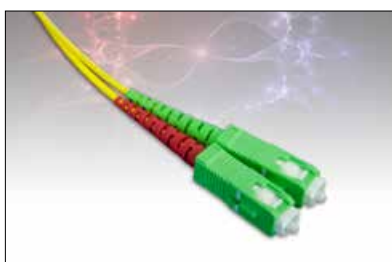
#### DESCRIPTION

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

#### FEATURES

- » Standard DLC 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 singlemode 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 1.8mm, yellow colour, zip-cord style
- » Each cable assembly is manually tested, verified, sealed and labeled

# PIGTAILS SINGLE MODE

## FEATURES

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

## DESCRIPTION

Singlemode 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 multimode. As a result, singlemode fibre is ideal for long distance applications.

*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

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

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

## FEATURES

- » Connector options: E2000, FC, LC, MTRJ, 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® RUGGEDIZED FAN OUT

### FEATURES

- » MPO/MTP fan-out to various connector: LC/SC
- » Utilizes round microcable
- » Precision Multifibre MT Ferrule
- » Push-pull latching
- » Male and Female connector type
- » OM1/OM2/OM3/OM4 Fibre types available
- » JIS C5982 & IEC 1754-7 Standard Compliant ITU G.657B

### DESCRIPTION

The high density MPO 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.



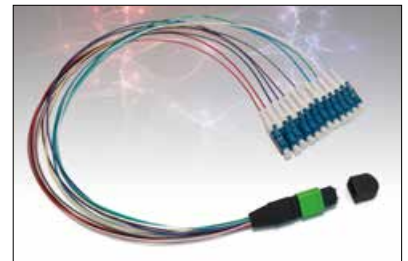
## MPO/MTP® 900 MICRON FAN OUT

### FEATURES

- » MPO/MTP fan-out to various connector: LC/SC
- » Utilizes round microcable
- » Precision Multifibre MT Ferrule
- » Push-pull latching
- » Male and Female connector type
- » OM1/OM2/OM3/OM4 Fibre types available
- » JIS C5982 & IEC 1754-7 Standard Compliant ITU G.657B

### DESCRIPTION

The high density MPO 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.



## 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 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-fiber MPO trunk cables and splitting them out to various patch cables. Each cassette comes fully populated internally with pre-terminated and tested MPO breakout cables, and are designed for fast and easy field installation with minimal training. Available in Multimode OM1 (62.5/125), OM2 (50/125), OM3 (50/125) & Singlemode OS1 (9/125) models

(Adapters not included but available on request)

### FEATURES

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



## MPO/MTP® 3 CASSETTE PATCH PANEL



### DESCRIPTION

Rackmount 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-guage steel, with a variety of powder coated finished 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 cables are connected directly to the cassettes
- » Supplied with fibre-management kit
- » RoHS Compliant

## MPO/MTP® 13 CASSETTE 3U RACK



### DESCRIPTION

Rackmount 19-inch 3U MPO cassette holder features room for 13 vertically stacked MPO/MTP cassettes. If cage nuts are required please see page 25 in our fibre management section

### FEATURES

- » Room for up to 13 MPO/MTP cassettes
- » 3U height
- » Cable management in rear for easy organization of fibre cable
- » Cold rolled steel material
- » Durable powdercoated finish



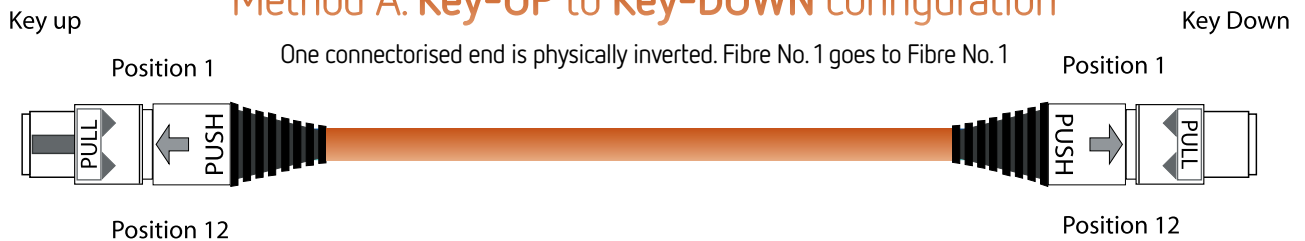


## MPO/MTP® POLARITY OPTIONS

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

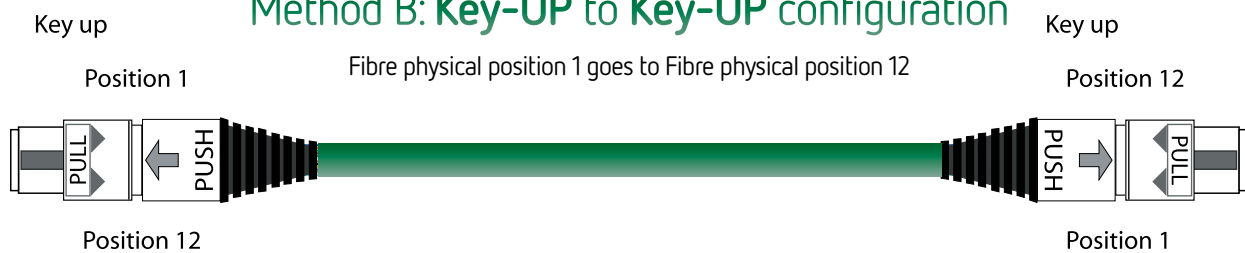
Maintaining polarity through the use of array cables requires careful planning. Multiple cable types, fiber counts, row counts, adapter types and transceiver protocols add up to a significant number of options. Please use the guide below to determine the correct cable polarity to use in your network.

### Method A: Key-UP to Key-DOWN configuration



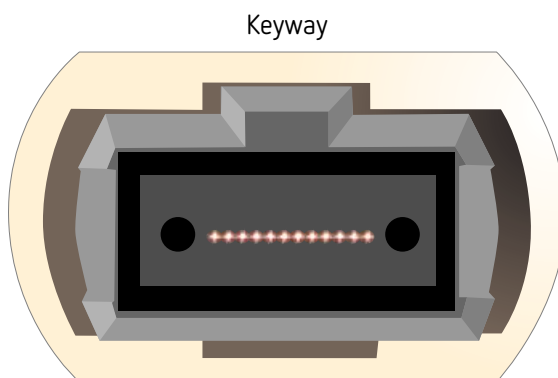
More typical configuration  
Available with angle-polished single mode connectors

### Method B: Key-UP to Key-UP configuration



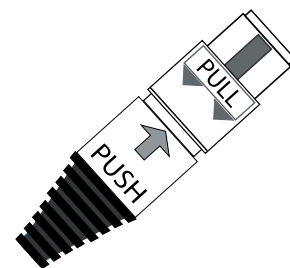
Available with angle-polished single mode connectors

### Connector: Endface

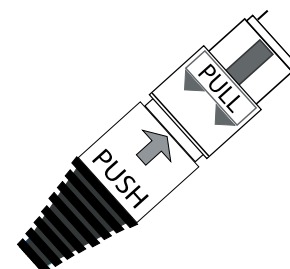


1 2 3 4 5 6 7 8 9 10 11 12  
Connector endface and pin position

### 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, fiber 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 Multimode Fiber (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. It offers a low power consumption, short reach interconnect applications. The cable each 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 customized

## QSFP MTP/MPO - LC DUPLEX BREAKOUT CABLE



### DESCRIPTION

This 40 Gigabit Ethernet QSFP 40GBase-SR4 to MTP(MPO)/LC (4 LC Duplex) varied length breakout cable, OM3, 50/125. The 40Gb QSFP MTP to LC/UPC breakout cable uses 8 core MMF 50/125um OM3 fibre (centre 4 are unused). It is made to connect to a QSFP module cable for a fanout and offers an aqua/turquoise jacket colour. The fanout side has 8 LC connectors that are duplexed together and numbered according to the fibre position in the MPO connector.

### FEATURES

- » Connector A) MPO female connector (No guide pins)
- » Connector B) LC/UPC
- » 40Gb pin-out configuration
- » Jacket Type: LSZH Rated (OFNR)
- » Jacket Colour: Aqua (blue)
- » Fibre Mode: Multimode 50 Laser Optimised OM3
- » Lengths available on request
- » Cable type: 3mm round to 2mm on the breakout side
- » Fibre Count: 8 fibers

# PRE-TERMINATED FIBRE

## MPO/MTP® FAN OUT

### FEATURES

- » Internal and External Use
- » Option for 2mm 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

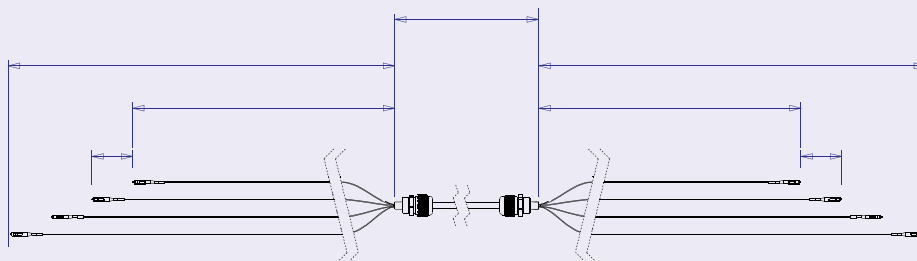
OPTiFab's pre-terminated fibre solutions allow our customers to order complete assemblies ready for direct installation, cutting on-site time and labour costs. Supplied on a drum with protective packaging to ensure that the fibre and all the components of the pre-term arrive in perfect condition. Internal/external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



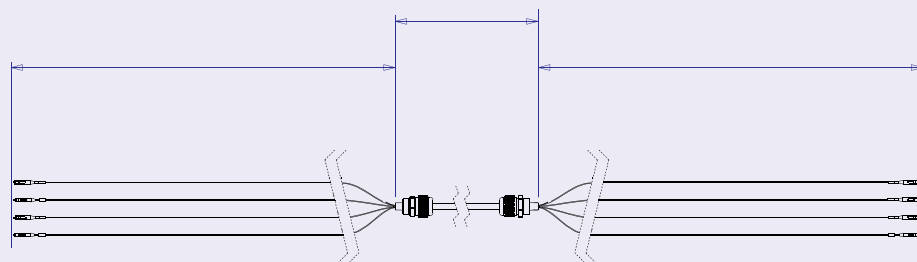
### Calculating Pre-term Assembly Length

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

#### Staggered-Length Configuration



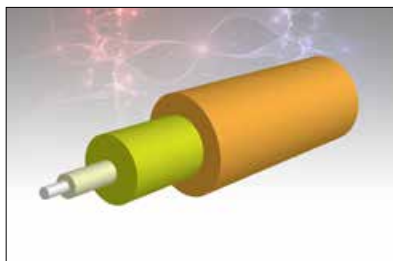
#### Fan-out Configuration



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

# CABLE TIGHT BUFFER

## 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



low-smoke  
zero halogen



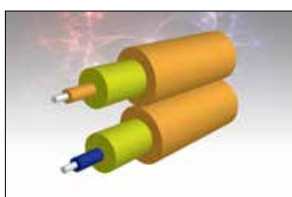
flame  
retardant



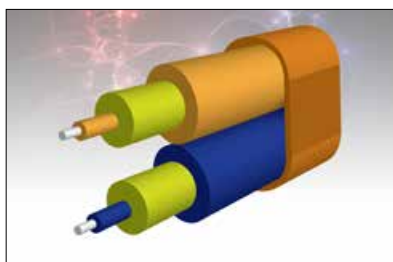
moisture  
protected



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



low-smoke  
zero halogen



flame  
retardant

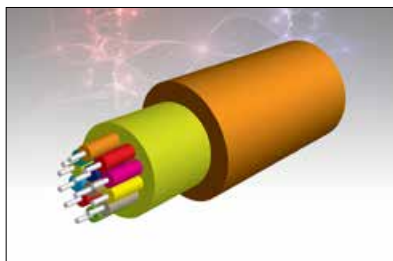


moisture  
protected



highly flexible

## TIGHT BUFFER 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

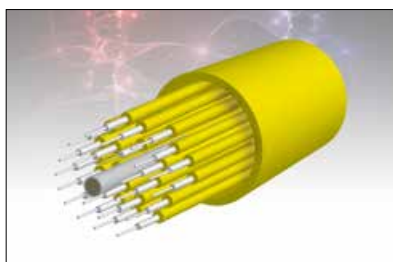


moisture  
protected



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
- » LSZH1 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



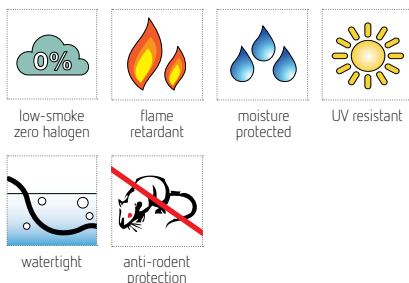
flame  
retardant



moisture  
protected

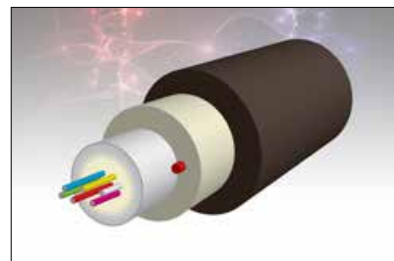
# CABLE LOOSE-TUBE

## SINGLE LOOSE-TUBE CABLE 2-24 CORE

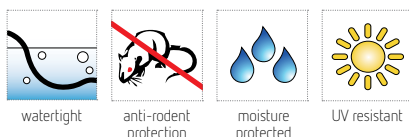


### FEATURES

- » 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 and colour
- » OS2, OM1, OM2, OM3 and OM4

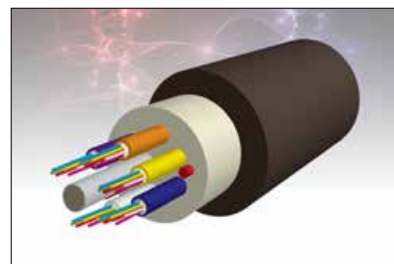


## MULTI LOOSE-TUBE CABLE 48-144 CORE

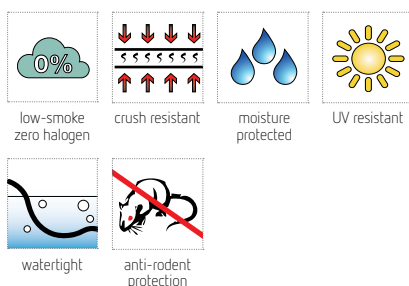


### FEATURES

- » 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 and colour
- » OS2, OM1, OM2, OM3 and OM4

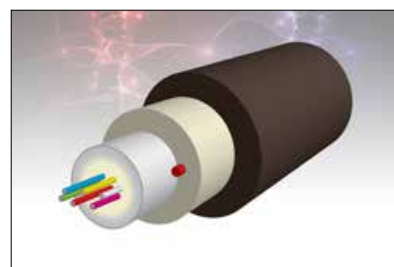


## STEEL TAPE ARMOUR SINGLE LOOSE-TUBE CABLE 2-24 CORE



### FEATURES

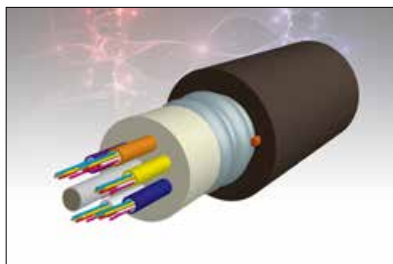
- » 250µm colour-coded optical fibre
- » Gel filled loose-tubes for fibre lubrication and water repelling properties
- » Ripcord
- » Durable outer jacket
- » Corrugated Steel Tape for superior protection
- » Choice of fibre type
- » Choice of colour coded fibres
- » High strength aramid-yarn strength member
- » Choice of outer jacket material and colour
- » OS1, OM1, OM2 and OM3
- » Able to withstand impacts 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 and colour
- » OS1, OM1, OM2 and OM3
- » Able to withstand impacts and high pressure



low-smoke  
zero halogen



crush resistant



moisture  
protected



UV resistant

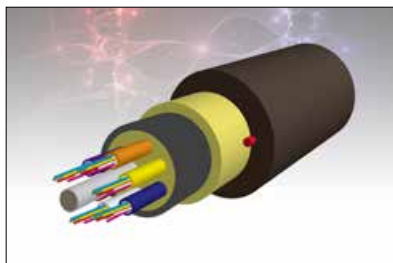


watertight



anti-rodent  
protection

## ALL-DIELECTRIC SELF-SUPPORTING (ADSS) CABLE



### FEATURES

- » Central Filler
- » Loose tube (jelly filled)
- » Inner jacket
- » Aramid
- » Ripcord
- » Outer jacket
- » Excellent mechanical resistance
- » Totally dielectric
- » Tough
- » Resistant
- » High density of fibres
- » Self-supported aerial applications.



aerial cable



moisture  
protected



UV resistant

# SLIDING PATCH PANELS

## FEATURES

- » Interchangeable face plate, hidden screws on base
- » ST, FC, SC-Simplex, SC-Duplex, LC-Duplex, LC-Quad
- » Minimum Fibre Capacity = 24
- » Maximum Fibre Capacity equal to 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 1U rack-mounted LC Sliding Patch Panel is available unloaded or pre-loaded with up to 24 LC duplex adapters, multi mode or single mode. It features 4x 20mm cable entry/exit holes, and 2x 10mm blown fibre holes.

The panel features 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



### 3x SC/LC CASSETTE>MPO/MTP



## FEATURED PATCH PANEL

### STAINLESS-STEEL SLIDING PATCH PANEL

#### FEATURES

- » Interchangeable face plate with hidden screws on base
- » **Raw Stainless Steel Finish**
- » ST, FC, SC-Simplex, SC-Duplex, LC-Duplex, LC-Quad
- » Minimum Fibre Capacity = 24
- » Maximum Fibre Capacity equal to 96-Fibres (LC-Quad)
- » Fixed and Sliding configurations
- » RoHS Compliant
- » Supplied with fibre-management kit



# CLOSURES

## HORIZONTAL SPLICE CLOSURE - 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.

### FEATURES

- » Material: PC
- » 2 inlet, 2 outlet Splice Closure
- » Fire resistant, waterproof, and quake-proof
- » Max.Capability: 192 cores
- » Cables Entry & Exit: 2-Entry, 2-Exit
- » Tested and inspected to the highest standards

## CONNECTOR-ADAPTER DOME CLOSURE - IP68 RATING



### 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

### FEATURES

- » Material: PC
- » Unique connector-adapter system
- » Solid and secure
- » Sealing Structure : Heat shrinkable Sealant

## DOME CLOSURE - IP68 RATING



### DESCRIPTION

Our dome enclosure is convenient to install and requires no specialist tooling. It is suitable for aerial, underground, wall-mounting, handhole mounting and duct-mounting applications. Made from injection-molded, 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

### FEATURES

- » Max Capacity: 144 cores
- » Cables Entry & Exit: 3 Entry; 3 Exit
- » Sealing Structure : Heat shrinkable Sealant
- » Fibre management tray

## COMPACT FIBRE CLOSURE - IP68 RATING



### DESCRIPTION

This is our latest product to compliment 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

- » 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

# FIBRE MANAGEMENT

## MECHANICAL FIBRE SPLICE

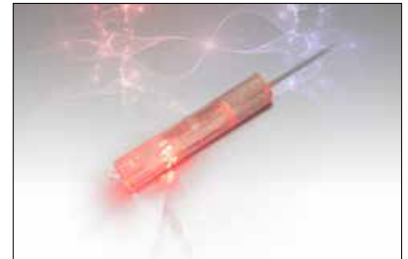
### FEATURES

- » Transparent body for immediate connecting confirmation
- » Co-Axial Self Centring 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 Multimode applications. It's design features 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 repairing any damaged fibre lines.



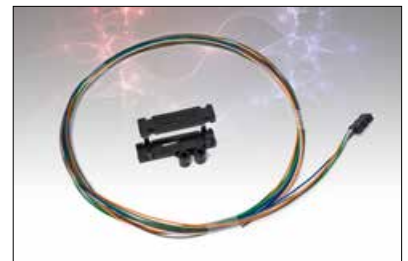
## FAN-OUT

### FEATURES

- » Snap-together furcation unit allows you to make fast and simple terminations without the use of epoxy or gels
- » Fanout 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 fanout 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 organized 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/Wallboxes
- » The Standard M6 Connector Type for 19" technology
- » Choice of quantity and finish

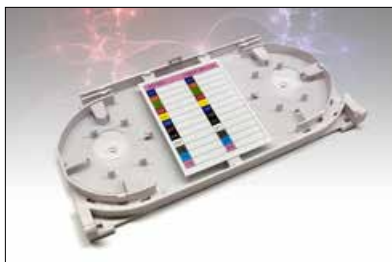
### DESCRIPTION

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

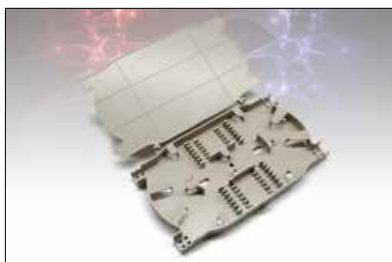
## LARGE COLOUR-CODED 24 FIBRE SPLICE TRAY



## MULTI-STACK HINGE OVAL SPLICE TRAYS



## MEDIUM 24 FIBRE SPLICE TRAY



## SMALL 12 FIBRE SPLICE TRAY



## SPLICE BRIDGE / SPLICE HOLDER



### DESCRIPTION

Two piece black plastic splice holder, suitable for 12 or 24 (piggy backed) fusion splices. Non-Adhesive back, location in the panel can be made with a single screw/bolt within the middle of the moulding base.

### FEATURES

- » Max Capacity: 12 fibre splices
- » Super compact design

## 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 85°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
- » Meet 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 FTTX 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.

### FEATURES

- » Wall mounted and rack mounted applications
- » Sliding protective lid
- » Suitable for SC, ST, FC, 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.

### FEATURES

- » Wall mounted and rack mounted applications
- » Unique clip attachment cover for convenient access
- » Suitable for SC, ST, FC, 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.

### 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.

### 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.



## 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.



## 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.



## 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 singlemode and multimode networks.



# 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.



## 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.



## 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.



## WALL BOXES

### 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
- » IP 65
- » Integrated bend radius protection
- » Sealing glands for up to 24 exiting cables + 1 incoming cable
- » Lockable door
- » ROHS, REACH & SvHC compliant
- » Supplied with 24 heatshrink 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. 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.



### IP65 SPLITTER TERMINAL WALL BOX

#### FEATURES

- » Up to 36 fibres
- » Removable splice tray for easy installation
- » Multiple adapter options available
- » 6 adaptor positions
- » IP 65
- » 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. Suitable for both SC Simplex and LC Duplex adaptor 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.



### IP65 PLC CASSETTE BOX

#### FEATURES

- » ABS with PC ensures the body strong and light.
- » Water-proof design for outdoor uses.
- » 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 working under both indoor and outdoor environments. It is a perfect cost-effective solution-provider in the FTTx networks.





## WALL BOXES

### IP65 12 FIBRE PLASTIC WALL BOX

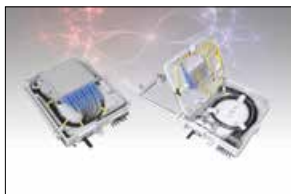


#### DESCRIPTION

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

#### 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 kits 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

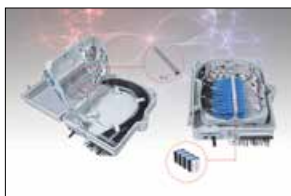


#### DESCRIPTION

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

#### 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 kits 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 SNAP-LOCK WALLBOX



#### DESCRIPTION

This Snap-Lockable IP65 distribution box offers the ability to terminate 16 fibres housed in an ABS, IP65 rated. Suitable for both SC Duplex and LC Quad adaptor types.

Can be used internally and externally. Offers up to 24 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.

#### FEATURES

- » Up to 16 fibres
- » Snap-lock doors
- » Removable splice tray for easy installation
- » Multiple adaptor options available
- » 6 adaptor positions
- » IP 65
- » Integrated bend radius protection
- » Sealing glands for up to 24 exiting cables + 1 incoming cable
- » Lockable door
- » ROHS, REACH & SvHC compliant
- » Supplied with 24 heatshrink splice protectors, transit tubing, wall fixings and tie wraps



## WALL BOXES

### IP65 EXTRA-LARGE LOCKABLE WALLBOX

#### 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 adaptors (FC, SC Simplex, LC Duplex 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.



### 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.



### DEEP 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, or blank
- » 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

Our internal, single door lockable wall boxes provide a very cost effective and secure method of terminating fibre optic cables, and are a great alternative to standard 19" data cabinets or patch panels.

The quality of construction of our range of wall boxes is second to none and can be configured with the adaptors and accessories of your choice.



## TAMPER-PROOF WALL BOXES

### DESCRIPTION

This terminal box terminates up to 12 fibres. It is a perfect cost-effective solution-provider in the FTTx 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 adaptor plate
- » Can be supplied unloaded or preloaded

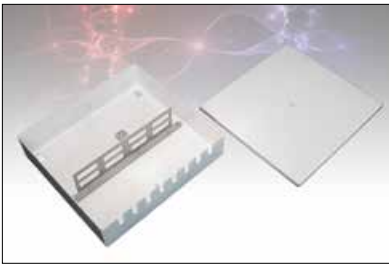
#### 6-PORT SC DUPLEX/LC QUAD



#### 8-PORT ST/FC



#### 8-PORT SC DUPLEX/LC QUAD



## BREAKOUT WALL BOXES

### DESCRIPTION

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

### FEATURES

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

#### 6-PORT LC QUAD/SC DUPLEX



#### 8-PORT FC/ST



#### 8-PORT LC DUPLEX/SC SIMPLEX



# TEST AND MEASUREMENT

## PEN-TYPE VFL (VISUAL FAULT LOCATOR)

### FEATURES

- » 2.5mm universal connector (1.25mm connector optional)
- » Operates either in 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

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; and it can find faults in an OTDR dead zone and is used for end-to-end visual fibre identification.



## OPTICAL POWER METER WITH VFL (VISUAL FAULT LOCATOR)

### FEATURES

- » Wide measurement range; High resolution: 0.01dB; Good accuracy:  $\pm 0.2$ dB
- » Insertion loss test in dB
- » SM or MM applications
- » FC, SC & 2.5mm UPP, ST (optional)
- » 850/1300/1310/1490/1550/1625nm calibrated wavelengths
- » Data storage
- » Built in VFL (optional)
- » Energy save mode
- » Reference value storage
- » Full energy can support above 100 hours 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. This device can also act as a Visual Fault Locator



## OPTICAL POWER METER

### FEATURES

- » Wide measurement range; High resolution: 0.01dB; Good accuracy:  $\pm 0.2$ 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 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 multi wavelength laser source: 850/1300/1310/1550nm, and can test the loss of the fibre with the optical power meter. Finally it can provide a reference for power meter and variable attenuator.

### FEATURES

- » High stabilization
- » 270, 1000, 2000 Hz Tone
- » LCD display
- » Low battery indicator
- » Battery charge indicator
- » Power output adjustable
- » Energy save mode: about 10 minutes no operation will cause the device automatic power off (can be cancelled)
- » Full energy 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
- » Indicate 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
- » Build in visible fault locator
- » 1mW or 10mW optional
- » Low-battery indication
- » Powered by 2 units of 1.5V AA alkaline batteries



# SPLICERS AND CLEAVERS

## FUSION SPLICER I

### 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
- » Engineered to resist dust and wind
- » Splicing modes: Auto and manual
- » USB Port
- » Stores up to 6,000 groups of splice results

### DESCRIPTION

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.



## FUSION SPLICER II

### FEATURES

- » High precision splicing
- » User friendly GUI
- » Quick optimize menu
- » Operates
- » Withstands harsh weather conditions;
- » Dust-proof, Anti-shock, Wind-proof, Water-resistant
- » USB master port
- » Operates in Bi-directional view
- » 2.2kg (w/o battery)

### DESCRIPTION

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.



## CLEAVERS

## FIBRE CLEAVER WITH AUTO RETURN

### FEATURES

- » Easy To Use
- » Small size
- » Easy Handling
- » High cutting quality
- » Auto return blade feature

### DESCRIPTION

A small, compact and outstanding quality fibre cleaver, this is designed for excellent portability, and is ideal for use on the field with the OPTiFab Field Installable Connectors (FIC) or in FTTx applications. Available in various versions, including ones with an auto-return feature (CLEAVER-10A), narrow lid (CLEAVER-10B) and a fibre-collecting dustbin (CLEAVER-10C). Can be included in part of a termination kit.



# CLEAVERS

## FIBRE CLEAVER WITH AUTO RETURN (NARROW LID)



### DESCRIPTION

A small, compact an outstanding quality fibre cleaver, this is designed for excellent portability, and is ideal for use on the field with the OPTiFab Field Installable Connectors (FIC) or in FTTx applications. Available in various versions, including ones with an auto-return feature (CLEAVER-10A), narrow lid (CLEAVER-10B) and a fibre-collecting dustbin (CLEAVER-10C). Can be included in part of a termination kit.

### FEATURES

- » Easy To Use
- » Small size
- » Easy Handling
- » High cutting quality
- » Auto-return blade feature
- » Narrow lid for ease of handling and weigh saving



## FIBRE CLEAVER WITH FIBRE COLLECTOR



### DESCRIPTION

A small, compact an outstanding quality fibre cleaver, this is designed for excellent portability, and is ideal for use on the field with the OPTiFab Field Installable Connectors (FIC) or in FTTx applications. Available in various versions, including ones with an auto-return feature (CLEAVER-10A), narrow lid (CLEAVER-10B) and a fibre-collecting dustbin (CLEAVER-10C). Can be included in part of a termination kit.

### FEATURES

- » Easy To Use
- » Small size
- » Easy Handling
- » High cutting quality
- » Fibre collecting dustbin for safety



## RATCHET CRIMP TOOL

### 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
- » Engineered to resist dust and wind
- » Splicing modes: Auto and manual
- » USB Port
- » Stores up to 6,000 groups of splice results

### DESCRIPTION

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.



## TRI-HOLE SURE-GRIP AND LITE STRIPPERS

### FEATURES

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

### DESCRIPTION

Tri-Hole "Sure-Grip" Fibre Strippers (left)  
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

Tri-Hole "Lite" Fibre Strippers (right)  
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.



## ARAMID YARN SCISSORS

### FEATURES

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

### 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.



## PEN CARBIDE CLEAVER

### FEATURES

- » Compact Pen Cleaver, made from lightweight Chrome plated Copper
- » Tip material, Carbide
- » Clip-on pocket storage
- » Weight, 30gms
- » Overall length 132mm
- » Ideal for OPTi-Lite Field Installable Connectors
- » 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



# CLEANING EQUIPMENT & 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
- » Achieve 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 tool cleans adapter mounted SC, ST & FC or LC, MU connectors with a simple single-action cleaning system (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 adapter mounted MU & LC connectors
- » One-action cleaning system
- » Effective with a variety of contaminants
- » Over 500 cleans per unit
- » 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 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

### 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 are soft and non-abrasive

### DESCRIPTION

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



## ALCOHOL DISPENSER BOTTLE

### 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
- » Embossed measurements, 25ml increments to 200ml
- » Square footprint for storage and stability
- » Wide opening – easy to fill
- » Translucent – allows easy viewing of contents

### 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, and is a perfect addition to our Field Installable Connector tool kit. It's pump action feature means that pressing a wipe onto the top will bring alcohol up into the wipe, allowing easy, one-touch access. Reduces fumes and odors, reduces waste and spills as well as evaporation of the IPA alcohol.



### Full Cleaning Kit Available!

Featuring any selected cleaning products in a convenient, protective carry case







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