

LASER 2000

Contractor Portfolio



Solutions for Contractors

FFTx



HFC Networks



OTDR



Metro / Backhaul



Fusion Splicers



Custom Fibre Assemblies



Cleaning



Fibre Inspection



LASER 2000

+44 (0) 1933 461 666

sales@laser2000.co.uk

www.laser2000.co.uk/fibre-first

VIavi
ELITE
Partner

About Laser 2000

For over 30 years Laser 2000 has supplied test and measurement equipment for network builds. Working with best of breed global partners like VIAVI (formerly JDSU), US Conec, and INNO Instrument we provide the right tools to design, install, commission, certify, and troubleshoot optical networks.

Our portfolio offers exactly what is needed by contractors building networks on behalf of carriers. From fibre cleaning to layer 1 loss sets and from cleavers to core alignment splicers, we have what you need in your kit.

Our goal is to help you get in, get out, and get paid.

- Dedicated support team for contractors
- Book our demo van to come to you
- Get updates on best practice techniques
- Tap into the decades of experience in network installation of our engineers
- A finance team to support you. Order via credit card, or discuss a flexible longer term payment solution.

About VIAVI

VIAVI Solutions (formerly JDSU) helps organisations address their toughest network, application, and service performance challenges and successfully deploys the networks of tomorrow. Named as the leader in the global fibre optic test equipment market by independent research firm Frost & Sullivan for the sixth year in a row, VIAVI is an active member of all the major standards groups and bodies, helping to shape the future of the industry.

- Multi-award winning test and certification portfolio
- Helps contractors to install, test and certify infrastructure
- Ensures your task is done right – first time, every time

Get the job done in half the time!

VIAVI fibre certification solutions help technicians optimise their workflow while performing all the required tests for certification in half the time as legacy tools.

FIBRE NINJA TIP #16

VIAVI
Solutions

LASER 2000

Always keep your optical loss set calibrated

You can't certify a link with uncalibrated tools



Visit www.laser2000.co.uk/fibre-first to learn more

GET IN
GET OUT
GET PAID

Test and Certification Solutions for Contractors

FTTx – PON, Copper, xDSL Installation and Deployment

StrataSync™
ENABLED

FTTH, EPON, GPON

FTTH-SLM
READY



SmartOTDR
PON OTDR

FTTH-SLM
READY



MTS-2000
PON OTDR
FiberComplete

FTTH-SLM
READY



MTS-4000 V2
PON OTDR FiberComplete
MPO Switch



MP-60
USB Optic
Power Meter



FI-60
Live Fibre
Identifier



FFL-050/-100
Visual Fault
Locator (VFL)



Smart Pocket OLS
Optical Light
Sources



P5000i
Fibre
Inspection



FiberChek
Fibre
Inspection



OneExpert DSL



UFED



WiFi Advisor
WiFi Analyser Optimiser

Copper, xDSL, G.fast, MDU

HFC Networks and DOCSIS 3.1

StrataSync™
ENABLED

RFoG, EPON, GPON, HFC, DOCSIS



WiFi Analyser
Analyser/Optimiser



DSAM



ONX CATV



SmartOTDR
PON OTDR



MTS-2000
OTDR FiberComplete
CWDM/DWDM OTDR



MTS-4000 V2
OTDR FiberComplete
CWDM/DWDM OTDR



FI-60
Live Fibre
Identifier



FFL-050/-100
Visual Fault Locator (VFL)



Smart Pocket OLS
Optical Light Sources



MP-60
USB Optic Power Meter



P5000i
Fibre Inspection



FiberChek
Fibre Inspection



4100 Series Modules
OTDR and OSA



SmartClass 4800



MTS-5800

Ethernet, Business Services, CWDM

Test and Certification Solutions for Contractors

FTTA/Mobility – Cell Tower, DAS, C-RAN Installation and Deployment

StrataSync™
ENABLED

Cable and Antenna Analyser



**CellAdvisor
JD724**



**CellAdvisor
JD725**



MP-60
USB Optic
Power Meter



FI-60
Live Fibre
Identifier



FFL-050/-100
Visual Fault
Locator (VFL)



Smart Pocket OLS
Optical Light
Sources



P5000i
Fibre
Inspection



FiberChek
Fibre
Inspection

FTTH-SLM
READY



MTS-2000
OTDR
FiberComplete



**CellAdvisor
JD745/785**



MTS-5800

FTTH-SLM
READY



MTS-4000 V2
OTDR FiberComplete
CWDM/OTDR/DWDM

CPRI/OBSAI Network Testing

Cell Tower, DAS, D-RAN, Fibre Testing

Metro/Backhaul Characterisation and Turn-up

StrataSync™
ENABLED

Ethernet Ring/Mobile Backhaul

FTTH-SLM
READY



SmartOTDR

FTTH-SLM
READY



MTS-2000
OTDR
FiberComplete

FTTH-SLM
READY



MTS-4000 V2
PON OTDR FiberComplete
MPO Switch



FI-60
Live Fibre
Identifier



FFL-050/-100
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Smart Pocket OLS
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P5000i
Fibre
Inspection



FiberChek
Fibre
Inspection



4100 Series Modules
OTDR and OSA



MTS-5800

Ethernet Network Testing

Fusion Splicers



- High definition touch screen
- High storage capacity
- Fibre type detection
- Built with ruggedised structure
- 3 year warranty
- Splice training mode

**3 Year
Warranty**

Clad Alignment



VIEW 1



VIEW 3



Core Alignment



VIEW 5



VIEW 7

Ribbon



VIEW 12R

FIBRE NINJA TIP #27

LASER 2000

**Keep your
cleaver sharp**
Or your splice joins
will be lossy



Visit www.laser2000.co.uk/fibre-first to learn more

**GET IN
GET OUT
GET PAID**

Fibre Accessories



Laser 2000 offers a wide range of optical fibre-based cable assemblies for indoor or outdoor use. Cables can be customised to your specific requirements:

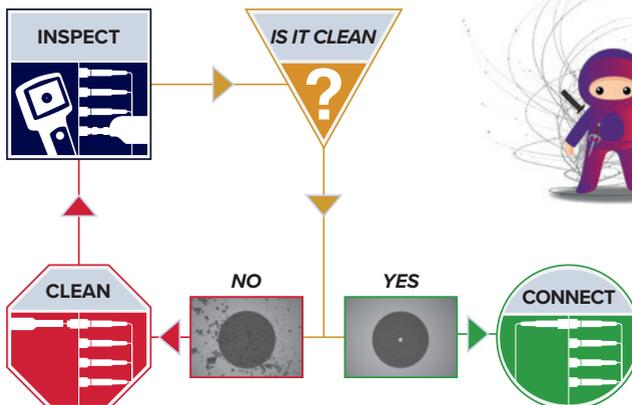
- Termination of multi-fibre cables with the connectors of your choice
- Cables can be supplied with pulling eyes/socks to allow pulling through ducting with ease
- MPO/MTP terminated cables
- Fibre loopback plugs for simplex fibre and MPO

We offer short delivery times and competitive pricing. Speak to our team about your requirements.

Optical Hygiene

With the ever increasing need for optical networks, fibre hygiene is becoming more critical. VIAVI's portfolio provides companies with the tools their fibre engineers need to inspect, document, and store all results.

VIAVI follow ITU guidelines across the product range to guarantee standards are maintained. By providing both port and connector inspection tips for all fibre connectivity, engineers can always inspect before they connect.



Cleaning



US CONEC

Fibre cleaning is used to reduce contamination of the fibre end-face and provide a quality connection between fibre optic equipment. Typical cleaning techniques use lint-free and anti-static micro-fibre fabric to achieve clean connections.

Typical contaminants range from 2 to 15 μm and include:

- Airborne dust
- Skin oil
- Salt water
- Hand lotion
- Clothing lint
- Residue
- Distilled water
- Alcohol
- Graphite

REMEMBER



- Microscopic debris can significantly affect signal performance and cause permanent damage
- Particles can break apart, spread, and migrate when dirty connectors are mated
- A typical dust particle is 2 to 15 μm and can only be viewed with a microscope

FIBRE NINJA TIP #22

VIAVI
VIAVI Solutions

Inspect before you connect!

Never trust factory inspected
equipment ports or fibre
connectors to be clean



GET IN
GET OUT
GET PAID

Focus on MPO Challenges

There is a new standard in fibre that used to be found only in the data centre but is now being used to support widespread 100G networks – MPO.

A 12-fibre MPO connector is about the same size as a duplex LC connector, but that's where the similarities end. We're all used to single-fibre connectors containing only one fibre but MPO supports multi-fibre in a single connector and to make things even more challenging that connector could actually have 4, 8, 12, or 24 fibres.

Before you even consider testing MPO there are some fundamentals to know about so you can identify what kind of MPO fibre you're working with.

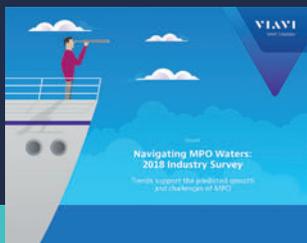
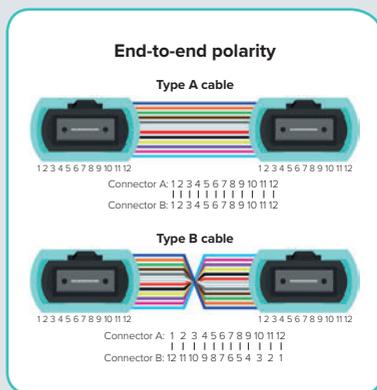
1) Male or female – this refers to the guide pins on the connector itself. My experience is that for male MPO you should only use a one-click pen cleaner, not the clettops style as the pins will tear the wipe.

2) Key up or key down – this helps you orient the connector, look for a white dot on the side of the connector, this signifies the location of fibre position 1.

3) Polarity – almost all the MPO fibres you will handle will be Type A or Type B and knowing the difference is really important.

Type A is straight through and the fibre position stays the same. Type B is a crossed fibre and the keys on the MPO cable connectors are in a key up position at both ends, but the fibre that is at connector P1 in one end is in P12 at the opposite end, and the fibre that is in P12 at the originating end is in P1 at the opposing end.

Now you are all set to test – check out our MPOLx and Sidewinder products online to see how you can speed up your testing to get in, get out, and get paid as quickly as possible.



Download VIavi's Report
Navigating MPO Waters: 2018 Industry Survey
 from www.laser2000.co.uk/MPO-Survey

LASER 2000

Your Expert Fibre Partner



VI.AVI

iNNOTM
INSTRUMENT

USCONEC

LASER 2000



FF019A

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sales@laser2000.co.uk

www.laser2000.co.uk/fibre-first

Laser 2000 (UK) Ltd, Unit 9, Avro Court, Ermine Business Park
Huntingdon, Cambridgeshire, PE29 6XS, UK

Company Registration No. 2695835 | VAT Registration No. GB 927 1191 28