FIBRE CABLING

Your complete guide to the UK's largest range of ex-stock fibre optic products.

OVER 100 NEW PRODUCTS

Contents

Next Generation Fibre Optic Made Easy

Not more new standards?

Well, yes and no. The ISO11801 standard redefines the terms used to specify the performance capability of current and well known fibre cables and also feature some new specifications, which are being commonly referred to as ‘next generation’.

So what does it mean?

Basically it’s all about the ability of particular cable types to support current and emerging protocols over specific distances. The introduction of these new terms will make the design of fibre networks and the choice of cables used far easier. It will be a case of defining the type of protocol to be run on the system, such as 10 Gigabit Ethernet and the distance over which you want this to work, say 300 metres and you will get to the required cable standard, in this example – OM3.

Hold on! 10 Gigabit Ethernet? I’ve only just started selling Gigabit switches!

Time waits for no man, especially in this market! The standard for 10 Gigabit Ethernet has been defined. Products are already shipping from the major switch vendors and wide spread adoption is expected, initially from service providers, followed by corporate end users.

But why?

Users want faster networks and are sending bigger files. As more networks implement Gigabit Ethernet to the desk, a potential bottleneck problem is lurking in the backbone. Server and backbone links will have to cope with increasing workloads and they will need to do it quickly. The networks of the near future will be built with 10 Gig backbone or ‘core’ devices and 1 Gig user or ‘edge’ switches.

Also think about the way we use our networks today, they are not just there for word processing, daily use of the Internet, large graphic files and video streaming all place increased demands on the network infrastructure.

OK, I understand. So what does this OM3 fibre do?

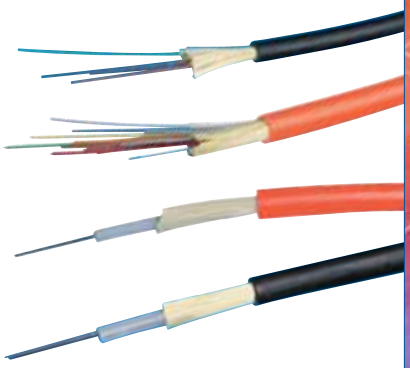
Basically it allows multi Gigabit applications to operate over sensible lengths of installed multimode fibre. These are key points. Firstly, it is a multimode 50/125 cable, exactly the same as you may have used before, same installation and termination practices, just a vastly improved bandwidth. This enables lower cost electronics to be used in the active kit when compared to other cable types such as Singlemode. Secondly lengths of up to 300 metres can be installed that will support 10 Gigabit Ethernet. Compare this to the current 62.5/125 grade fibre – which will be named OM1 – offering this support at well below 100 metres and you can see why users will start to demand Next Generation fibre cables.

Speed	Distance		
	300m	500m	2000m
100 Mb/s	OM1	OM1	OM1
1,000 Mb/s	OM1	OM2	OS1
10,000 Mb/s	OM3	OS1	OS1

OM1 & OM2 relate to current 62.5/125 & 50/125 respectively
OM3 is the new laser enhanced 50/125 fibre
OS1 is equivalent to singlemode G652 fibre

EXCEL Excellence In Networking
AMP NETCONNECT
Brand-Rex
MILLENNIUM
FLUKE networks
level one
Blolite blown fibre networking system
O.W.L.

Excel Internal/External Grade Fibre Cable – OM1/OM2/OM3/OS1



The Excel range of internal/external grade of fibre cables are available from stock in a choice of loose tube and tight buffered designs. Each of the cables are available with either black or orange low smoke zero halogen (LSOH) jackets.

Loose Tube Fibre

The cables are constructed around a silica gel filled tube containing up to 24 colour coded 250um buffered 62.5/125 or 50/125 fibres. This tube is covered with aramid strength members and a flame retardant and low smoke halogen free, outer sheath. For detailed specifications please turn to page 8.

Tight Buffered Fibre

The cables are constructed from a number of 900um buffered fibres which are colour coded and packed in water resistant rodent protected strength members. The outer sheath is both flame retardant and low smoke zero halogen. The design and construction of this range has resulted in a light, easy to install, cost effective cable. For detailed specifications please visit turn to page 8.

25 EXCEL WARRANTY

RANGE EXTENDED
- Tight Buffered SM Cables
- Steel Wire Armoured Cables
- Choice of Jacket Colour

FREE Cut to length service on ALL cables

62.5/125 OM1 / 50/125 OM2 / 50/125 OM3 / 9/125 OS1

Black Outer Sheath								
No. of cores	LT 62.5/125 OM1 Black	TB 62.5/125 OM1 Black	LT 50/125 OM2 Black	TB 50/125 OM2 Black	LT 50/125 OM3 Black	TB 50/125 OM3 Black	LT 9/125 OS1 Black	TB 9/125 OS1 Black
4	200-047	200-110	200-049	200-115	200-150	200-155	205-300	205-320
8	200-067	200-130	200-069	200-135	200-151	200-156	205-301	205-322
12	200-087	200-140	200-089	200-145	200-152	200-157	205-302	205-324
16	200-081	200-141	200-090	200-146	200-153	200-158	205-303	205-326
24	200-084	200-142	200-092	200-147	200-154	200-159	205-304	205-328
Orange Outer Sheath								
No. of cores	LT 62.5/125 OM1 Orange	TB 62.5/125 OM1 Orange	LT 50/125 OM2 Orange	TB 50/125 OM2 Orange	LT 50/125 OM3 Orange	TB 50/125 OM3 Orange		
4	205-250	205-255	205-260	205-265	200-150	200-155		
8	205-251	205-256	205-261	205-266	200-151	200-156		
12	205-252	205-257	205-262	205-267	200-152	200-157		
16	205-253	205-258	205-263	205-268	200-153	200-158		
24	205-254	205-259	205-264	205-269	200-154	200-159		

LT = Loose Tube TB = Tight Buffered

ANOTHER COLOUR?

For colours not shown please contact our sales team for minimum order quantities and lead time

Excel Internal/External Grade CST Fibre Cable – OM1/OM2/OM3/OS1

Loose Tube Fibre – Single Sheath Rodent Protected CST Armoured

Excel corrugated steel tape cables are available in OM1, 2, 3 and OS1 specification. The loose tube containing up to 24 fibres is packed in aramid strength elements. The steel tape and blue low smoke zero halogen rodent protected sheath complete the design.

For detailed specifications please turn to page 8.

25 EXCEL WARRANTY

FREE Cut to length service on ALL cables

Blue Outer Sheath				
No. of cores	62.5/125 OM1	50/125 OM2	50/125 OM3	9/125 OS1
4	205-270	205-275	205-280	205-305
8	205-271	205-276	205-281	205-306
12	205-272	205-277	205-282	205-307
16	205-273	205-278	205-283	205-308
24	205-274	205-279	205-284	205-309

Excel Internal/External Grade SWA Fibre Cable – OM1/OM2/OS1

NEW

AVAILABLE EX-STOCK

Loose Tube Fibre – Single Sheath Rodent Protected SWA Armoured

New to the Excel range steel wire armoured cables suitable for direct burial and the most demanding of installations. Available in OM1, OM2, and OS1 from stock these cables are constructed from standard single loose tube cables which are then packed into a flexible but strong fibreglass waterblocking strength member. An internal sheath of Black Low Smoke Zero Halogen material is then applied, a rip cord is inserted under this sheath to ease cable stripping. Lengths of steel wire armouring are then applied and a oversheath of Black Low Smoke Zero Halogen is added.

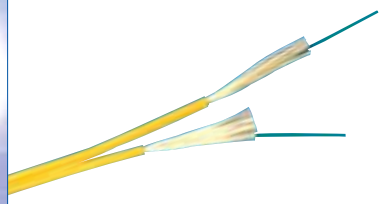
The cables shown in the table below are generally available from stock, if you require core counts or jacket colours not shown please call our sales office for availability details.

Black Outer Sheath			
No. of cores	**62.5/125 OM1**	**50/125 OM2**	**9/125 OS1**
4	205-340	205-348	205-356
12	205-344	205-352	205-360
24	205-346	205-354	205-362

Note: *Subject to lead times and manufacturer's minimum order quantities. We can supply other core counts and OM3 cables with steel wire armouring*

Excel Duplex Zipcord Cable – OM1/OM2/OM3/OS1

Excel zipcord is designed around two 2.8mm fibre cables. Available in 62.5/125 – OM1 Grade, 50/125 – OM2 Grade, 50/125 – OM3 Grade and 8/125 – OS1 Grade. This robust construction is ideal for short run indoor patching or for use where frequent handling is likely, for example equipment rooms or wiring closets. Each cable is jacketed in low smoke, zero halogen material and are available in a choice of colours. Fibres are buffered to 900 micron and can be used with standard connectors and adaptors.



NEW

62.5/125 OM1	Part Number
Zipcord Grey	215-135
Zipcord Blue	202-050
Zipcord Green	202-051
Zipcord Orange	202-052
Zipcord Red	202-053
Zipcord Yellow	202-054
50/125 OM2	**Part Number**
Zipcord Orange	215-120
Zipcord Blue	202-055
Zipcord Black	202-056
Zipcord Red	202-057
Zipcord Yellow	202-058
50/125 OM3	**Part Number**
Zipcord Orange	202-059
9/125 OS1	**Part Number**
Zipcord Yellow	202-060
Zipcord Blue	202-016

Note: *Each of these cables are subject to a minimum order quantity of 500 metres*

Excel Pre–Terminated Multicore Cable – Multimode and Singlemode

Reduce on-site installation time by buying a pre-terminated and tested assembly which is fully protected and suitable for pulling through cable ducts. Assembled using high quality components and internal/external LSZH cable this is the perfect solution for all backbone, campus or horizontal fibre optic cabling requirements. Supplied on a cable drum ready for rapid installation.

NEW

Features

- Reduces on site installation time
- Factory terminated and tested
- Perfect for disaster recovery
- Broad range of connector and cable types
- Available in lengths up to 2000 metres with lead time of typically 48 hours

Range Available

Cables

Specification	Choose from Multimode OM1, OM2, OM3 and Singlemode OS1
Construction	Loose tube and tight buffered multicore cables from 4 to 24 core. Ruggedised 2 core oval duplex cable.
Armouring Options	Loose tube corrugated steel tape (CST)
Outersheath Colours	Black and Orange in standard loose tube and tight buffered designs. Black and Blue in loose tube CST armoured designs. Orange and Grey (dependant on fibre specification) for ruggedised duplex cables

Connectors

Choose from ST, SC, LC and MTRJ

For prices and availability details please call our Sales Office

Excel Fibre Optic Cable Specifications

Optical Performance

Cable Type	Typical/Maximum Attenuation (dB/km)	Minimum Bandwidth (MHz/km)
	850nm - 1300nm	850nm - 1300nm
OM1 62.5/125	2.7/3.2 - 0.6/1.1	200 - 600
OM2 50/125	2.4/3.0 - 0.7/1.0	500 - 500
OM3 50/125	3.0 -	1500 -
	Typical/Maximum Attenuation (dB/km)	Dispertion Coefficient ps//(nm.km)
	1310nm - 1550nm	1310nm - 1550nm
OS1 9/125	0.32/0.4 - 0.21/0.3	3.0 - 18

Physical Characteristics

Loose Tube Cable		4 Core	8 Core	12 Core	16 Core	24 Core
Outside Diameter	mm	9.0 ± 0,5	9.0 ± 0,5	9.0 ± 0,5	9.0 ± 0,5	9.0 ± 0,5
Weight	kg/km	40	40	40	50	50
Drum Size	cm/2km	71 x 38	92 x 48	92 x 48	92 x 48	92 x 48
Max Installation Load	N	1500	1500	1500	1500	1500
Max Installed Load	N	1500	1500	1500	1500	1500
Min bend radius installation	mm	180	180	180	180	180
Min bend radius installed	mm	90	90	90	90	90
Operating Temp	°C	-30 to +60	-30 to +60	-30 to +60	-30 to +60	-30 to +60

Tight Buffered Cable		4 Core	8 Core	12 Core	16 Core	24 Core
Outside Diameter	mm	8.5 ± 0.5	8.5 ± 0.5	8.5 ± 0.5	8.5 ± 0.5	8.5 ± 0.5
Weight	kg/km	76	76	76	76	76
Drum Size	cm/2km	71 x 38	92 x 48	92 x 48	92 x 48	92 x 48
Max Installation Load	N	1500	1500	1500	1500	1500
Max Installed Load	N	1500	1500	1500	1500	1500
Min bend radius installation	mm	170	170	170	170	170
Min bend radius installed	mm	85	85	85	85	85
Operating Temp	°C	-30 to +60	-30 to +60	-30 to +60	-30 to +60	-30 to +60

Loose Tube CST Cable		4 Core	8 Core	12 Core	16 Core	24 Core
Outside Diameter	mm	10.6 ± 0.3	10.6 ± 0.3	10.6 ± 0.3	10.6 ± 0.3	10.6 ± 0.3
Weight	kg/km	135	135	135	135	135
Drum Size	cm/2km	105 x 53	105 x 53	105 x 53	105 x 53	105 x 53
Max Installation Load	N	2000	2000	2000	2000	2000
Max Installed Load	N	2000	2000	2000	2000	2000
Min bend radius installation	mm	212	212	212	212	212
Min bend radius installed	mm	106	106	106	106	106
Operating Temp	°C	-30 to +60	-30 to +60	-30 to +60	-30 to +60	-30 to +60

Loose Tube SWA Cable		4 Core	8 Core	12 Core	16 Core	24 Core
Outside Diameter	mm	13.0 ± 0.5	13.0 ± 0.5	13.0 ± 0.5	13.0 ± 0.5	13.0 ± 0.5
Weight	kg/km	270	270	270	270	270
Drum Size	cm/2km	120 x 53	120 x 53	120 x 53	120 x 53	120 x 53
Max Installation Load	N	6500	6500	6500	6500	6500
Max Installed Load	N	6500	6500	6500	6500	6500
Min bend radius installation	mm	260	260	260	260	260
Min bend radius installed	mm	130	130	130	130	130
Operating Temp	°C	-30 to +60	-30 to +60	-30 to +60	-30 to +60	-30 to +60

Non Standard Cables

In addition to the cables shown in this catalogue we are able to supply an entire range of 'non standard' specification cables designed for specific applications or installations conditions. Our relationships with the worlds most capable fibre cable manufacturers ensure we can offer quality, high performance cables with competitive prices, low minimum order quantities – typically just 2km – and fast delivery times. Below are some examples of the types of cables we can offer, for these or any other cable type please call our sales office for a quotation.

Composite Cables

The rapid increases in data rates and volumes are leading to a higher demand for cables with combinations of fibre types in the same cable. The different fibres can either be contained in separate loose tubes or mixed together in a single tube and identified through the fibre colour codes. Copper wires can also be included in some designs.

Military & Tactical Cables

Military users typically specify cables that can be deployed and retrieved in field conditions. These cables are, however, also used extensively for outside television broadcasts and in other circumstances where their toughness and ability to be re-used is an asset.

Non-Metallic Armour

Sometimes dielectric cables require additional protection that must, because of the dielectric requirement, be non-metallic itself. This can be, for example, because they are to be directly buried or require a higher degree of protection from rodents. For direct burial Glass Reinforced Plastic (GRP) rods are recommended, whilst fibre glass yarn armour can protect against rodents.

Special Sheathing

Whilst the majority of standard fibre optic cables are produced with LSZH or polyethylene sheaths, special circumstances can require the use of other sheathing materials. Cables may require enhanced resistance against chemicals or hydrocarbons and lead or nylon sheaths may be specified. In tropical areas, nylon sheaths may also be used to protect against termites.

Excel Fibre Optic Patch Cords – Multimode 62.5/125 OM1

The Excel range of patch cords are constructed from high quality connectors and 62.5/125 OM1 grade cable.
Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss. All of the patch cords come with an LSOH grey sheath and are individually bagged and labelled.

Length (Metre)	ST-ST Duplex	SC-SC Duplex	ST-SC Duplex	MTRJ-MTRJ Duplex	MTRJ-SC Duplex	MTRJ-ST Duplex	MTRJ-LC Duplex	LC-LC Duplex	LC-SC Duplex	LC-ST Duplex
1	200-290	200-500	200-600	200-762	200-766	200-700	200-164	200-181	200-185	200-189
2	200-300	200-510	200-610	200-763	200-768	200-701	200-165	200-182	200-186	200-190
3	200-310	200-520	200-620	200-764	200-767	200-702	200-166	200-183	200-187	200-191
4	200-311	200-521	200-621	–	–	–	–	–	–	–
5	200-320	200-530	200-630	200-765	200-769	200-703	200-167	200-184	200-188	200-192
6	200-322	200-522	200-631	–	–	–	–	–	–	–
7	200-323	200-523	200-632	–	–	–	–	–	–	–
10	200-324	200-524	200-634	202-012	–	202-015	202-009	202-000	202-003	202-006
15	200-326	200-525	200-635	202-013	–	202-016	202-010	202-001	202-004	202-007
20	200-329	200-526	200-636	202-014	–	202-017	202-011	202-002	202-005	202-008

NEW COLOUR **OM1 Leads NOW supplied in grey**

Excel Fibre Optic Patch Cords – Multimode 50/125 OM2

The Excel range of patch cords are constructed from high quality connectors and 50/125 OM2 grade cable.
Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss. All of the patch cords come with an LSOH orange sheath and are individually bagged and labelled.

Simply choose the fibre you require and call our sales desk for a quote.

Length (Metre)	ST-ST Duplex	SC-SC Duplex	ST-SC Duplex	MTRJ-MTRJ Duplex	MTRJ-SC Duplex	MTRJ-ST Duplex	MTRJ-LC Duplex	LC-LC Duplex	LC-SC Duplex	LC-ST Duplex
0.5	200-281	200-232	200-217	–	–	–	–	–	–	–
1	200-200	200-224	200-216	200-771	200-779	200-790	200-160	200-168	200-172	200-176
2	200-202	200-226	200-218	200-773	200-780	200-791	200-161	200-169	200-173	200-177
3	200-204	200-228	200-220	200-775	200-781	200-792	200-162	200-170	200-174	200-178
4	200-282	200-233	–	–	–	200-793	–	–	–	–
5	200-206	200-229	200-222	200-777	200-783	200-794	200-163	200-171	200-175	200-179
6	200-283	200-234	200-223	–	–	–	–	–	–	–
7	200-284	200-235	200-225	–	–	–	–	–	–	–
10	200-209	200-236	200-227	–	–	–	–	–	–	–
15	200-286	200-237	200-219	–	–	–	–	–	–	–
20	200-287	200-238	200-239	–	–	–	–	–	–	–

SOMETHING DIFFERENT? **For cables not shown, call our sales team. We offer a fast turnaround service for different coloured cables, connector types and lengths**

Excel Fibre Optic Patch Cords – Multimode 50/125 OM3

The Excel range of patch cords are constructed from high quality connectors and 50/125 OM3 grade cable.
Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss. All of the patch cords come with an LSOH orange sheath and are individually bagged and labelled.

Length (Metre)	ST-ST Duplex	SC-SC Duplex	ST-SC Duplex	MTRJ-MTRJ Duplex	MTRJ-SC Duplex	MTRJ-ST Duplex	LC-LC Duplex	LC-SC Duplex	LC-ST Duplex
1	200-001	200-005	200-013	200-021	200-028	200-035	200-043	200-054	200-062
2	200-002	200-006	200-014	200-022	200-029	200-036	200-044	200-055	200-063
3	200-003	200-007	200-015	200-023	200-030	200-037	200-046	200-056	200-064
5	200-004	200-008	200-016	200-024	200-031	200-038	200-048	200-057	200-070
10	–	200-009	200-017	200-025	200-032	200-039	200-050	200-058	200-071
15	–	200-011	200-018	200-026	200-033	200-041	200-052	200-059	200-073
20	–	200-012	200-019	200-027	200-034	200-042	200-053	200-061	200-075

Excel Pigtails – 62.5/125 OM1, 50/125 OM2/OM3 & 8/125 OS1

The Excel range of pigtails are constructed from high quality connectors and 62.5/125 OM1, 50/125 OM2 and OM3 grade cables. Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss.

Pigtail Type	Length (Metre)	62.5/125 OM1	50/125 OM2	50/125 OM3	8/125 OS1
ST	1	200-240	200-241	200-077	200-724
SC	1	200-550	200-551	200-078	200-723
MTRJ	1	200-718	200-716	200-079	200-720
LC	1	200-194	200-195	200-083	200-721

RANGE EXTENDED
- LC Now Available
- OS1 Now Available

Excel Fibre Optic Patch Cords – Singlemode 8/125 OS1

The Excel range of patch cords are constructed from high quality connectors and 8/125 OS1 grade cable. Each cable has a short strain relief boot and is supplied with a test report detailing insertion loss. All of the patch cords come with an LSOH yellow sheath and are individually bagged and labelled.

Length (Metre)	ST-ST Duplex	SC-SC Duplex	ST-SC Duplex	MTRJ-SC Duplex	MTRJ-MTRJ Duplex	LC-LC Duplex	LC-SC Duplex	LC-ST Duplex
1	200-251	200-261	200-255	200-660	200-668	200-678	200-686	200-694
2	200-252	200-262	200-256	200-662	200-670	200-680	200-688	200-696
3	200-253	200-263	200-257	200-664	200-672	200-682	200-690	200-698
5	200-254	200-264	200-259	200-666	200-674	200-684	200-692	200-699

RANGE EXTENDED

Excel Mode Conditioning Patchcords

NEW

Mode Conditioning Patchcords eliminate Differential Mode Delay (DMD) by moving the laser launch to an offset position away from the centre of multimode fibres. DMD occurs when a 'singlemode' laser signal is transmitted into the centre of a multimode fibre, causing multiple signals. These multiple signals can confuse the receiver and limit the operating bandwidth of Gigabit Ethernet. Mode Conditioning Patchcords are made up with one singlemode leg, which is then specially spliced to the multimode fibre to achieve the correct offset launch. The launch end is typically terminated with SC connectors.

Features

- Required for longwave multimode 1000 Base-LX Gigabit Ethernet transmission
- Eliminates Differential Mode Delay (DMD)
- Low loss performance
- Increases transmission distances by up to 4 times
- Robust transition point ensures accurate offset alignment
- Singlemode launch cable identified through yellow sheath
- Assemblies feature a 'Mode Conditioning' legend
- Easily distinguished from conventional patchcords
- Available in 62.5/125 or 50/125 multimode

For prices and availability details please call our Sales Office

Excel Fibre Optic Connectors – ST, SC and LC

The STII and SC single piece connectors are designed for quick and easy termination either on-site or in the factory. Suitable for use with both loose tube and tight buffered cable, can be used with cold cure termination system detailed in this section.

Strain relief boots are included, yellow for singlemode and black for multimode. By using the Excel SC Duplex Clip, two SC Simplex Connectors can be joined to form a single SC Duplex Connector.

The LC Connector is becoming the Small Form Factor (SFF) of choice. Occupying half the space of a duplex SC Connector, this product is ideal for high density applications such as Data Centres and Server Farms.

Features

- Individually bagged
- Highest quality ceramic ferrule
- Both 900um pigtail and 2 or 3mm cable boots included
- Simplex and Duplex options in SC and LC

Model	ST II Simplex	SC Simplex	LC Simplex	LC Duplex
Singlemode	200-319	200-361	200-351	200-349
Multimode	200-330	200-358	200-353	200-352
SC Connectors Accessories				
SC Duplex Clip	200-367	—		

RANGE EXTENDED
LC Now Avaiable

Excel Fibre Optic Adaptors – ST, SC, MTRJ and LC

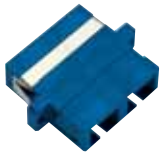
ST-SC Adaptors – ST to SC Adaptors are used to match cables or assemblies with different connectors, can be used either in-line or mounted in patch panels or faceplates.

ST-ST Adaptors – Standard construction ST in-lines available in either multimode or singlemode.

SC Adaptors – SC Duplex adaptors can be mounted in panels or wall plates and are suitable for use with both Simplex and Duplex SC connectors.

MTRJ Adaptors – The Excel MTRJ adaptor is a polymer body through coupler, designed to house one duplex MTRJ connector, ideally suited for patch panel, junction box and desk applications.

LC Adaptors – The Excel LC adaptor is a polymer body through coupler with RJ45 footprint, designed to house one duplex LC connector.



ST-SC Adaptors	Part Number
ST-SC Duplex Adaptor	200-735
ST-ST Adaptors	
ST Standard Adaptor, Locknut and Black ID Ring	200-350
ST Singlemode Bulkhead Adaptor	200-350-SM
SC Adaptors	
SC Duplex Adaptor, Multimode	200-365
SC Duplex Adaptor, Singlemode	200-366
MTRJ Adaptors	
MTRJ Duplex Adaptor	200-368
LC Adaptors	
LC Multimode Adaptor	200-363
LC Singlemode Adaptor	200-364

RANGE EXTENDED
LC Now Avaiable

Excel Fibre Optic Patch Panels

RANGE EXTENDED

Excel loaded patch panels are supplied with pre-configured adaptors for fast, easy installation. All patch panels are supplied with a cable management kit and cage nuts, cabinet installation is completed using the supplied fixing arms.

The MTRJ and LC connector series are small form factor (SMF) style options. Each adaptor accommodates a two fibre connector, resulting in a high density solution ideal for server farm, data centre and general high fibre count installations.

Panel Colour: Fixed panels are in goose grey in colour and sliding drawer panels are black.

The first column in each of the tables below shows the number of fibre terminations possible in each panel. For example, part number 1U-12-SCD-04M-DT has 4 SC Duplex Adaptors allowing 8 fibre terminations.

Features

- Choice of colour - Grey and Black
- Choice of design - Fixed or sliding drawer
- Choice of port density
- Available in multimode and singlemode
- Multiple pre stamped cable entry positions on rear
- Each panel includes a 24 way splice bridge, 2 x cable entry glands, 4 x self adhesive cable management ties, 4 x cage nut fixing set and blanks for unused ports

Fixed Fibre Optic Patch Panels - Pre Loaded - Grey

Number of Connectors	ST-MM	ST-SM	SC-MM	SC-SM	LC-MM	LC-SM
4	1U-16-ST-04M-DT	1U-16-ST-04S-DT	1U-12-SCD-02M-DT	1U-12-SCD-02S-DT	—	—
8	1U-16-ST-08M-DT	1U-16-ST-08S-DT	1U-12-SCD-04M-DT	1U-12-SCD-04S-DT	1U-24-LCD-04M-DT	1U-24-LCD-04S-DT
12	1U-16-ST-12M-DT	1U-16-ST-12S-DT	1U-12-SCD-06M-DT	1U-12-SCD-06S-DT	—	—
16	1U-16-ST-16M-DT	1U-16-ST-16S-DT	1U-12-SCD-08M-DT	1U-12-SCD-08S-DT	1U-24-LCD-08M-DT	1U-24-LCD-08S-DT
24	1U-24-ST-24M-DT	1U-24-ST-24S-DT	1U-12-SCD-12M-DT	1U-12-SCD-12S-DT	1U-24-LCD-12M-DT	1U-24-LCD-12S-DT
48	—	—	—	—	1U-24-LCD-24M-DT	1U-24-LCD-24S-DT

MM = Multimode SM = Singlemode

Sliding Drawer Fibre Optic Patch Panels - Pre Loaded - Black

Number of Connectors	ST-MM	ST-SM	SC-MM	SC-SM	LC-MM	LC-SM	MTRJ-MM/SM
4	200-377	200-427	—	—	—	—	—
8	200-378	200-428	200-401	200-480	200-460	200-470	200-490
12	200-379	200-429	200-405	200-481	—	—	200-491
16	200-382	200-430	200-406	200-482	200-462	200-472	200-492
24	200-384	200-431	200-407	200-483	200-464	200-474	200-494
48	—	—	—	—	200-466	200-476	200-498

MM = Multimode SM = Singlemode

Excel 4 Port ST Tamperproof Patch Box

The tamperproof patch box is finished in a white enamel which makes it ideal for workstation applications. With both termination and patching protected from unwanted tampering the box can be mounted anywhere. Applications include use within schools, factories, military and local authorities. The box has two designs for different cable entry options (16x32mm trunking and 20mm conduit). The 20mm cable entry version can also be used with a cable gland for securing the cable into the patch box.

NEW

Features

- White enamel finish for workstation applications
- A single lid covers terminations and patching
- Two cable entry options (16x32mm trunking and 20mm conduit)
- Supplied loaded with in-line ST adaptors

Technical Data

Dimensions: 163mm x 103mm x 37mm

Description	Part Number
4 Port ST T/proof Patch Box 20mm Conduit – Loaded	202-020
4 Port ST T/proof Patch Box 32x16mm Trunking – Loaded	202-022

Excel Fibre Optic Patch Boxes

We have an extensive range of ST and SC (Duplex) patch boxes suitable for wall, floor or desk mounting. With a 20mm knock out on every side and pre-drilled fixing holes. Ideal for conduit or cable gland entry this new range allows you to select the perfect box to suit your application. The number of ports shown denotes the number of adaptors. SC adaptors are Duplex style and offer two fibre connections per port.

NEW

Features

- One piece body construction eliminates fibre snagging
- Available in ST or SC (Duplex) connector styles
- Each unit includes the enclosure fitted out with in-line adaptors, 24 way splice bridge, cable entry gland and 4 x self adhesive cable management ties

Technical Data

RANGE EXTENDED

Dimensions:

ST Patch Boxes

04 Port - 110mm x 110mm x 40mm
08 Port - 160mm x 160mm x 40mm
12 Port - 160mm x 160mm x 80mm
16 Port - 160mm x 160mm x 80mm

SC Duplex Patch Boxes

02 Port - 110mm x 110mm x 40mm
04 Port - 160mm x 160mm x 40mm
06 Port - 160mm x 160mm x 80mm
08 Port - 160mm x 160mm x 80mm

No. of Ports	ST Loaded	SC Duplex Loaded
02	—	202-028
04	202-024	202-029
06	—	202-030
08	202-025	202-031
12	202-026	—
16	202-027	—

Note: *Each adaptor on the SC patch box will accept 1 x SC (Duplex) connector or 2 x SC (Simplex) connectors*

Excel 2 Door Fibre Optic Wall Mounted Enclosure

RANGE EXTENDED

These patch boxes are designed for high-density, secure terminations. Their two door design ensures that both the terminations and the patching are safe. The boxes have 20mm knockouts and pre-drilled fixing holes.

Features

- Manufactured with a one piece body, an interchangeable plate and hinged lockable doors
- ST and SC (Duplex) in-line adaptor plates available
- All boxes include the box itself and a fitted adaptor plate loaded with the appropriate number of in-line adaptors, 24 way splice bridge, cable entry gland and 4 x self adhesive cable management ties

Technical Data

Dimensions: 360mm x 250mm x 90mm

Description	Part Number
12 Port ST Lockable Patch Box – Loaded	202-035
24 Port ST Lockable Patch Box – Loaded	202-036
6 Port SC Duplex Lockable Patch Box – Loaded	202-037
12 Port SC Duplex Lockable Patch Box – Loaded	202-038

Excel 1 Door Fibre Optic Wall Mounted Enclosure

Illustration shows 200-987

The Excel lockable wall mounted enclosures provide a cost effective, secure method of terminating fibre where standard 19" cabinets and patch panels are not suitable. Each unit is supplied unloaded, just add to your chosen enclosure the required plate and adaptors. Standard wall box (200-987) includes Splice Management.

	Compact		Standard	
	250 x 250 x 55mm		370 x 330 x 80mm	
Wall Mounted Enclosure	200-985		200-987	
Adaptor Plates to suit above wall boxes	**ST**	**SC (Duplex)**	**ST**	**SC (Duplex)**
4 x Adaptor Plate	200-989	200-995	—	—
6 x Adaptor Plate	—	—	—	200-996
8 x Adaptor Plate	200-991	—	—	200-997
12 x Adaptor Plate	—	—	200-992	200-998
16 x Adaptor Plate	—	—	200-993	—
24 x Adaptor Plate	—	—	200-994	—
Compatible Adaptor	200-350	200-365	200-350	200-365

Excel Junction Splice Boxes

We have offers 2 specially designed metal enclosures for splicing fibre optic cables together. Suitable for wall or floor mounting, the one piece body design eliminates the possibility of fibres becoming snagged. With 20mm knock-outs in every face there is no need for drilling on site. Available as a 12 fibre unit with fixed lid assembly and a 24 fibre unit with hinged lockable front door.

Features

- One piece body eliminates fibre snagging
- Two sizes available: up to 12 fibres and up to 24 fibres
- Each Box includes a 24 way splice bridge, cable entry gland and 4 x self adhesive cable management ties

Technical Data

Dimensions:

12 Fibre Junction Splice Box - 160mm x 160mm x 42mm
24 Fibre Junction Splice Box - 210mm x 185mm x 65mm

NEW

Description	Part Number
12 Fibre Junction Splice Box – Splice Kit	202-040
24 Fibre Junction Splice Box (Lockable) – Splice Kit	202-041

Cold Cure Termination System – ST/SC Starter Kits

The Cold Cure Termination System is designed to provide a fast curing, no heat termination method for fibre cable on site. The system consists of an anaerobic adhesive and alcohol base activator which when used in conjunction produce a high strength bond in around 20 seconds. This starter kit contains all the tools required to terminate ST or SC connectors with microscope included if required.

Each Starter Kit Includes

- Polypropylene Case (x 1)
- Miller Strippers (x 1)
- Sapphire Scribe Tool (x 1)
- 3ml Syringe and Needle (x 5)
- Pack of 50 Tissues (x 2)
- 60ml Ultra IPA Spray (x 1)
- Disposal Bin (x 1)
- Polishing Puck (x 1)
- Polishing Pad (x 1)
- 5 micron Polishing Film (x 20)
- 0.3 micron Polishing Film (x 21)
- Termination Instructions (x 1)

Number of Connectors and Boots included	ST	SC
100	200-333	200-338
100, plus X 200 Microscope	200-336	200-341

Cold Cure Termination System – Connector Packs

The Cold Cure Connector Packs Include either ST or SC connectors and boots together with sufficient adhesive and activator to terminate approximately 200 connectors.

Description	ST	SC
100 x Connectors Plus Adhesive and Activator	200-332	200-343

AMP Lightcrimp Plus Termination Kit

AMP Lightcrimp Plus Termination and Adaptive Kits

Termination tool kits come with a professional carrying pouch and are equipped with all the necessary tools required to terminate field installable connectors. The LightCrimp Plus crimp tooling can also be used to crimp LightCrimp connectors. For existing users of LightCrimp or pre-polished connectors, Tyco Electronics offers tool kit upgrades to make the transition to LightCrimp Plus terminations easier and more cost-effective.

Universal No Epoxy/No-Polish Termination Kit (SC,ST,LC and MT-RJ)

Includes premium carry case, crimp tool SC, ST and LC style die sets, all-in-one stripper tool, Micro-Strip tool, Kevlar shears SC, ST and LC cable holder as well as cleave tool.

Deluxe Premise Termination Kit, MT-RJ Jack, Lightcrimp and Lightcrimp Plus

Includes premium carry case, crimp tool SC, ST and LC style die sets, all-in-one stripper tool, Micro-Strip tool, Kevlar shears SC, ST and LC cable holders, polishing plates/pads/pucks/films for Lightcrimp along with strip templates and actuator key.

Lightcrimp Plus LC Adaptive Kit

Includes crimp tool, LC die set, cable holder, cleave tool, carrying case and instruction sheet.

All kits come with a LightCrimp Plus connector termination instruction sheet and instructional video CD-Rom.

Description	Part No.	AMP Part No.
Lightcrimp Plus Universal Termination Kit	200-802	1278118-4
Deluxe Premise Termination Kit	200-827	1278949-2
Lightcrimp Plus LC Adaptive Kit	200-831	1754846-1

AMP Lightcrimp / Lightcrimp Plus – ST, SC and LC Connectors

Lightcrimp Plus Connectors offer consistent crimp quality and long term high performance on a par with that of a standard epoxy style. Lightcrimp Plus connectors meet the relevant TIA/EIA, IEC and EN optical and mechanical specifications and operates in temperatures ranging from -10°C to +60°C. Each connector is supplied pre polished and with a stub of terminated fibre in each, care should be taken to ensure the correct connector type is chosen to match the installed cable. They offer the easiest and quickest fibre termination available including the option to terminate LC style connectors. Termination can be completed within a minute.

Description	ST Simplex	SC Simplex	SC Duplex	LC Simplex	LC Duplex
Lightcrimp Plus Connector, 62.5/125 OM1	200-822 (492642-1)	200-842 (492643-1)	—	200-807 (1754483-1)	200-813 (1754485-1)
Lightcrimp Plus Connector, 50/125 OM2	200-824 (1278082-1)	200-844 (1278079-1)	—	200-812 (1754483-2)	200-814 (1754485-2)
Lightcrimp Plus Connector, 50/125 OM3	—	200-803 (1588291-1)	—	200-815 (1754483-3)	200-816 (1754485-3)
Lightcrimp Plus Connector, 9/125 OS1	—	200-817 (1693276-1)	—	200-819 (1754482-1)	200-821 (1754484-1)
Lightcrimp Ceramic Connector	200-820 (504600-1)	200-840 (503692-1)	200-850 (503693-1)	—	—
Lightcrimp Polymer Connector	200-830 (492168-1)	—	—	—	—

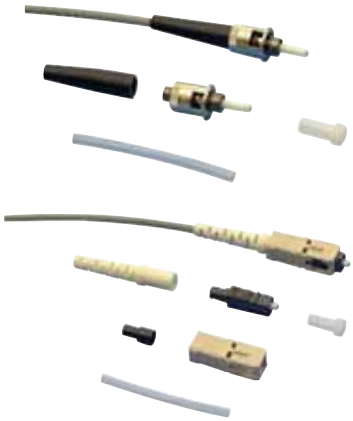
AMP part codes shown in brackets.

RANGE EXTENDED
- OM3 Versions Now Available
- LC Style Now Available

3M Hot Melt Connectors and Accessories

The 3M Hot Melt termination system is renowned worldwide for its consistency, easy of use and high performance. A wide range of connectors are available each pre loaded with adhesive which is activated when inserted into the specifcially designed Hot Melt ovens. Users new to fibre termination may purchase a kit which contains both cable preperation tools as well as the Hot Melt specific accessories such as the oven and connector holders - used to position the connector within the oven. Those users with fibre preperation tools need only purchase a Hot Melt conversion kit which contains all of the Hot Melt specific equipment required to start using this industry leading termination method.

A further option is available for exisiting Hot Melt users who need the ability to install the recently launched LC style Hot Melt connector, the LC expansion kit contains consumables for upto 100 terminations and should be used in conjunction with the Hot Melt standard termination kit.



Features

- Quick, clean and easy to use, terminated in less then 4 minutes
- Consistent high performance
- Choice of connector types
- Wide range of accessories

NEW

Description	Part No.	3M Part No.
Hot Melt Connectors		
ST Multimode Hot Melt Connector, black boot	203-002	6100B
ST Multimode Hot Melt Connector, red boot	203-004	6100R
SC Simplex Multimode Hot Melt Connector, white boot	203-008	6300W
ST Singlemode Hot Melt Connector, yellow boot	203-010	8100YS
SC Simplex Singlemode Hot Melt Connector, yellow boot	203-012	8300
LC Simplex Multimode Hot Melt Connector, 900um White boot	203-036	6600s
LC Simplex Multimode Hot Melt Connector, 1.6-2mm white boot	203-038	6602s
LC Duplex Multimode Hot Melt Connector 900um boot white/beige	203-040	6601d
LC Duplex Multimode Hot Melt Connector, 1.6-2mm boot white/beige	203-042	6602d
LC Simplex Singlemode Hot Melt Connector, 900um	203-044	8600s
Hot Melt Accessories		
Hot Melt termination Kit 230v	203-014	6351/6361
Hot Melt Conversion Kit 230v	203-016	6157
Hot Melt LC Expansion Kit	203-017	6650/80-6113-1353-9
Hot Melt Classic Consumable kit	203-018	6365-CC
Hot Melt LC Multimode Consumables kit	203-019	6650/80-6113-1475-5
Hot Melt LC Singlemode Consumables kit	203-020	6650/80-6113-1472-7
Hot Melt Polishing machine 230v	203-022	6851E
Hot Melt Connector Holder ST	203-024	6190
Hot Melt Connector Holder SC	203-026	SP-00504
Hot Melt Connector Holder LC	203-027	6650/80-6113-1348-9
Hot Melt Cooling Stand	203-028	6191
Hot Melt 2um polishing film	203-030	6192A
Hot Melt one step polishing pad	203-032	6365PP

Test and Measurement

Optical Wavelength Technology (OWL) are a leading US based manufacturer of light sources, power meters, optical loss test sets and handheld certification kits for both multimode and singlemode fibre cabling. OWL certification tools simplify the process of certifying fibre systems to industry standards by performing all link budget calculations and indicating a pass or fail result based on the standard selected by the user from the instrument menu. Once stored, professional reports can be produced using the OWL reporting software which is provided with the equipment. We offer the following OWL equipment from stock.

ZOOM Series – Optical Power Meter

ZOOM (Zeroed Output Optical Meter) is an affordable entry level power meter solution for multi and singlemode installations. Reference values stored for each wavelength are used for optical loss readings. The unit's user friendly interface includes selector switches for power and wavelength selection and a push for setting references and toggling between optical power and optical loss. ZOOM meters do not offer a data storage facility, please refer to the WaveTester Series or Fiber OWL series on the following pages if this level of functionality is required.

Features

- Universal 2.5mm connector port
- Multimode and singlemode ready
- Cost effective
- Extended battery life – 15 hours on one 9v battery
- Easy to read LED display
- Single button setting for zero reference

Specification

Measurement Range
+3 to -52 dBm

Absolute Accuracy
+/– 0.24dB

Wavelength Range
750 to 1700nm

Calibrated Wavelengths
850nm, 1300/1310nm, 1550nm

Resolution / Precision
0.1dB / +/– 0.20dB

Description	Part Number
ZOOM Optical Power Meter	210-005

Dual OWL Series – LED Light Source

The Dual OWL is a cost effective handheld light source. The temperature compensated outputs are calibrated to couple –20dBm of optical power into multimode fibre. The units are available in single 850nm or 1300nm versions, or with both sources installed as standard. Ease of use is assured with a single switch controlling power and output wavelength selection. LED indicators highlight the selected source and verify that battery power is sufficient to maintain the calibrated output power.

Features

- Stable temperature compensated LED source
- Available at 850nm and/or 1300nm
- Selected source, low battery indicator LED's
- ST or SC connectivity
- Extended battery life – about 40 hours on one 9v battery
- Single switch operation

Specification

Output Power
-20dBm into multimode

Initial Accuracy
+/– .10dB @ 25°c

Calibrated Wavelength
850nm, 1300nm

Spectral Width
35nm @850nm, 170nm @1300nm

Description	Part Number
Dual OWL 850nm light source – ST connectivity*	210-210
Dual OWL 1300nm light source – ST connectivity*	210-212
Dual OWL 850nm light source – SC connectivity*	210-214
Dual OWL 1300nm light source – SC connectivity*	210-216
Dual OWL 850/1300nm light source – ST connectivity	210-218
Dual OWL 850/1300nm light source – SC connectivity	210-220

** These items are available on a lead time of 1 week.*

Laser OWL Series – Single Mode Light Source

The Laser OWL is a cost effective, compact, handheld laser light source. The temperature compensated outputs are calibrated to couple -10dBm of optical power into a 9 micron single mode fibre. The light source is offered with a 1310nm and a 1550nm laser installed.

The source is simple to operate with a single switch controlling power and selecting the output wavelength. LED indicators highlight the selected source and verify that battery power is sufficient to maintain the calibrated output power.

Features

- Highly stabilized
- Rugged & Economical
- -10dBm Calibrated Output (Customizable)
- Compact Size
- Photodiode Compensated
- Extended Battery Life
- Low Battery Indicator
- NIST Traceable
- Available with FC, SC, or ST fibre connectors

Specification

Output Power
-10dBm into singlemode

Initial Accuracy
+/– .10dB @ 25°c

Calibrated Wavelength
1310nm, 1550nm

Centre Wavelength
1310nm +/- 30nm, 1550nm +/- 30nm

Spectral Width
2nm @ 1310nm, 2nm @ 1550nm

NEW

Description	Part Number
Laser OWL 1310/1550nm laser source – ST connectivity*	210-241
Laser OWL 1310/1550nm laser source – SC connectivity*	210-242
Laser OWL 1310/1550nm laser source – FC connectivity*	210-243

** These items are available on a lead time of 1 week.*

ZOOM Series – Power Meter and Light Source Kits

ZOOM kits combine the power meters and light source detailed on page 20 and are ideal as entry level solutions for testing where data storage is not required.

Features and specifications of individual units are as described on page 20.

Kit costs are lower than the separate purchase cost of the above units.

HIRE ME

RANGE EXTENDED

Description	Part Number
Zoom power meter + Dual OWL 850/1300nm light source – ST connectivity	210-224
Zoom power meter + Dual OWL 850/1300nm light source – SC connectivity	210-226
Zoom power meter + Dual OWL 850/1300nm light source + Laser OWL 1310/1550nm Laser Source – ST connectivity	210-244
Zoom power meter + Dual OWL 850/1300nm light source + Laser OWL 1310/1550nm Laser Source - SC connectivity	210-245

WaveTester Series – Optical Loss Test Sets

NEW

WaveTester kits offer the fibre optic professional some of the best values in the industry. Whether performing standards-compliant testing, or just simple optical loss tests, there is a WaveTester kit configuration to meet nearly every need.

WaveTester kits include a WaveTester optical power meter, your choice of light source combinations, a hard-shell carrying case, protective rubber boots, lanyard straps, and OWL Reporter software and operations guide on CD.

WaveTester stores up to 100 link test results to be downloaded to the PC via the OWL reporting software. Once Downloaded simply run the Link Budget Wizard to produce full standards certification reports.

WaveTester Auto-Test fibre optic test kits offer conveniences not found in many test kits in its class, including automatic wavelength switching and automatic data point storage, both of which save valuable testing time. Single-port dual-wavelength sources eliminate the need for separate reference cables, and also allow some versions to have an optional VFL installed. Need all four wavelengths? The quad-wavelength test kit gives you 850, 1300, 1310, and 1550nm all in one source.

Description	Part Number
WaveTester Multimode Kit with ST Connectivity	210-246
WaveTester Multimode Kit with SC Connectivity	210-247
WaveTester Multimode Kit with ST Connectivity and Inbuilt VFL	210-248
WaveTester Multimode Kit with SC Connectivity and Inbuilt VFL	210-249
WaveTester Singlemode Kit with ST Connectivity	210-250
WaveTester Singlemode Kit with SC Connectivity	210-251
WaveTester Singlemode Kit with ST Connectivity and Inbuilt VFL	210-252
WaveTester Singlemode Kit with SC Connectivity and Inbuilt VFL	210-253
WaveTester Quad Wavelength Kit with ST Connectivity	210-254
WaveTester Quad Wavelength Kit with SC Connectivity	210-255

Precision Coupled Visual Fault locator

NEW

The PCVFL (Precision Coupled Visual Fault Locator) is a light-weight, hand-held tool used to quickly troubleshoot faults in the continuity of both single mode and multi-mode fibres, especially at fibre launch points or in OTDR dead zones. The 635nm high intensity visible red laser beam is precision-coupled into an optical fibre; breaks and micro-bends in the fibre deflect the red light into the fibre jacket, producing a clearly visible red glow at the point of the fault.

Common faults detected include breaks in patchcords and defective splices. PCVFL can also be used to visually identify correct distribution of fibres in patch panels.

Features

- High-intensity visible laser allows for visible fault location of breaks and microbends in both singlemode and multimode fibres
- Both Continuous Wave mode and Pulsed mode allow for easy fiber identification
- Standard ST connector
- Simple single-switch operation
- CW Mode - 15 hours use on one 9v battery
- Pulsed Mode - 120 hours use on one 9v battery
- Low-battery indicator
- Hand-held
- Lightweight

Specification

Visual Range
up to 5 km (3.1 miles)

Optical Output
-2 dBm (minimum) red laser

Optical Transmission
Continuous wave or pulsed at 6 Hz w/12.5% duty cycle

Dimensions
4.94 x 2.75 x 1.28 in

Weight
6 ounces

Description	Part Number
WaveTester Multimode Kit with ST Connectivity	210-246

Fiber OWL 4 – Optical Power Meter

The Fiber OWL 4 is a high accuracy, high resolution advanced optical power meter with automatic wavelength detection and switching. This unique feature removes the need for user intervention when testing at multiple wavelengths when using the WaveSource, auto switching sources. Its 75dB dynamic range makes the unit ideal for both multi and single mode testing. This unit's design features a large backlit graphic LCD display and 18 key keypad for easy data entry.

The universal adaptor accepts ST, SC and LC connectors.

Fiber OWL 4 includes a built in loss wizard providing an easy method of calculating the allowable loss of each fibre run. The meter can store a variety of data per installed fibre for up to eight sites, including information such as site name, fibre and connector type, in addition up to 1000 measured data points can be stored. This stored information can then be selectively viewed, edited, printed or deleted. Printing can be performed directly from the unit's serial port, imported to a spreadsheet or downloaded using the included OWL Reporter software to product formatted certification reports.

Fiber OWL 4 is available with optional inbuilt optical length tester.

NEW

Features

- Universal 2.5mm connector port – ST, SC, LC compatible
- Large backlit graphical LCD display
- Extended battery life – over 200 hours on one 9v battery
- Automatic Wavelength Detection and switching
- Data storage of up to 1000 links
- OWL Reporter software for printing formatted certification reports
- RS-232 interface for report printing or data downloading
- Optional Inbuilt fibre length tester

Supported Cabling Standards

- EIA/TIA 568
- ISO/IEC11801
- 1000Base-SX/LX
- 100Base-FX
- 10Base-FB/FL
- FDDI
- Token Ring
- ATM-155/622
- Fibre Channel

Specification

Measurement Range	+5 to -70 dBm (FO-4FX)
Absolute Accuracy	Absolute accuracy +/- 0.15dB
NIST traceable calibrated wavelengths	850nm, 1300, 1310nm, 1550nm
Additional factory calibrated wavelengths	980nm, 1490nm, 1625nm
Resolution	0.01dB
Precision	+/- 0.10dB

HIRE ME

Ask us for a DEMONSTRATION

Description	Part Number
Fiber OWL Optical Power Meter	210-256
Fiber OWL Optical Power Meter with inbuilt fibre length meter	210-257

Fiber OWL Series – Power Meter and Light Source Kits

NEW

Fiber OWL kits offer three basic kit options:

Manual Test Kits
Fiber OWL 4 power meters with manual Dual OWL and Laser OWL light sources and areideal budget solution for testing where data storage and link certification is required.

AutoTest Kits
Fiber OWL4 power meters with WaveSource automatic wavelength switching sources are perfect for testing large numbers of fibres quickly and storing results for LAN certification.

AutoTest Kits With Length
Fiber OWL 4B power meters with Wavesource are perfect when installed fibre length is unknown as this parameter is required to calculate link budget for lan fibre certification.

Features and specifications of individual units are as before. Kit costs are lower than the separate purchase cost of the above units.

HIRE ME

Ask us for a DEMONSTRATION

Description	Part Number
Fiber OWL4 Manual Multimode Test Kit with ST Connectivity	210-258
Fiber OWL4 Manual Multimode Test Kit with SC Connectivity	210-259
Fiber OWL4 Manual Quad Wavelength Test Kit with SC Connectivity	210-260
Fiber OWL4 Auto Multimode Test Kit with ST Connectivity	210-261
Fiber OWL4 Auto Multimode Test Kit with SC Connectivity	210-262
Fiber OWL4 Auto Quad Wavelength Test Kit with ST Connectivity	210-263
Fiber OWL4 Auto Quad Wavelength Test Kit with SC Connectivity	210-264
Fiber OWL4 Auto Multimode Test Kit with Length - ST Connectivity	210-265
Fiber OWL4 Auto Multimode Test Kit with Length - SC Connectivity	210-266
Fiber OWL4 Auto Quad Wavelength Test Kit with Length - ST Connectivity	210-267
Fiber OWL4 Auto Quad Wavelength Test Kit with Length - SC Connectivity	210-268

Single Mode ONLY Kits available on request

BOLT Series – Optical Length Tester

BOLT stands for Beaming Optical Length Tester and offers a unique, low cost unit for users that need to measure the length of optical fibres.

Measurement with accuracy of +/– 2.5 metres is achieved by looping two fibres at one of the link with a patch cord. The unit emits a light signal down the cable and the time this takes to complete the round trip through both fibres, is converted to length in kilometres, then divided by two to show the installed length.

Features

- Accurately measures length of single and multimode fibres
- Easy to read LED display
- Extended battery life – up to 15 hours on one 9v battery
- Low battery indicator

Specification

Measurement Range	Up to 25 kilometre's
Accuracy	+/– 2.5 metres
Resolution	Up to 1 metre

Description	Part Number
BOLT Optical Length Tester	210-240

DTX CableAnalyzer™ Series

Fluke Networks' DTX CableAnalyzer™ Series combines powerful speed and unprecedented accuracy no other certification tester can match. This revolutionary platform significantly reduces total time to certify to save you time you can see on your bottom line – as much as 33% of certification costs per year. Certify a Cat 6 link three times faster than other testers with 12-second Cat 6 Autotest and Level IV Accuracy. DTX also gives you 900 MHz of testing bandwidth, optional on-board fibre modules, easy-to-understand diagnostics, 12-hour battery life, a bright colour display, and nearly instant setup and reporting. DTX - It's all about time!

Features

- Exceeds spec requirements for Cat 5e/6/7 with superior Level IV accuracy
- Three times faster than existing testers with 12-second Cat 6 Autotest
- Advanced time-saving diagnostics pinpoints fault and suggests corrective actions
- 900 MHz future-proofs your investment for future applications such as 10 Gigabit Ethernet, Class F and CATV
- Resident fibre modules lets you switch between copper and fibre with the push of a button
- Fast, reliable, and rugged with extended 12-hour battery life and colour display all enhance user productivity
- All models can be upgraded to the high-end performance model
- DTX significantly reduces total certification costs by as much as 33% a year

Description	Part Number
DTX-1800 CableAnalyzer	DTX-1800
DTX-1200 CableAnalyzer	DTX-1200
DTX-LT CableAnalyzer	DTX-LT
DTX-1800 with Multimode Fibre Modules	DTX-1800-M
DTX-1800 with Multimode and Singlemode Fibre Modules	DTX-1800-MS
DTX-1200 with Multimode Fibre Modules	DTX-1200-M
DTX-1200 with Multimode and Singlemode Fibre Modules	DTX-1200-MS

DTX Fiber Modules

Add record-fast fibre certification to your DTX CableAnalyzer – five times faster than existing testers. DTX delivers the greatest time and cost-savings. Certify fibre attenuation, length, and polarity quickly and simply. Autotest automatically tests two fibres, each at two wavelengths, with length measurement and pass/fail analysis – all in 12 seconds. Find faults quickly with built-in VFL. Save, upload and report results using LinkWare PC software. Certify multiple fibre types with multimode and singlemode modules. SFF connector support, TALK, FINDFIBER, MONITOR add testing power. DTX tests more fibre in less time, saving over 100 hours per year. DTX- it's all about time.

Features

- Add record-fast fibre certification to the DTX CableAnalyzer
- Five times faster than existing testers with 12-second Autotest
- Resident fibre module is on-board when you need it
- Locate fibres, verify continuity and polarity, and find near-end breaks with built-in VFL
- Speed testing with TALK, FINDFIBER, MONITOR, bi-directional and single fibre test features
- Deliver Tier 1 per EIA/TIA TSB140 certification

Description	Part Number
Set of two DTX Multimode Fibre Modules, each incorporating: 850nm and 1300nm LED sources combined into a single output port, 850/1300/1310/1550nm power meter, integrated VFL	DTX-MFM
Set of two DTX Singlemode Fibre Modules, each incorporating: 1310nm and 1550nm laser sources combined into a single output port, 850/1300/1310/1550nm power meter, integrated VFL	DTX-SFM
DTX Fibre Module Gold Support, Gold SuperVision ensures peace of mind with free annual calibration	GLD-DTX
Set of two DTX Gigabit Multimode Fiber Modules, each incorporating: 850nm VCSEC source and 1310nm laser source combined into a single output port with Integrated VFL.	DTX-GFM

Fibre Optic Media Converters – 10/100/1000Mbps

FVT-0101/FVT-0102 Series

These best selling units offer a convenient low cost method of converting 10/100Base FX signals - on either ST or SC connectivity - to 10/1000 RJ45 based copper cabling available on both multimode and singlemode.

FVT-0101 Features

- Complies with IEEE802.3u, 100Base-TX/FX
- Compact in size and installation
- Selectable Full Duplex/ Half Duplex mode
- LED Indicators for status diagnostics

FVT-0102 Features

- Complies with IEEE802.3u, 100Base-TX/FX
- Compact in size and installation
- Auto negotiates Full/Half Duplex
- FVT-0102TXFT features ST Interfaces
- FVT-0102TXFC features SC interfaces
- LED indicators for status diagnostics

Description	Part Number
100Base-TX to 1000Base-FX (SC) Single Mode Media Converter	FVT-0101TXFC
10/100Base-TX to 1000Base-FX (ST) Media Converter	FVT-0102TXFT
10/100Base-TX to 1000Base-FX (SC) Media Converter	FVT-0102TXFC

NEW

POE FUNCTIONALITY

FVT-0103/FVT-0104 Series

The 0103 and 0104 series offer the same performance as the 0102 series but with the added benefit of Power Over Ethernet.

Features

- Complies with IEEE802.3u, 100Base-TX/FX
- Complies with IEEE802.3af POE Standard
- No extra power needed
- Compact in size and installation
- Selectable Full Duplex/ Half Duplex mode
- LED Indicators for status diagnostics

Description	Part Number
10/100Base-TX to 100Base-FX (SC) Multi Mode POE Media Converter	FVT-0103TXFC
10/100Base-TX to 100Base-FX (SC) Single Mode POE Media Converter	FVT-0104TXFC

NEW

FVT-0203TXFC/FVT-0204TXFC – 10/100Base-T

Converts 10/100Base-TX Fast Ethernet over RJ45 copper to 100Base-FX Fast Ethernet over multimode and singlemode fibre with POE function thus easily providing power and data to a remote POE device over an existing standard Ethernet cable.

Features

- Complies with IEEE802.3u, 100Base-TX/FX
- Complies with IEEE802.3af POE Standard
- Power from IEEE 802.3af PSE or POE injector
- Compact in size and installation
- Selectable Full Duplex/ Half Duplex mode
- LED Indicators for status diagnostics

Description	Part Number
100Base-TX to 100Base-FX (SC) Multi Mode Media Converter with POE Injector	FVT-0203TXFC
100Base-TX to 100Base-FX (SC) Single Mode Media Converter with POE Injector	FVT-0204TXFC

Fibre Optic Media Converters – 10/100/1000Mbps

GVT-0100 Series

The GVT-0100 series converts 1000Base-T Gigabit networks onto fibre 1000Base-SX cabling. This device can extend Gigabit transmission on 50-micron multimode fibre optic cable up to 550Mtrs.

Features

- Complies with IEEE802.3z, 1000Base-SX, IEEE802.3ab and 1000Base-T
- 1000Base-SX interface up to 550Mtrs (multimode fibre, 50/125)
- Full duplex support for copper and fibre interfaces
- LED indicators for status diagnostics

NEW

Description	Part Number
1000Base-T to 1000Base-SX (SC) Media Converter	GVT-0100SX

GVT-1000 Series

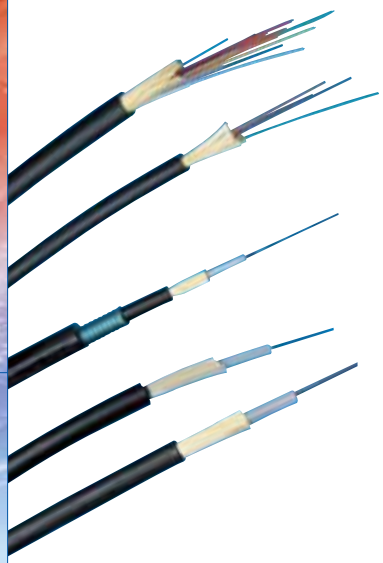
GVT-1000 integrates copper/fiber network and transforms 1000Base-T media to 1000Base-SX/LX media and vice versa. With the SFP transceiver, this device can extend Gigabit transmission on 9-micron multimode fibre optic cable up to 70Mtrs.

Features

- Complies with IEEE802.3z, 1000Base-SX/LX, IEEE802.3ab and 1000Base-T
- Compact in size and installation
- Data transfers up to 70KMtrs (singlemode fibre, 9/125) with GVT-0302
- Full duplex support for copper and fibre interfaces
- LED indicators for status diagnostics

Description	Part Number
1000Base-T to 1000Base-SX/LX (LC) Media Converter	GVT-1000
SFP Transceiver for SFP (550m)	GVT-0300
SFP Transceiver for SFP (10km)	GVT-0301
SFP Transceiver for SFP (70km)	GVT-0302

Brand-Rex Universal Grade Fibre Cable



The Brand-Rex range of optical cables come in a choice of loose tube and tight buffered cables and have been specifically designed for internal and external applications. All of the cables come with a black LSOH sheath.

Unitube Cables

The Unitube cables are constructed from a number of 250 micron multimode 62.5/125 - OM1, 50/125 - OM2, 50/125 - OM3 or 8/125 - OS1 fibres contained in a gel filled tube which is surrounded by water blocking glass yarn strength members and jacketed with a low smoke, zero halogen black outer sheath.

Unitube Cables – Corrugated Steel Tape Glass Yarn Armoured Rodent Resistant

Our range of standard loose tube cables are complemented by a corrugated steel tape armoured version, in OM1 and OM2 styles with specifications from 4 to 24 core.

Tight Buffered Cables

The cables are constructed from a number of multimode 62.5/125 - OM1, 50/125 - OM2, 50/125 - OM3 or 8/125 - OS1 fibres buffered to 900 micron, with water blocking aramid yarn strength members and jacketed with a low smoke, zero halogen black outer sheath.

FREE Cut to length service on ALL cables

62.5/125 OM1

Black Outer Sheath			
No. of Cores	62.5/125 - OM1 LT	62.5/125 - OM1 TB	62.5/125 - OM1 LT CST Armoured
4	215-190 (HF062UNI4LU)	215-070 (HF-062-C4-LU)	215-265 (HF062UNI4LSTALU)
8	215-195 (HF062UNI8LU)	215-075 (HF-062-C8-LU)	215-270 (HF062UNI8LSTALU)
12	215-200 (HF062UNI12LU)	215-080 (HF-062-C12-LU)	215-275 (HF062UNI12LSTALU)
16	215-205 (HF062UNI16)	215-085 (HF-062-C16-LU)	215-280 (HF062UNI16LSTALU)
24	215-210 (HF062UNI24)	215-087 (HF-062-C24-LU)	215-285 (HF062UNI24LSTALU)

***LT** = Loose Tube, **TB** = Tight Buffered*

Brand-Rex part codes shown in brackets.

25 YEAR WARRANTY

50/125 OM2

Black Outer Sheath			
No. of Cores	50/125 - OM2 LT	50/125 - OM2 TB	50/125 - OM2 LT CST Armoured
4	215-165 (HF050UNI4LU)	215-040 (HF-050-C4-LU)	215-290 (HF050UNI4LSTALU)
8	215-170 (HF050UNI8LU)	215-045 (HF-050-C8-LU)	215-295 (HF050UNI8LSTALU)
12	215-175 (HF050UNI12LU)	215-050 (HF-050-C12-LU)	215-300 (HF050UNI12LSTALU)
16	215-180 (HF050UNI16LU)	215-052 (HF-050-C16-LU)	215-291 (HF050UNI16LSTALU)
24	215-185 (HF050UNI24LU)	215-054 (HF-050-C24-LU)	215-292 (HF050UNI24LSTALU)

***LT** = Loose Tube, **TB** = Tight Buffered*

Brand-Rex part codes shown in brackets.

Brand-Rex Universal Grade Fibre Cable

50/125 OM3

Black Outer Sheath		
No. of Cores	50/125 - OM3	50/125 - OM3
	LT	TB
4	215-250 (HFOM3UNI4LU)	215-255 (HFOM3C4LU)
8	215-251 (HFOM3UNI8LU)	215-256 (HFOM3C8LU)
12	215-252 (HFOM3UNI12LU)	215-257 (HFOM3C12LU)
16	215-253 (HFOM3UNI16LU)	215-258 (HFOM3C16LU)
24	215-254 (HFOM3UNI24LU)	215-259 (HFOM3C24LU)

8/125 OS1

8/125 - OS1	8/125 - OS1	
LT CST	LT CST Armoured	
215-230 (HF008UNI4LU)	215-293 (HF008UNI4LSTALU)	
215-235 (HF008UNI8LU)	215-294 (HF008UNI8LSTALU)	
215-240 (HF008UNI12LU)	215-296 (HF008UNI12LSTALU)	
215-242 (HF008UNI16LU)	215-297 (HF008UNI16LSTALU)	
215-244 (HF008UNI24LU)	215-298 (HF008UNI24LSTALU)	

***LT** = Loose Tube, **TB** = Tight Buffered*

Brand-Rex part codes shown in brackets.

Brand-Rex Pigtails – 62.5/125 OM1, 50/125 OM2, 50/125 OM3 & 8/125 OS1

Brand-Rex Pigtails are available in a choice of connector styles and are manufactured from 900 micron cable.

Connector Type	Length (Metre)	62.5/125 OM1	50/125 OM2	50/125 OM3	8/125 OS1
ST	1	220-625 (HOT062ST001)	220-610 (HOT050ST001)	220-751 (HOTSTOM3001)	—
SC	1	220-670 (HOT062SC001)	220-655 (HOT050SC001)	220-752 (HOTSCOM3001)	220-685 (HOT008SC001)
MTRJ	1	220-712 (HOTMJ062501)	220-711 (HOTMJ050501)	220-753 (HOTMJOM3001)	220-713 (HOTMJ008501)
LC	1	—	—	220-754 (HOTLSOM3001)	—

Brand-Rex part codes shown in brackets.

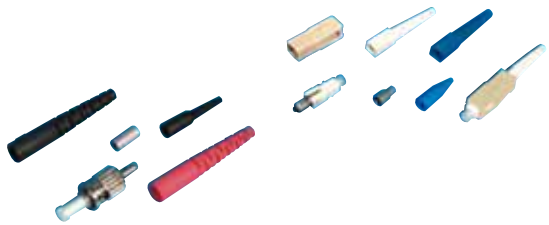
Brand-Rex Duplex Multimode and Singlemode Patch Cords

As the UK's largest Brand-Rex fibre optic distributor we are able to supply a huge range of duplex patch cords and when required simplex leads subject to lead times and minimum manufacturing quantities.

Products in the range include cables from 1 through to 5 metre leads, with connector choices including ST, SC,LC, and MTRJ.

For part numbers, prices, and lead time information please call our sales office.

Brand-Rex Fibre Optic Connectors – ST, SC and LC



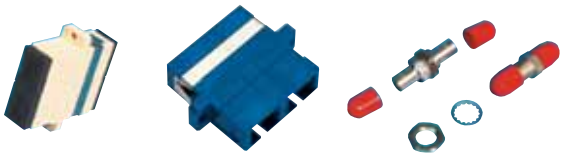
Brand-Rex ST & SC Connectors are available in a choice of simplex or duplex styles. Each connector comprises of a polymer inner and outer body and ceramic ferrule / spring / clamp barrel assembly, crimp outer sleeves and strain relief boots. The duplex connector is supplied with a beige two piece polymer clip into which the connectors are mounted.

These connectors are suitable for 2.4 to 3mm jacketed cables. The Simplex SC connector also includes a 900 micron boot suitable for termination on to 900 micron fibre.

Mode	ST - Simplex	SC - Duplex	SC - Simplex	LC - Simplex	LC - Duplex
Multimode	220-005 (FOCSTEPMM001)	220-015 (FOCDCEPMM001)	220-013 (FOCSCEPMM001)	220-019 (FOCLSEPMM001)	220-017 (FOCLCEPMM001)
Singlemode	220-007 (FOCSTEPSM001)	—	220-008 (FOCSCEPSM001)	220-020 (FOCLSEPSM00)	220-018 (FOCLCEPSM001)

Brand-Rex part codes shown in brackets.

Brand-Rex Fibre Optic Adaptors – ST, SC and LC



Brand-Rex ST and SC Adaptors are available in choice of simplex or duplex styles. Each connector comprises of a nickel plated zinc die cast body (ST) or a polymer outer body (SC) fitted with a precision alignment mechanism. Each adaptor is supplied with a dust cap.

Mode	ST	SC - Simplex	SC - Duplex	LC - Duplex
Multimode	220-050 (BHCSTMM001)	220-055 (BHCSCMM001)	220-060 (BHCDCMM001)	220-082 (BHCLCMM001)
Singlemode	220-065 (BHCSTSM001)	—	220-075 (BHCDCSM001)	220-084 (BHCLCSM001)

Brand-Rex part codes shown in brackets.

RANGE EXTENDED
LC Now Avaiable

Brand-Rex Compact Plus Fibre Optic Patch Panels

RANGE EXTENDED
LC Panels NOW Available

Brand-Rex 19" Rack Mount Patch Panels are supplied unloaded or pre loaded with the required number of adaptors. The sliding drawer construction enables easy access and fast installation. Also supplied with each panel is a range of accessories to complete the installation including cable management kits, gland entry kits, and fibre optic warning labels. Panels are supplied in black as standard.

The first column below shows the number of fibre terminations possible in each panel. For example, part number 220-115 has 4 SC Duplex Adaptors allowing 8 fibre terminations.

Number of Connections	ST	SC	MTRJ	LC
4	220-085 (MFCC1SXMM04ST2)	220-110 (MFCC1SXMM04DC2)	—	—
8	220-090 (MFCC1SXMM08ST2)	220-115 (MFCC1SXMM08DC2)	220-140 (MFCC1SXMM08MJ2)	220-150 (MFCC1SXMM08LC2)
12	220-095 (MFCC1SXMM12ST2)	220-120 (MFCC1SXMM12DC2)	—	—
16	220-100 (MFCC1SXMM16ST2)	220-125 (MFCC1SXMM16DC2)	220-142 (MFCC1SXMM16MJ2)	220-152 (MFCC1SXMM16LC2)
24	220-105 (MFCC1SXMM24ST2)	220-130 (MFCC1SXMM24DC2)	220-144 (MFCC1SXMM24MJ2)	220-154 (MFCC1SXMM24LC2)
48	—	—	220-146 (MFCC1SXMM48MJ2)	220-156 (MFCC1SXMM48LC2)

Brand-Rex part codes shown in brackets.

Blolite Introduction

Blolite is an exceptionally flexible and cost effective method of installing an optical fibre infrastructure, within and between buildings. This unique system offers significant practical and financial benefits, using compressed air to blow specially coated optical fibres into pre-installed plastic tubes called microducts.

The optical fibre is conventional singlemode or multimode with standard interconnect products offering ST or SC, LC or MTRJ interfaces.

FREE Cut to length service on ALL Multicore Ducts

The advantages of a Blolite system include:

Controlled And Deferred Cost

With conventional systems many users install more optical fibre than required at the outset to avoid the cost and disruption of future upgrades. Blolite provides fibre-ready infrastructure that lowers initial capital expenditure as optical fibre need only be purchased and installed when actually required, providing a unique way of deferring costs.

Easy Upgrade Path And Network Adaptability

Network expansion is quick and easy with Blolite. New destinations can be added or existing routes relocated efficiently with minimum disruption to the working environment.

Reliability, Quick Recovery And Simple Repair

Blolite connectors and accessories make network configuration and repair simple with significant cost savings compared to traditional methods.

Blolite is the ultimate cabling system allowing costs to be deferred and changes to be made to network infrastructures as soon as they are needed. In the IT industry the only constant is change. Blolite offers an insurance policy for change.

Blolite Microducts

Microducts are tubes of co-extrusion construction, comprising of an inner 'blowable' liner and an outer layer of low smoke and fume flame retardant material. A single microduct version is available as well as the 2, 4, and 7 way multiduct all are blue in colour and printed with tube and length identifiers at regular intervals. Also available is an external grade multiduct with the same internal construction but with the addition of an aluminium moisture barrier and an outer sheath of black polyethylene.

Each individual duct has an external diameter of 5mm allowing a choice of multi or singlemode fibre to be blown up to 500 metres. For applications requiring longer distances, an 8mm duct can be supplied this version can accommodate fibres up to 1000 metres in length.

Type	Single Duct	2 Way Ducts	4 Way Ducts	7 Way Ducts
Indoor 5mm	225-005 (20-0101-06)	225-015 (20-0201-06)	225-020 (20-0401-06)	225-030 (20-0701-06)
Indoor 8mm	225-010 (20-0104-06)	—	—	225-035 (20-0704-06)
Outdoor 5mm	—	—	225-040 (21-0401-05)	225-050 (21-0701-05)
Outdoor 8mm	—	—	225-045 (21-0404-05)	225-055 (21-0704-05)

Brand-Rex part codes shown in brackets.

We can also supply 12 and 19 way microducts subject to lead time and minimum manufacturers production quantities, for a quote please call our sales office.

Blolite Optical Fibre

Blolite
blown fibre networking system

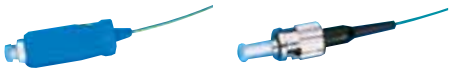
The optical fibre used in Blolite tubes is specially drawn and coated with unique materials to enhance 'blowability' and termination. Twelve colours are available in a choice of multi and singlemode fibre.

Colour	62.5/125 – OM1	50/125 – OM2	50/125 – OM3	8/125 – OS1
White	225-203 (10-0101-03)	225-150 (10-0005-03)	225-283 (10-0003-03)	225-243 (10-0200-03)
Black	225-204 (10-0101-05)	225-155 (10-0005-05)	225-284 (10-0003-05)	225-244 (10-0200-05)
Blue	225-205 (10-0101-06)	225-160 (10-0005-06)	225-285 (10-0003-06)	225-245 (10-0200-06)
Orange	225-210 (10-0101-07)	225-165 (10-0005-07)	225-290 (10-0003-07)	225-250 (10-0200-07)
Green	225-215 (10-0101-08)	225-170 (10-0005-08)	225-295 (10-0003-08)	225-255 (10-0200-08)
Red	225-220 (10-0101-09)	225-175 (10-0005-09)	225-300 (10-0003-09)	225-260 (10-0200-09)
Yellow	225-225 (10-0101-11)	225-180 (10-0005-11)	225-305 (10-0003-10)	225-265 (10-0200-11)
Brown	225-230 (10-0101-12)	225-185 (10-0005-12)	225-310 (10-0003-11)	225-270 (10-0200-12)
Grey	225-235 (10-0101-10)	225-190 (10-0005-10)	225-315 (10-0003-12)	225-275 (10-0200-10)
Violet	225-240 (10-0101-13)	225-195 (10-0005-13)	225-320 (10-0003-13)	225-280 (10-0200-13)
Pink	225-241 (10-0101-14)	225-200 (10-0005-14)	225-325 (10-0003-14)	225-281 (10-0200-14)
Turquoise	225-242 (10-0101-15)	225-202 (10-0005-15)	225-330 (10-0003-15)	225-282 (10-0200-15)

Brand-Rex part codes shown in brackets.

***NB** Sold on drums of 2km or 4km.*

Blolite Tails – OM1 and OM2



Blolite tails are manufactured from 500 micron buffered fibre and provide a quick and easy method of fusion splicing loaded microducts into the Blolite termination cassettes. For price and availability details on LC Tails call our sales office.

Colour	SC – 50/125	SC – 62.5/125	SC – 8/125	ST – 50/125	ST – 62.5/125	ST – 8/125
Black	225-611 (BLO-40-1107-05)	225-691 (BLO-40-2107-05)	225-771 (BLO-40-3107-05)	225-651 (BLO-40-1101-05)	225-731 (BLO-40-2101-05)	225-811 (BLO-40-3106-05)
White	225-612 (BLO-40-1107-03)	225-692 (BLO-40-2107-03)	225-772 (BLO-40-3107-03)	225-652 (BLO-40-1101-03)	225-732 (BLO-40-2101-03)	225-812 (BLO-40-3106-03)
Blue	225-575 (BLO-40-1107-06)	225-655 (BLO-40-2107-06)	—	225-615 (BLO-40-1101-06)	225-695 (BLO-40-2101-06)	225-775 (BLO-40-3106-06)
Orange	225-580 (BLO-40-1107-07)	225-660 (BLO-40-2107-07)	—	225-620 (BLO-40-1101-07)	225-700 (BLO-40-2101-07)	225-780 (BLO-40-3106-07)
Green	225-585 (BLO-40-1107-08)	225-665 (BLO-40-2107-08)	—	225-625 (BLO-40-1101-08)	—	225-785 (BLO-40-3106-08)
Red	225-590 (BLO-10-0005-06)	225-670 (BLO-40-2107-09)	—	225-630 (BLO-40-1101-09)	225-710 (BLO-40-2101-09)	225-790 (BLO-40-3106-09)
Yellow	225-595 (BLO-40-1107-11)	225-675 (BLO-40-2107-11)	225-755 (BLO-40-3108-11)	225-635 (BLO-40-1101-11)	—	225-795 (BLO-40-3106-11)
Brown	225-600 (BLO-40-1107-12)	225-680 (BLO-40-2107-12)	225-760 (BLO-40-3107-12)	225-640 (BLO-40-1101-12)	—	225-800 (BLO-40-3106-12)
Grey	225-605 (BLO-40-1107-10)	225-685 (BLO-40-2107-10)	—	225-645 (BLO-40-1101-10)	—	225-805 (BLO-40-3106-10)
Violet	225-610 (BLO-40-1107-13)	225-690 (BLO-40-2107-13)	—	225-650 (BLO-40-1101-13)	—	225-810 (BLO-40-3106-13)
Pink	225-613 (BLO-40-1107-14)	225-693 (BLO-40-2107-14)	225-773 (BLO-40-3107-14)	225-653 (BLO-40-1101-14)	225-733 (BLO-40-2101-14)	225-813 (BLO-40-3106-14)
Turquoise	225-614 (BLO-40-1107-15)	225-694 (BLO-40-2107-15)	225-774 (BLO-40-3107-15)	225-654 (BLO-40-1101-15)	225-734 (BLO-40-2101-15)	225-814 (BLO-40-3106-15)

Brand-Rex part codes shown in brackets.

***NB** For Blolite compatible Patch Panels please refer to page 32.*

Blolite Accessories

All Blolite connectors are supplied individually for quick and easy installation and are MillenniuM approved component which carry a 25 year system warranty.

Connectors
Housed in a moulded body these connectors allow 5mm ducts to be connected directly to Blolite accessories.

Duct Connectors
Plastic body through coupler connectors used to join ducts.

End Caps, Plugs and Blanks
A range of fittings to complete each Blolite installation. The plastic cap provides a temporary seal to the duct, for a long-term seal use the connector plug. These items are supplied as standard with each Blolite patch panel.

Connectors	Part Number	Brand-Rex Part No.
Clip in Connector, 5mm	225-860	30-0506-09
Duct Connectors	**Part No.**	**Brand-Rex Part No.**
Duct Connector, 5mm	225-865	30-0501-00
Duct Connector, 8mm	225-870	30-0801-00
Duct Connector, 5/8mm	225-875	30-5801-00
Connectors for 8mm Installation	**Part No.**	**Brand-Rex Part No.**
Termination Diverter	225-962	30-0809-05
Stem Reducer	225-964	30-5810-05
Caps & Plugs	**Part No.**	**Brand-Rex Part No.**
End Stop Cap, 5mm	225-880	30-0507-05
End Stop Cap, 8mm	225-885	30-0807-05
Connector, 5mm	225-890	30-0505-09
Connector, 8mm	225-895	30-0805-09

Blolite BloCentre

Blolite
blown fibre networking system

The effective installation of fibres into a Blolite microduct route requires the use of specially designed equipment. The IM2000 Fibre Installation Equipment comprises three units housed in two sturdy carry cases and a lightweight tripod for mounting the blowing head. The Pay Off System is constructed from the shell of the case that houses the air conditioning unit. When constructed it forms a unit capable of supporting up to eight fibre reels each containing up to 4,000 metres of single or multimode fibre.

An Air Conditioning Module complete with filtration and air drying units as well as the component parts of the pay off system is housed in one case. This free standing air conditioning unit is removed from the lower portion of the case, which then forms part of the fibre pay off unit when installing eight fibres.

The Installation Module comprises a mechanical device to introduce the fibres into the duct (Blowing Head), and fibre installation control devices housed in the second case. This complete unit enables installation of up to 12 blowable fibres into a pre-installed Microduct route, and controls the rate at which the fibres are introduced during the blowing process. This is achieved by the use of a fibre detector system and control software, together with control of the compressed air supply.

		Installation Module	Air Module
Nominal Dimensions	Length Width Height	410mm 270mm 300mm	520mm 200mm 430mm
Nominal Weight (total inc. Tripod)		20 kg	15 kg
Power Supply (max 5 amps)		85 to 132 V 170 to 264 V (@47 to 440Hz)	n/a
Air Supply		50 slpm 100 slpm	@10 bar @10 bar
No. of Fibres		1 to 4	n/a
Max. Installation Speed		40m/min	n/a
Service Temp C°		+5 to +30	
Storage Temp C°		+20 to +40	
Service Humidity		0 to 95%	

Consumables – Splice Bridge and Protector

A compact 24 way Splice Bridge which provides an effective means to store up to 24 Fusion Splice Protectors. Ideal for use in patch panels or wall enclosures. The bridge can be fixed to any flat clean surface using the self adhesive pads on the base.

Description	Part Number
24 Way Splice Bridge	200-391
Splice Protectors (Clear) 61mm	200-398

Consumables – Warning Labels

Laser warning labels should be used to warn people of possible laser hazards from unprotected connectors or adaptors. Supplied in pack of 10.

Description	Part Number
Warning Label 25 x 25mm	200-900
Warning Label 50 x 50mm	200-901

Consumables – Disposal Bins

Disposal Bins should be used to store fibre ends after cleaving and general cable preparation. With sealable lid.

Description	Part Number
1 Litre Disposal Bin	200-918
645ml Disposal Bin	200-921

Consumables – Sapphire Scribe Tool

A Sapphire tipped handy pen type Cleaving Tool used to cleave multimode fibre cables prior to polishing.

Description	Part Number
Sapphire Pen Scribe	200-910

Consumables – Cable Strippers

Miller Cable Stripper – This spring auctioned stripping tool is suitable for the removal of the 250um buffer from primary coated fibres, generally found in loose tube cables.

Description	Part Number
Miller Cable Stripper	200-909

Consumables – Cleaning Wipes

Pre-saturated Cleaning Wipes IPA – Non abrasive lint free wipes are used to clean fibre and connectors prior to installation, pre-saturated with ISO propyl alcohol in order to eliminate problems with the transportation and use of solvents on site. Supplied in Packs of 80 individually sealed sachets.

Lint free Cleaning Wipes – Non abrasive lint free wipes are used to clean Fibre and connectors prior to installation. Supplied in boxes of 100.

Description	Part Number
Pre-saturated IPA Cleaning Wipes, Pack of 80	200-911
Lint Free Dry Cleaning Wipes, Pack of 100	200-906

Consumables – Epoxy Syringe and Needle

Hand held needle and 3cc syringe sets, used to load connectors with epoxy prior to termination. Supplied in packs of 5.

Description	Part Number
3cc Syringe and Needle, Pack of 5	200-903
Syringe	200-903A
Needle	200-903B

Consumables – Expotek Heat Curing Epoxy

EPO-TEK 353ND is a two part heat curing Epoxy which can be used with any type of connector. To ensure the correct mix ratio the Epoxy is supplied in a Bi Pack containing measured amounts of resin and hardener. Removal of the plastic divider allows the two to mix before being loaded in to the syringe. It is sufficient for over 100 connectors and with pot life of up to 45 minutes. Cure time typically 15 minutes at 80°C or 2 minutes at 120°C.

Description	Part Number
EPO-TEK 353ND Epoxy, 4 Gram	200-907

Consumables – Lapping Film

A complete range of high quality lapping film for connector polishing, supplied in packs of 10 Sheets. Sheet size is 250 x 280mm.

Description	Part Number
0.3um White Lapping Film, Pack of 10 sheets	200-864
1.0um Lime Green Lapping Film, Pack of 10 sheets	200-866
3.0um Dark Pink Lapping Film, Pack of 10 sheets	200-868
5.0um Brown Lapping Film, Pack of 10 sheets	200-870
9.0um Blue Lapping Film, Pack of 10 sheets	200-872
12.0um Yellow Lapping Film, Pack of 10 sheets	200-874
30.0um Green Lapping Film, Pack of 10 sheets	200-876

Consumables – Blanking Plugs

Blanking plugs can be used in part loaded panels to ensure a tidy and professional installation.

Description	Part Number
ST	200-392
SC (Duplex)	200-395

Consumables – Isopropyl Alcohol (IPA)

Isopropyl alcohol is used on lint free wipes to remove grease and dirt from optical fibres during splicing and termination. It is recommended that the fluid is decanted into fluid dispensers before use.

Please note that IPA is highly flammable and should be used only in well ventilated areas.

Description	Part Number
Isopropyl Alcohol (IPA) - 1 Litre	AC-IPA1

Consumables – Cold Cure Termination System

The adhesive and the primer are supplied in separate containers. The system works by injecting the adhesive into the connector. The fibre is then brushed with the primer before being inserted into the connector. Once the adhesive and primer touch, the curing process begins and is complete in a few seconds.

Description	Part Number
Adhesive and Primer	202-080

Consumables – Polishing Pucks

Polishing pucks are used to assist in ensuring a clean accurate finish to each termination.

Description	Part Number
Universal Plastic Puck, Suits ST, SC, FC	200-878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