FibreFab

Fibre Optic & Networking Products

Welcome

Dear valued partner,

Welcome to the new FibreFab catalogue, produced exclusively for you. The creation and development of this catalogue underlines our continued investment and commitment to our partners.

Based in Milton Keynes (UK), FibreFab has, over the last 7 years, grown to become one of the strongest manufacturing partners for fibre optic communications solutions, anywhere in mainland Europe.

Quality, value, flexibility, responsiveness, and a relationship strategy that rewards and encourages long term partnerships, have become the mainstay of our business. This strategy has enabled FibreFab to develop and grow its product portfolio to unrivalled levels which now form a broad and extensive range of Data and Telecommunications solutions.

Unabated, FibreFab has continued to invest in its production capabilities over the last 5 years and combined with key acquisitions, we can now boast a state-of-the-art fibre optic manufacturing facility in the UK, with further production capabilities spread over 2 continents. These have the capability to serve our partners with a next day service in most regions of the world. We are one of only a handful of manufacturers in mainland Europe of quality MTP® solutions fully accredited by US Conec, this underlines our ability to deliver even the most technically challenging optical solutions.

- **Pre-Terminated Cable**
- **MTP®/MPO Solutions**
- **Non Standard Assemblies (Patchcords and Pigtails)**
- **Pre Loaded Panels**

We look forward to hearing from you,

John Grillo
Chairman

FibreFab

Fibre Optic & Networking Products

OPTRONICS

FibreFab is a manufacturer of fibre optic products, for use in local or wide area networking and telecommunications applications.

Based in Milton Keynes, UK, we have the facilities to support a vast array of customers; from the small distributor, supporting specialist installers; to a major OEM.

In 1994 FibreFab acquired Optronics, a company with over 20 years previous experience in the fibre optic manufacturing industry. The Optronics range includes patchcords, pigtails (multimode and singlemode), patch panels, wall and splice boxes (unloaded or customised), and a full range of accessories.

Optronics products are available directly from FibreFab or from our distributors all over the world.

FibreFab's range and capabilities are constantly being expanded and updated, allowing us to supply OEM products, specifically designed to your own specifications.

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Optical Fibre Assemblies

At Fibrefab we understand the importance of every part of an optical network. Our fibre optic patchcords are manufactured and tested to demanding standards and specifications. The result of this is a high quality, high performance product.

Due to the increasing requirement for high bandwidth applications, patchcords are becoming a critical part of network infrastructure.

Each patchcord is tested for insertion loss and return loss (singlemode only) by one of our technicians. The patchcord is shipped with its own test certificate and all test data is fully traceable.

We produce patchcords in multimode OM1, OM2, OM3 and OM3+ and singlemode G.652D, G.655 and G.657A/B. Our extensive stock of patchcords are in available standard lengths of 1,2,3,5,10,15,20,25 and 30 meters.

If you have special requirements for patchcords and cable assemblies, we have a rapid turnaround engineering and manufacturing service that allows us to assist you in the design and manufacture of your custom products. With our manufacturing facilities in Europe and Asia, we are able to support quick turn, high volume orders.

Can't find what you're looking for? Don't hesitate to contact us...

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Patchcords

Simplex Patchcords - Singlemode

OS1

Diagram & Cable Cross Section

L (m) +10/-0cms

Optical fibre
900µm buffer fibre
Strength member
Jacket
(flame retardant LSZH)

Features & Specification

► Available in SC, ST, FC, LC, E2000 & MU connector styles.

► Low insertion loss (<0.3dB) & high return loss (>50dB).

► RoHS compliant.

► Standard product manufactured on 2.8mm (nominal dia.) LSZH zip cable.

► Also available in 2mm (nominal dia.) cable.

► Individual test sheet and unique product identification number for traceability.

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-
Singlemode Return Loss UPC	IEC61300-3-6	>50dB

Patchcords

Simplex Patchcords - Singlemode

OS1	LC	SC	ST	FC	MU	E2000
LC	LCLC09SYE1 = 1M LCLC09SYE2 = 2M LCLC09SYE3 = 3M LCLC09SYE5 = 5M LCLC09SYE10 = 10M	LCSC09SYE1 = 1M LCSC09SYE2 = 2M LCSC09SYE3 = 3M LCSC09SYE5 = 5M LCSC09SYE10 = 10M	LCST09SYE1 = 1M LCST09SYE2 = 2M LCST09SYE3 = 3M LCST09SYE5 = 5M LCST09SYE10 = 10M	FCLC09SYE1 = 1M FCLC09SYE2 = 2M FCLC09SYE3 = 3M FCLC09SYE5 = 5M FCLC09SYE10 = 10M	LCMU09SYE1 = 1M LCMU09SYE2 = 2M LCMU09SYE3 = 3M LCMU09SYE5 = 5M LCMU09SYE10 = 10M	E2LC09SYE1 = 1M E2LC09SYE2 = 2M E2LC09SYE3 = 3M E2LC09SYE5 = 5M E2LC09SYE10 = 10M
SC	LCSC09SYE1 = 1M LCSC09SYE2 = 2M LCSC09SYE3 = 3M LCSC09SYE5 = 5M LCSC09SYE10 = 10M	SCSC09SYE1 = 1M SCSC09SYE2 = 2M SCSC09SYE3 = 3M SCSC09SYE5 = 5M SCSC09SYE10 = 10M	SCST09SYE1 = 1M SCST09SYE2 = 2M SCST09SYE3 = 3M SCST09SYE5 = 5M SCST09SYE10 = 10M	FCSC09SYE1 = 1M FCSC09SYE2 = 2M FCSC09SYE3 = 3M FCSC09SYE5 = 5M FCSC09SYE10 = 10M	MUSC09SYE1 = 1M MUSC09SYE2 = 2M MUSC09SYE3 = 3M MUSC09SYE5 = 5M MUSC09SYE10 = 10M	E2SC09SYE1 = 1M E2SC09SYE2 = 2M E2SC09SYE3 = 3M E2SC09SYE5 = 5M E2SC09SYE10 = 10M
ST	LCST09SYE1 = 1M LCST09SYE2 = 2M LCST09SYE3 = 3M LCST09SYE5 = 5M LCST09SYE10 = 10M	SCST09SYE1 = 1M SCST09SYE2 = 2M SCST09SYE3 = 3M SCST09SYE5 = 5M SCST09SYE10 = 10M	STST09SYE1 = 1M STST09SYE2 = 2M STST09SYE3 = 3M STST09SYE5 = 5M STST09SYE10 = 10M	FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M	STMU09SYE1 = 1M STMU09SYE2 = 2M STMU09SYE3 = 3M STMU09SYE5 = 5M STMU09SYE10 = 10M	E2ST09SYE1 = 1M E2ST09SYE2 = 2M E2ST09SYE3 = 3M E2ST09SYE5 = 5M E2ST09SYE10 = 10M
FC	FCLC09SYE1 = 1M FCLC09SYE2 = 2M FCLC09SYE3 = 3M FCLC09SYE5 = 5M FCLC09SYE10 = 10M	FCSC09SYE1 = 1M FCSC09SYE2 = 2M FCSC09SYE3 = 3M FCSC09SYE5 = 5M FCSC09SYE10 = 10M	FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M FCST09SYE1 = 1M	FCFC09SYE1 = 1M FCFC09SYE2 = 2M FCFC09SYE3 = 3M FCFC09SYE5 = 5M FCFC09SYE10 = 10M	FCMU09SYE1 = 1M FCMU09SYE2 = 2M FCMU09SYE3 = 3M FCMU09SYE5 = 5M FCMU09SYE10 = 10M	E2FC09SYE1 = 1M E2FC09SYE2 = 2M E2FC09SYE3 = 3M E2FC09SYE5 = 5M E2FC09SYE10 = 10M
MU	LCMU09SYE1 = 1M LCMU09SYE2 = 2M LCMU09SYE3 = 3M LCMU09SYE5 = 5M LCMU09SYE10 = 10M	MUSC09SYE1 = 1M MUSC09SYE2 = 2M MUSC09SYE3 = 3M MUSC09SYE5 = 5M MUSC09SYE10 = 10M	STMU09SYE1 = 1M STMU09SYE2 = 2M STMU09SYE3 = 3M STMU09SYE5 = 5M STMU09SYE10 = 10M	FCMU09SYE1 = 1M FCMU09SYE2 = 2M FCMU09SYE3 = 3M FCMU09SYE5 = 5M FCMU09SYE10 = 10M	MUMU09SYE1 = 1M MUMU09SYE2 = 2M MUMU09SYE3 = 3M MUMU09SYE5 = 5M MUMU09SYE10 = 10M	E2MU09SYE1 = 1M E2MU09SYE2 = 2M E2MU09SYE3 = 3M E2MU09SYE5 = 5M E2MU09SYE10 = 10M
E2000	E2LC09SYE1 = 1M E2LC09SYE2 = 2M E2LC09SYE3 = 3M E2LC09SYE5 = 5M E2LC09SYE10 = 10M	E2SC09SYE1 = 1M E2SC09SYE2 = 2M E2SC09SYE3 = 3M E2SC09SYE5 = 5M E2SC09SYE10 = 10M	E2ST09SYE1 = 1M E2ST09SYE2 = 2M E2ST09SYE3 = 3M E2ST09SYE5 = 5M E2ST09SYE10 = 10M	E2FC09SYE1 = 1M E2FC09SYE2 = 2M E2FC09SYE3 = 3M E2FC09SYE5 = 5M E2FC09SYE10 = 10M	E2MU09SYE1 = 1M E2MU09SYE2 = 2M E2MU09SYE3 = 3M E2MU09SYE5 = 5M E2MU09SYE10 = 10M	E2E209SYE1 = 1M E2E209SYE2 = 2M E2E209SYE3 = 3M E2E209SYE5 = 5M E2E209SYE10 = 10M

FibreFab fibre cable assemblies are designed and manufactured in FibreFab's ISO9001 certified facilities, the product range covers both singlemode and multimode patchcords and pigtails.

Assemblies available in all major connector types.

We maintain a standard stock of singlemode and multimode patchcords: 1,2,3,5 and 10 metre lengths, 9/125µm, 50/125µm and 62.5/125 µm, and enhanced (10Gigabit) OM3 specifications.

Other cable types are available upon request.

Can't find what you're looking for? Don't hesitate to contact us...

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OPTICAL FIBRE ASSEMBLIES

Patchcords

Simplex Patchcords – Singlemode

OS1 - APC

Diagram & Cable Cross Section

L (m) +10/-0cms

Optical fibre
900μm buffer fibre
Strength member
Jacket
(flame retardant LSZH)
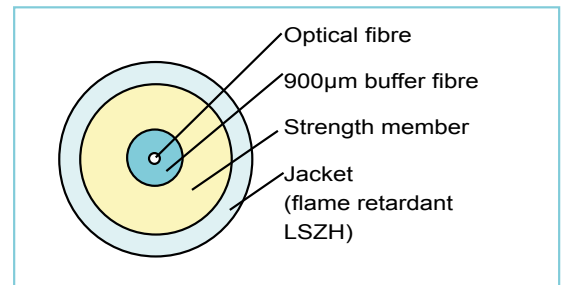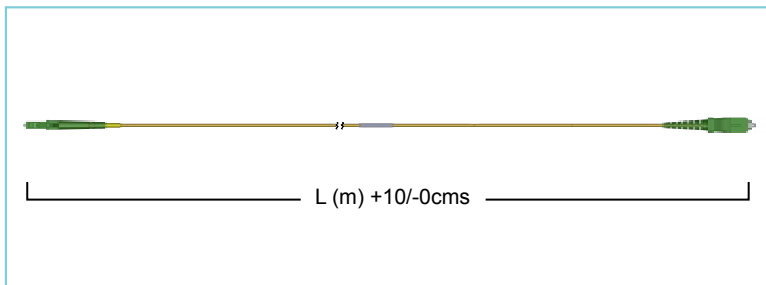
Features & Specification
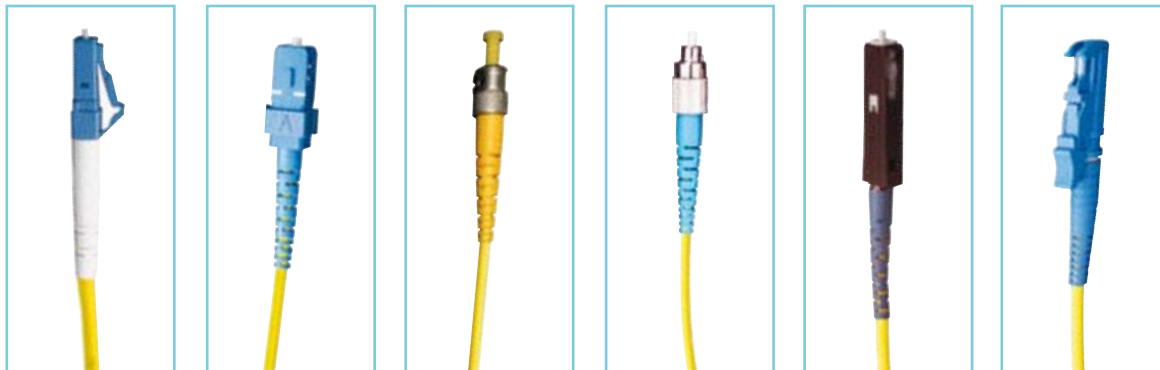
► Available in SC,ST, FC, LC & E2000 connector styles.

► Low insertion loss (<0.3dB) & high return loss (>60dB).

► RoHS compliant.

► Standard product manufactured on 2.8mm (nominal dia.) LSZH zip cable. Also available in 2mm (nominal dia.) cable.

► Individual test sheet and unique product identification number for traceability.

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-
Singlemode Return Loss UPC	IEC61300-3-6	>60dB

Patchcords

Simplex Patchcords – Singlemode

OS1-APC	LC	SC	ST	FC	MU	E2000
LC	LCALCA09SYE1 = 1M LCALCA09SYE2 = 2M LCALCA09SYE3 = 3M LCALCA09SYE5 = 5M LCALCA09SYE10 = 10M	LCASCA09SYE1 = 1M LCASCA09SYE2 = 2M LCASCA09SYE3 = 3M LCASCA09SYE5 = 5M LCASCA09SYE10 = 10M	LCAST09SYE1 = 1M LCAST09SYE2 = 2M LCAST09SYE3 = 3M LCAST09SYE5 = 5M LCAST09SYE10 = 10M	FCALCA09SYE1 = 1M FCALCA09SYE2 = 2M FCALCA09SYE3 = 3M FCALCA09SYE5 = 5M FCALCA09SYE10 = 10M	LCAMU09SYE1 = 1M LCAMU09SYE2 = 2M LCAMU09SYE3 = 3M LCAMU09SYE5 = 5M LCAMU09SYE10 = 10M	E2ALCA09SYE1 = 1M E2ALCA09SYE2 = 2M E2ALCA09SYE3 = 3M E2ALCA09SYE5 = 5M E2ALCA09SYE10 = 10M
SC	LCASCA09SYE1 = 1M LCASCA09SYE2 = 2M LCASCA09SYE3 = 3M LCASCA09SYE5 = 5M LCASCA09SYE10 = 10M	SCASCA09SYE1 = 1M SCASCA09SYE2 = 2M SCASCA09SYE3 = 3M SCASCA09SYE5 = 5M SCASCA09SYE10 = 10M	SCAST09SYE1 = 1M SCAST09SYE2 = 2M SCAST09SYE3 = 3M SCAST09SYE5 = 5M SCAST09SYE10 = 10M	FCASCA09SYE1 = 1M FCASCA09SYE2 = 2M FCASCA09SYE3 = 3M FCASCA09SYE5 = 5M FCASCA09SYE10 = 10M	MUASCA09SYE1 = 1M MUASCA09SYE2 = 2M MUASCA09SYE3 = 3M MUASCA09SYE5 = 5M MUASCA09SYE10 = 10M	E2ASCA09SYE1 = 1M E2ASCA09SYE2 = 2M E2ASCA09SYE3 = 3M E2ASCA09SYE5 = 5M E2ASCA09SYE10 = 10M
ST	LCAST09SYE1 = 1M LCAST09SYE2 = 2M LCAST09SYE3 = 3M LCAST09SYE5 = 5M LCAST09SYE10 = 10M	SCAST09SYE1 = 1M SCAST09SYE2 = 2M SCAST09SYE3 = 3M SCAST09SYE5 = 5M SCAST09SYE10 = 10M	STASTA09SYE1 = 1M STASTA09SYE2 = 2M STASTA09SYE3 = 3M STASTA09SYE5 = 5M STASTA09SYE10 = 10M	FCASTA09SYE1 = 1M FCASTA09SYE2 = 2M FCASTA09SYE3 = 3M FCASTA09SYE5 = 5M FCASTA09SYE10 = 10M	MUASTA09SYE1 = 1M MUASTA09SYE2 = 2M MUASTA09SYE3 = 3M MUASTA09SYE5 = 5M MUASTA09SYE10 = 10M	E2AST09SYE1 = 1M E2AST09SYE2 = 2M E2AST09SYE3 = 3M E2AST09SYE5 = 5M E2AST09SYE10 = 10M
FC	FCALCA09SYE1 = 1M FCALCA09SYE2 = 2M FCALCA09SYE3 = 3M FCALCA09SYE5 = 5M FCALCA09SYE10 = 10M	FCASCA09SYE1 = 1M FCASCA09SYE2 = 2M FCASCA09SYE3 = 3M FCASCA09SYE5 = 5M FCASCA09SYE10 = 10M	FCASTA09SYE1 = 1M FCASTA09SYE2 = 2M FCASTA09SYE3 = 3M FCASTA09SYE5 = 5M FCASTA09SYE10 = 10M	FCAFCA09SYE1 = 1M FCAFCA09SYE2 = 2M FCAFCA09SYE3 = 3M FCAFCA09SYE5 = 5M FCAFCA09SYE10 = 10M	FCAMUA09SYE1 = 1M FCAMUA09SYE2 = 2M FCAMUA09SYE3 = 3M FCAMUA09SYE5 = 5M FCAMUA09SYE10 = 10M	E2AFCA09SYE1 = 1M E2AFCA09SYE2 = 2M E2AFCA09SYE3 = 3M E2AFCA09SYE5 = 5M E2AFCA09SYE10 = 10M
MU	LCAMU09SYE1 = 1M LCAMU09SYE2 = 2M LCAMU09SYE3 = 3M LCAMU09SYE5 = 5M LCAMU09SYE10 = 10M	MUASCA09SYE1 = 1M MUASCA09SYE2 = 2M MUASCA09SYE3 = 3M MUASCA09SYE5 = 5M MUASCA09SYE10 = 10M	MUASTA09SYE1 = 1M MUASTA09SYE2 = 2M MUASTA09SYE3 = 3M MUASTA09SYE5 = 5M MUASTA09SYE10 = 10M	FCAMUA09SYE1 = 1M FCAMUA09SYE2 = 2M FCAMUA09SYE3 = 3M FCAMUA09SYE5 = 5M FCAMUA09SYE10 = 10M	MUAMUA09SYE1 = 1M MUAMUA09SYE2 = 2M MUAMUA09SYE3 = 3M MUAMUA09SYE5 = 5M MUAMUA09SYE10 = 10M	E2AMUA09SYE1 = 1M E2AMUA09SYE2 = 2M E2AMUA09SYE3 = 3M E2AMUA09SYE5 = 5M E2AMUA09SYE10 = 10M
E2000	E2ALCA09SYE1 = 1M E2ALCA09SYE2 = 2M E2ALCA09SYE3 = 3M E2ALCA09SYE5 = 5M E2ALCA09SYE10 = 10M	E2ASCA09SYE1 = 1M E2ASCA09SYE2 = 2M E2ASCA09SYE3 = 3M E2ASCA09SYE5 = 5M E2ASCA09SYE10 = 10M	E2AST09SYE1 = 1M E2AST09SYE2 = 2M E2AST09SYE3 = 3M E2AST09SYE5 = 5M E2AST09SYE10 = 10M	E2AFCA09SYE1 = 1M E2AFCA09SYE2 = 2M E2AFCA09SYE3 = 3M E2AFCA09SYE5 = 5M E2AFCA09SYE10 = 10M	E2AMUA09SYE1 = 1M E2AMUA09SYE2 = 2M E2AMUA09SYE3 = 3M E2AMUA09SYE5 = 5M E2AMUA09SYE10 = 10M	E2AE2A09SYE1 = 1M E2AE2A09SYE2 = 2M E2AE2A09SYE3 = 3M E2AE2A09SYE5 = 5M E2AE2A09SYE10 = 10M

FOR SINGLEMODE PATCHCORDS	
>60 dB APC (Angle Polish Connector)	≤0.5 dB
MAXIMUM INSERTION LOSS	
SM Ceramic Ferrule Connectors	≤0.3 dB
ASSEMBLY SPECIFICATION	
Length of assembly (A)	
	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

Can't find what you're looking for? Don't hesitate to contact us…

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Patchcords

Duplex Patchcords – Singlemode

OS1

Diagram & Cable Cross Section

L (m) +10/-0cms

15cms   15cms

Optical fibre
900µm buffer fibre
Strength member
Jacket (flame
retardant LSZH)

Features & Specification

► Available in SC, ST, FC, LC, E2000 & MU
  connector styles.

► Low insertion loss (<0.3dB) & high return loss (>50dB).

► RoHS compliant.

► Standard product manufactured on 2.8mm (nominal dia.)
  LSZH zip cable. Also available in 2mm (nominal dia.) cable.

► Individual test sheet and unique product identification
  number for traceability.

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-
Singlemode Return Loss UPC	IEC61300-3-6	>50dB

Patchcords

Duplex Patchcords – Singlemode

OS1	LC	SC	ST	FC	MU	E2000
LC	LCLC09DYE1 = 1M LCLC09DYE2 = 2M LCLC09DYE3 = 3M LCLC09DYE5 = 5M LCLC09DYE10 = 10M	LCSC09DYE1 = 1M LCSC09DYE2 = 2M LCSC09DYE3 = 3M LCSC09DYE5 = 5M LCSC09DYE10 = 10M	LCST09DYE1 = 1M LCST09DYE2 = 2M LCST09DYE3 = 3M LCST09DYE5 = 5M LCST09DYE10 = 10M	LCFC09DYE1 = 1M LCFC09DYE2 = 2M LCFC09DYE3 = 3M LCFC09DYE5 = 5M LCFC09DYE10 = 10M	LCMU09DYE1 = 1M LCMU09DYE2 = 2M LCMU09DYE3 = 3M LCMU09DYE5 = 5M LCMU09DYE10 = 10M	E2LC09DYE1 = 1M E2LC09DYE2 = 2M E2LC09DYE3 = 3M E2LC09DYE5 = 5M E2LC09DYE10 = 10M
SC	LCSC09DYE1 = 1M LCSC09DYE2 = 2M LCSC09DYE3 = 3M LCSC09DYE5 = 5M LCSC09DYE10 = 10M	SCSC09DYE1 = 1M SCSC09DYE2 = 2M SCSC09DYE3 = 3M SCSC09DYE5 = 5M SCSC09DYE10 = 10M	SCST09DYE1 = 1M SCST09DYE2 = 2M SCST09DYE3 = 3M SCST09DYE5 = 5M SCST09DYE10 = 10M	FCSC09DYE1 = 1M FCSC09DYE2 = 2M FCSC09DYE3 = 3M FCSC09DYE5 = 5M FCSC09DYE10 = 10M	MUSC09DYE1 = 1M MUSC09DYE2 = 2M MUSC09DYE3 = 3M MUSC09DYE5 = 5M MUSC09DYE10 = 10M	E2SC09DYE1 = 1M E2SC09DYE2 = 2M E2SC09DYE3 = 3M E2SC09DYE5 = 5M E2SC09DYE10 = 10M
ST	LCST09DYE1 = 1M LCST09DYE2 = 2M LCST09DYE3 = 3M LCST09DYE5 = 5M LCST09DYE10 = 10M	SCST09DYE1 = 1M SCST09DYE2 = 2M SCST09DYE3 = 3M SCST09DYE5 = 5M SCST09DYE10 = 10M	STST09DYE1 = 1M STST09DYE2 = 2M STST09DYE3 = 3M STST09DYE5 = 5M STST09DYE10 = 10M	FCST09DYE1 = 1M FCST09DYE2 = 2M FCST09DYE3 = 3M FCST09DYE5 = 5M FCST09DYE10 = 10M	MUST09DYE1 = 1M MUST09DYE2 = 2M MUST09DYE3 = 3M MUST09DYE5 = 5M MUST09DYE10 = 10M	E2ST09DYE1 = 1M E2ST09DYE2 = 2M E2ST09DYE3 = 3M E2ST09DYE5 = 5M E2ST09DYE10 = 10M
FC	LCFC09DYE1 = 1M LCFC09DYE2 = 2M LCFC09DYE3 = 3M LCFC09DYE5 = 5M LCFC09DYE10 = 10M	FCSC09DYE1 = 1M FCSC09DYE2 = 2M FCSC09DYE3 = 3M FCSC09DYE5 = 5M FCSC09DYE10 = 10M	FCST09DYE1 = 1M FCST09DYE2 = 2M FCST09DYE3 = 3M FCST09DYE5 = 5M FCST09DYE10 = 10M	FCFC09DYE1 = 1M FCFC09DYE2 = 2M FCFC09DYE3 = 3M FCFC09DYE5 = 5M FCFC09DYE10 = 10M	FCMU09DYE1 = 1M FCMU09DYE2 = 2M FCMU09DYE3 = 3M FCMU09DYE5 = 5M FCMU09DYE10 = 10M	E2FC09DYE1 = 1M E2FC09DYE2 = 2M E2FC09DYE3 = 3M E2FC09DYE5 = 5M E2FC09DYE10 = 10M
MU	LCMU09DYE1 = 1M LCMU09DYE2 = 2M LCMU09DYE3 = 3M LCMU09DYE5 = 5M LCMU09DYE10 = 10M	MUSC09DYE1 = 1M MUSC09DYE2 = 2M MUSC09DYE3 = 3M MUSC09DYE5 = 5M MUSC09DYE10 = 10M	MUST09DYE1 = 1M MUST09DYE2 = 2M MUST09DYE3 = 3M MUST09DYE5 = 5M MUST09DYE10 = 10M	FCMU09DYE1 = 1M FCMU09DYE2 = 2M FCMU09DYE3 = 3M FCMU09DYE5 = 5M FCMU09DYE10 = 10M	MUMU09DYE1 = 1M MUMU09DYE2 = 2M MUMU09DYE3 = 3M MUMU09DYE5 = 5M MUMU09DYE10 = 10M	E2MU09DYE1 = 1M E2MU09DYE2 = 2M E2MU09DYE3 = 3M E2MU09DYE5 = 5M E2MU09DYE10 = 10M
E2000	E2LC09DYE1 = 1M E2LC09DYE2 = 2M E2LC09DYE3 = 3M E2LC09DYE5 = 5M E2LC09DYE10 = 10M	E2SC09DYE1 = 1M E2SC09DYE2 = 2M E2SC09DYE3 = 3M E2SC09DYE5 = 5M E2SC09DYE10 = 10M	E2ST09DYE1 = 1M E2ST09DYE2 = 2M E2ST09DYE3 = 3M E2ST09DYE5 = 5M E2ST09DYE10 = 10M	E2FC09DYE1 = 1M E2FC09DYE2 = 2M E2FC09DYE3 = 3M E2FC09DYE5 = 5M E2FC09DYE10 = 10M	E2MU09DYE1 = 1M E2MU09DYE2 = 2M E2MU09DYE3 = 3M E2MU09DYE5 = 5M E2MU09DYE10 = 10M	E2E209DYE1 = 1M E2E209DYE2 = 2M E2E209DYE3 = 3M E2E209DYE5 = 5M E2E209DYE10 = 10M

ASSEMBLY SPECIFICATION	
Length of assembly (A)	
	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

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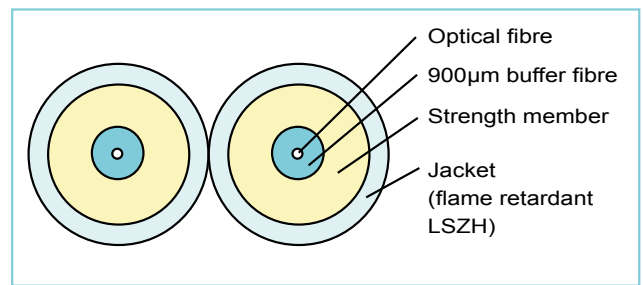
OPTICAL FIBRE ASSEMBLIES

Patchcords

Duplex Patchcords – Singlemode APC

OS1 APC

Diagram & Cable Cross Section

L (m) +10/-0cms

15cms   15cms

Optical fibre
900µm buffer fibre
Strength member
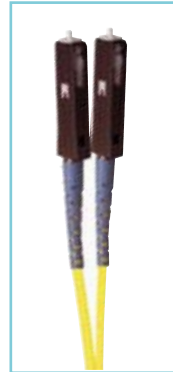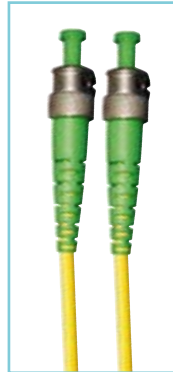Jacket
(flame retardant LSZH)
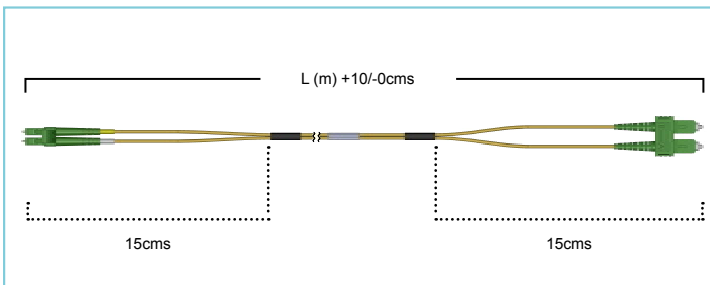
Features & Specification

► Available in SC, FC, LC & E2000 connector styles.

► Low insertion loss (<0.3dB) & high return loss (>60dB).

► RoHS compliant.

► Standard product manufactured on 2.8mm (nominal dia.) LSZH zip cable. Also available in 2mm (nominal dia.) cable.

► Individual test sheet and unique product identification number for traceability.

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-
Singlemode Return Loss UPC	IEC61300-3-6	>60dB

Patchcords

Duplex Patchcords – Singlemode APC

OS1-APC	LC	SC	ST	FC	MU	E2000
LC	LCALCA09DYE1 = 1M LCALCA09DYE2 = 2M LCALCA09DYE3 = 3M LCALCA09DYE5 = 5M LCALCA09DYE10 = 10M	LCASCA09DYE1 = 1M LCASCA09DYE2 = 2M LCASCA09DYE3 = 3M LCASCA09DYE5 = 5M LCASCA09DYE10 = 10M	LCAST09DYE1 = 1M LCAST09DYE2 = 2M LCAST09DYE3 = 3M LCAST09DYE5 = 5M LCAST09DYE10 = 10M	FCALCA09DYE1 = 1M FCALCA09DYE2 = 2M FCALCA09DYE3 = 3M FCALCA09DYE5 = 5M FCALCA09DYE10 = 10M	LCAMU09DYE1 = 1M LCAMU09DYE2 = 2M LCAMU09DYE3 = 3M LCAMU09DYE5 = 5M LCAMU09DYE10 = 10M	E2ALCA09DYE1 = 1M E2ALCA09DYE2 = 2M E2ALCA09DYE3 = 3M E2ALCA09DYE5 = 5M E2ALCA09DYE10 = 10M
SC	LCASCA09DYE1 = 1M LCASCA09DYE2 = 2M LCASCA09DYE3 = 3M LCASCA09DYE5 = 5M LCASCA09DYE10 = 10M	SCASCA09DYE1 = 1M SCASCA09DYE2 = 2M SCASCA09DYE3 = 3M SCASCA09DYE5 = 5M SCASCA09DYE10 = 10M	SCAST09DYE1 = 1M SCAST09DYE2 = 2M SCAST09DYE3 = 3M SCAST09DYE5 = 5M SCAST09DYE10 = 10M	FCASCA09DYE1 = 1M FCASCA09DYE2 = 2M FCASCA09DYE3 = 3M FCASCA09DYE5 = 5M FCASCA09DYE10 = 10M	MUSCA09DYE1 = 1M MUSCA09DYE2 = 2M MUSCA09DYE3 = 3M MUSCA09DYE5 = 5M MUSCA09DYE10 = 10M	E2ASCA09DYE1 = 1M E2ASCA09DYE2 = 2M E2ASCA09DYE3 = 3M E2ASCA09DYE5 = 5M E2ASCA09DYE10 = 10M
ST	LCAST09DYE1 = 1M LCAST09DYE2 = 2M LCAST09DYE3 = 3M LCAST09DYE5 = 5M LCAST09DYE10 = 10M	SCAST09DYE1 = 1M SCAST09DYE2 = 2M SCAST09DYE3 = 3M SCAST09DYE5 = 5M SCAST09DYE10 = 10M	STASTA09DYE1 = 1M STASTA09DYE2 = 2M STASTA09DYE3 = 3M STASTA09DYE5 = 5M STASTA09DYE10 = 10M	FCASTA09DYE1 = 1M FCASTA09DYE2 = 2M FCASTA09DYE3 = 3M FCASTA09DYE5 = 5M FCASTA09DYE10 = 10M	MUSTA09DYE1 = 1M MUSTA09DYE2 = 2M MUSTA09DYE3 = 3M MUSTA09DYE5 = 5M MUSTA09DYE10 = 10M	E2AST09DYE1 = 1M E2AST09DYE2 = 2M E2AST09DYE3 = 3M E2AST09DYE5 = 5M E2AST09DYE10 = 10M
FC	FCALCA09DYE1 = 1M FCALCA09DYE2 = 2M FCALCA09DYE3 = 3M FCALCA09DYE5 = 5M FCALCA09DYE10 = 10M	FCASCA09DYE1 = 1M FCASCA09DYE2 = 2M FCASCA09DYE3 = 3M FCASCA09DYE5 = 5M FCASCA09DYE10 = 10M	FCASTA09DYE1 = 1M FCASTA09DYE2 = 2M FCASTA09DYE3 = 3M FCASTA09DYE5 = 5M FCASTA09DYE10 = 10M	FCAFCA09DYE1 = 1M FCAFCA09DYE2 = 2M FCAFCA09DYE3 = 3M FCAFCA09DYE5 = 5M FCAFCA09DYE10 = 10M	FCAMU09DYE1 = 1M FCAMU09DYE2 = 2M FCAMU09DYE3 = 3M FCAMU09DYE5 = 5M FCAMU09DYE10 = 10M	E2AFCA09DYE1 = 1M E2AFCA09DYE2 = 2M E2AFCA09DYE3 = 3M E2AFCA09DYE5 = 5M E2AFCA09DYE10 = 10M
MU	LCAMU09DYE1 = 1M LCAMU09DYE2 = 2M LCAMU09DYE3 = 3M LCAMU09DYE5 = 5M LCAMU09DYE10 = 10M	MUSCA09DYE1 = 1M MUSCA09DYE2 = 2M MUSCA09DYE3 = 3M MUSCA09DYE5 = 5M MUSCA09DYE10 = 10M	MUSTA09DYE1 = 1M MUSTA09DYE2 = 2M MUSTA09DYE3 = 3M MUSTA09DYE5 = 5M MUSTA09DYE10 = 10M	FCAMU09DYE1 = 1M FCAMU09DYE2 = 2M FCAMU09DYE3 = 3M FCAMU09DYE5 = 5M FCAMU09DYE10 = 10M	MUMU09DYE1 = 1M MUMU09DYE2 = 2M MUMU09DYE3 = 3M MUMU09DYE5 = 5M MUMU09DYE10 = 10M	E2AMU09DYE1 = 1M E2AMU09DYE2 = 2M E2AMU09DYE3 = 3M E2AMU09DYE5 = 5M E2AMU09DYE10 = 10M
E2000	E2ALCA09DYE1 = 1M E2ALCA09DYE2 = 2M E2ALCA09DYE3 = 3M E2ALCA09DYE5 = 5M E2ALCA09DYE10 = 10M	E2ASCA09DYE1 = 1M E2ASCA09DYE2 = 2M E2ASCA09DYE3 = 3M E2ASCA09DYE5 = 5M E2ASCA09DYE10 = 10M	E2AST09DYE1 = 1M E2AST09DYE2 = 2M E2AST09DYE3 = 3M E2AST09DYE5 = 5M E2AST09DYE10 = 10M	E2AFCA09DYE1 = 1M E2AFCA09DYE2 = 2M E2AFCA09DYE3 = 3M E2AFCA09DYE5 = 5M E2AFCA09DYE10 = 10M	E2AMU09DYE1 = 1M E2AMU09DYE2 = 2M E2AMU09DYE3 = 3M E2AMU09DYE5 = 5M E2AMU09DYE10 = 10M	E2AE2A09DYE1 = 1M E2AE2A09DYE2 = 2M E2AE2A09DYE3 = 3M E2AE2A09DYE5 = 5M E2AE2A09DYE10 = 10M

ASSEMBLY SPECIFICATION	
Length of assembly (A)	
	Tolerance
Less than 0.5m	-0/+0.10m
Between 0.5m and 5m	-0/+0.15m
Greater than 5m	-0/+0.20m

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Patchcords

Duplex Patchcords – Multimode

OM1 & OM2

Diagram & Cable Cross Section

L (m) +10/-0cms

15cms   15cms

Optical fibre
900µm buffer fibre
Strength member
Jacket
(flame retardant
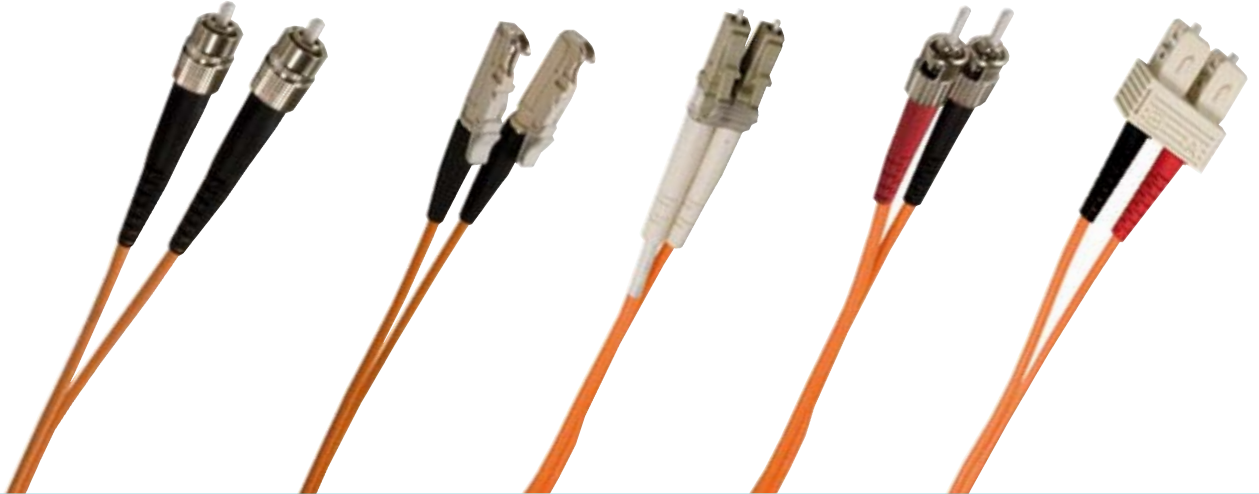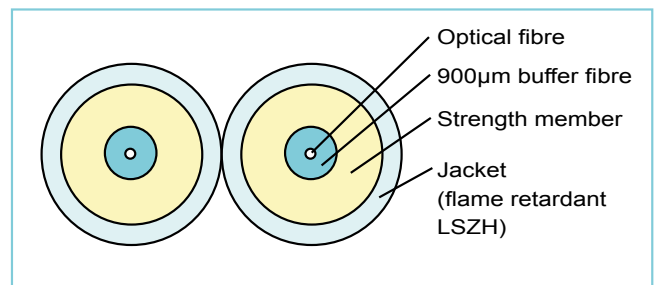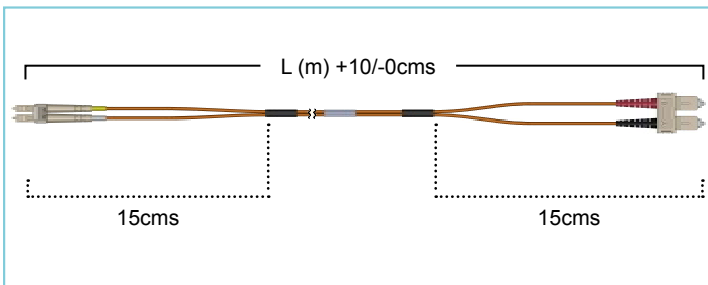LSZH)

• Cable colours standard: Orange.
• Other colours available on request: Yellow, Black, Green, Grey, Red.

Features & Specification

► Available in SC, ST, FC, LC, E2000, MTRJ & MU connector styles.

► Low insertion loss (<0.3dB).

► RoHS compliant.

► Standard product manufactured on 2.8mm (nominal dia.) LSZH zip cable. Also available in 2mm (nominal dia.) cable.

► Meets international reliability standards.

► Individual test sheet and unique product identification number for traceability.

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-

Patchcords

OM1

	LC	SC	ST	FC	MU	E2000
LC	LCLC62DOR1 = 1M LCLC62DOR2 = 2M LCLC62DOR3 = 3M LCLC62DOR5 = 5M LCLC62DOR10 = 10M	LCSC62DOR1 = 1M LCSC62DOR2 = 2M LCSC62DOR3 = 3M LCSC62DOR5 = 5M LCSC62DOR10 = 10M	LCST62DOR1 = 1M LCST62DOR2 = 2M LCST62DOR3 = 3M LCST62DOR5 = 5M LCST62DOR10 = 10M	FCLC62DOR1 = 1M FCLC62DOR2 = 2M FCLC62DOR3 = 3M FCLC62DOR5 = 5M FCLC62DOR10 = 10M	LCMU62DOR1 = 1M LCMU62DOR2 = 2M LCMU62DOR3 = 3M LCMU62DOR5 = 5M LCMU62DOR10 = 10M	E2LC62DOR1 = 1M E2LC62DOR2 = 2M E2LC62DOR3 = 3M E2LC62DOR5 = 5M E2LC62DOR10 = 10M
SC	LCSC62DOR1 = 1M LCSC62DOR2 = 2M LCSC62DOR3 = 3M LCSC62DOR5 = 5M LCSC62DOR10 = 10M	SCSC62DOR1 = 1M SCSC62DOR2 = 2M SCSC62DOR3 = 3M SCSC62DOR5 = 5M SCSC62DOR10 = 10M	SCST62DOR1 = 1M SCST62DOR2 = 2M SCST62DOR3 = 3M SCST62DOR5 = 5M SCST62DOR10 = 10M	FCSC62DOR1 = 1M FCSC62DOR2 = 2M FCSC62DOR3 = 3M FCSC62DOR5 = 5M FCSC62DOR10 = 10M	MUSC62DOR1 = 1M MUSC62DOR2 = 2M MUSC62DOR3 = 3M MUSC62DOR5 = 5M MUSC62DOR10 = 10M	E2SC62DOR1 = 1M E2SC62DOR2 = 2M E2SC62DOR3 = 3M E2SC62DOR5 = 5M E2SC62DOR10 = 10M
ST	LCST62DOR1 = 1M LCST62DOR2 = 2M LCST62DOR3 = 3M LCST62DOR5 = 5M LCST62DOR10 = 10M	SCST62DOR1 = 1M SCST62DOR2 = 2M SCST62DOR3 = 3M SCST62DOR5 = 5M SCST62DOR10 = 10M	STST62DOR1 = 1M STST62DOR2 = 2M STST62DOR3 = 3M STST62DOR5 = 5M STST62DOR10 = 10M	FCST62DOR1 = 1M FCST62DOR2 = 2M FCST62DOR3 = 3M FCST62DOR5 = 5M FCST62DOR10 = 10M	MUST62DOR1 = 1M MUST62DOR2 = 2M MUST62DOR3 = 3M MUST62DOR5 = 5M MUST62DOR10 = 10M	E2ST62DOR1 = 1M E2ST62DOR2 = 2M E2ST62DOR3 = 3M E2ST62DOR5 = 5M E2ST62DOR10 = 10M
FC	FCLC62DOR1 = 1M FCLC62DOR2 = 2M FCLC62DOR3 = 3M FCLC62DOR5 = 5M FCLC62DOR10 = 10M	FCSC62DOR1 = 1M FCSC62DOR2 = 2M FCSC62DOR3 = 3M FCSC62DOR5 = 5M FCSC62DOR10 = 10M	FCST62DOR1 = 1M FCST62DOR2 = 2M FCST62DOR3 = 3M FCST62DOR5 = 5M FCST62DOR10 = 10M	FCFC62DOR1 = 1M FCFC62DOR2 = 2M FCFC62DOR3 = 3M FCFC62DOR5 = 5M FCFC62DOR10 = 10M	LCMU62DOR1 = 1M LCMU62DOR2 = 2M LCMU62DOR3 = 3M LCMU62DOR5 = 5M LCMU62DOR10 = 10M	E2FC62DOR1 = 1M E2FC62DOR2 = 2M E2FC62DOR3 = 3M E2FC62DOR5 = 5M E2FC62DOR10 = 10M
MU	LCMU62DOR1 = 1M LCMU62DOR2 = 2M LCMU62DOR3 = 3M LCMU62DOR5 = 5M LCMU62DOR10 = 10M	MUSC62DOR1 = 1M MUSC62DOR2 = 2M MUSC62DOR3 = 3M MUSC62DOR5 = 5M MUSC62DOR10 = 10M	MUST62DOR1 = 1M MUST62DOR2 = 2M MUST62DOR3 = 3M MUST62DOR5 = 5M MUST62DOR10 = 10M	LCMU62DOR1 = 1M LCMU62DOR2 = 2M LCMU62DOR3 = 3M LCMU62DOR5 = 5M LCMU62DOR10 = 10M	MUMU62DOR1 = 1M MUMU62DOR2 = 2M MUMU62DOR3 = 3M MUMU62DOR5 = 5M MUMU62DOR10 = 10M	E2MU62DOR1 = 1M E2MU62DOR2 = 2M E2MU62DOR3 = 3M E2MU62DOR5 = 5M E2MU62DOR10 = 10M
E2000	E2LC62DOR1 = 1M E2LC62DOR2 = 2M E2LC62DOR3 = 3M E2LC62DOR5 = 5M E2LC62DOR10 = 10M	E2SC62DOR1 = 1M E2SC62DOR2 = 2M E2SC62DOR3 = 3M E2SC62DOR5 = 5M E2SC62DOR10 = 10M	E2ST62DOR1 = 1M E2ST62DOR2 = 2M E2ST62DOR3 = 3M E2ST62DOR5 = 5M E2ST62DOR10 = 10M	E2FC62DOR1 = 1M E2FC62DOR2 = 2M E2FC62DOR3 = 3M E2FC62DOR5 = 5M E2FC62DOR10 = 10M	E2MU62DOR1 = 1M E2MU62DOR2 = 2M E2MU62DOR3 = 3M E2MU62DOR5 = 5M E2MU62DOR10 = 10M	E2E2C62DOR1 = 1M E2E262DOR2 = 2M E2E262DOR3 = 3M E2E262DOR5 = 5M E2E262DOR10 = 10M

OM2

	LC	SC	ST	FC	MU	E2000
LC	LCLC50DOR1 = 1M LCLC50DOR2 = 2M LCLC50DOR3 = 3M LCLC50DOR5 = 5M LCLC50DOR10 = 10M	LCSC50DOR1 = 1M LCSC50DOR2 = 2M LCSC50DOR3 = 3M LCSC50DOR5 = 5M LCSC50DOR10 = 10M	LCST50DOR1 = 1M LCST50DOR2 = 2M LCST50DOR3 = 3M LCST50DOR5 = 5M LCST50DOR10 = 10M	FCLC50DOR1 = 1M FCLC50DOR2 = 2M FCLC50DOR3 = 3M FCLC50DOR5 = 5M FCLC50DOR10 = 10M	LCMU50DOR1 = 1M LCMU50DOR2 = 2M LCMU50DOR3 = 3M LCMU50DOR5 = 5M LCMU50DOR10 = 10M	E2LC50DOR1 = 1M E2LC50DOR2 = 2M E2LC50DOR3 = 3M E2LC50DOR5 = 5M E2LC50DOR10 = 10M
SC	LCSC50DOR1 = 1M LCSC50DOR2 = 2M LCSC50DOR3 = 3M LCSC50DOR5 = 5M LCSC50DOR10 = 10M	SCSC50DOR1 = 1M SCSC50DOR2 = 2M SCSC50DOR3 = 3M SCSC50DOR5 = 5M SCSC50DOR10 = 10M	SCST50DOR1 = 1M SCST50DOR2 = 2M SCST50DOR3 = 3M SCST50DOR5 = 5M SCST50DOR10 = 10M	FCSC50DOR1 = 1M FCSC50DOR2 = 2M FCSC50DOR3 = 3M FCSC50DOR5 = 5M FCSC50DOR10 = 10M	MUSC50DOR1 = 1M MUSC50DOR2 = 2M MUSC50DOR3 = 3M MUSC50DOR5 = 5M MUSC50DOR10 = 10M	E2SC50DOR1 = 1M E2SC50DOR2 = 2M E2SC50DOR3 = 3M E2SC50DOR5 = 5M E2SC50DOR10 = 10M
ST	LCST50DOR1 = 1M LCST50DOR2 = 2M LCST50DOR3 = 3M LCST50DOR5 = 5M LCST50DOR10 = 10M	SCST50DOR1 = 1M SCST50DOR2 = 2M SCST50DOR3 = 3M SCST50DOR5 = 5M SCST50DOR10 = 10M	STST50DOR1 = 1M STST50DOR2 = 2M STST50DOR3 = 3M STST50DOR5 = 5M STST50DOR10 = 10M	FCST50DOR1 = 1M FCST50DOR2 = 2M FCST50DOR3 = 3M FCST50DOR5 = 5M FCST50DOR10 = 10M	MUST50DOR1 = 1M MUST50DOR2 = 2M MUST50DOR3 = 3M MUST50DOR5 = 5M MUST50DOR10 = 10M	E2ST50DOR1 = 1M E2ST50DOR2 = 2M E2ST50DOR3 = 3M E2ST50DOR5 = 5M E2ST50DOR10 = 10M
FC	FCLC50DOR1 = 1M FCLC50DOR2 = 2M FCLC50DOR3 = 3M FCLC50DOR5 = 5M FCLC50DOR10 = 10M	FCSC50DOR1 = 1M FCSC50DOR2 = 2M FCSC50DOR3 = 3M FCSC50DOR5 = 5M FCSC50DOR10 = 10M	FCST50DOR1 = 1M FCST50DOR2 = 2M FCST50DOR3 = 3M FCST50DOR5 = 5M FCST50DOR10 = 10M	FCFC50DOR1 = 1M FCFC50DOR2 = 2M FCFC50DOR3 = 3M FCFC50DOR5 = 5M FCFC50DOR10 = 10M	FCMU50DOR1 = 1M FCMU50DOR2 = 2M FCMU50DOR3 = 3M FCMU50DOR5 = 5M FCMU50DOR10 = 10M	E2FC50DOR1 = 1M E2FC50DOR2 = 2M E2FC50DOR3 = 3M E2FC50DOR5 = 5M E2FC50DOR10 = 10M
MU	LCMU50DOR1 = 1M LCMU50DOR2 = 2M LCMU50DOR3 = 3M LCMU50DOR5 = 5M LCMU50DOR10 = 10M	MUSC50DOR1 = 1M MUSC50DOR2 = 2M MUSC50DOR3 = 3M MUSC50DOR5 = 5M MUSC50DOR10 = 10M	MUST50DOR1 = 1M MUST50DOR2 = 2M MUST50DOR3 = 3M MUST50DOR5 = 5M MUST50DOR10 = 10M	FCMU50DOR1 = 1M FCMU50DOR2 = 2M FCMU50DOR3 = 3M FCMU50DOR5 = 5M FCMU50DOR10 = 10M	MUMU50DOR1 = 1M MUMU50DOR2 = 2M MUMU50DOR3 = 3M MUMU50DOR5 = 5M MUMU50DOR10 = 10M	E2MU50DOR1 = 1M E2MU50DOR2 = 2M E2MU50DOR3 = 3M E2MU50DOR5 = 5M E2MU50DOR10 = 10M
E2000	E2LC50DOR1 = 1M E2LC50DOR2 = 2M E2LC50DOR3 = 3M E2LC50DOR5 = 5M E2LC50DOR10 = 10M	E2SC50DOR1 = 1M E2SC50DOR2 = 2M E2SC50DOR3 = 3M E2SC50DOR5 = 5M E2SC50DOR10 = 10M	E2ST50DOR1 = 1M E2ST50DOR2 = 2M E2ST50DOR3 = 3M E2ST50DOR5 = 5M E2ST50DOR10 = 10M	E2FC50DOR1 = 1M E2FC50DOR2 = 2M E2FC50DOR3 = 3M E2FC50DOR5 = 5M E2FC50DOR10 = 10M	E2MU50DOR1 = 1M E2MU50DOR2 = 2M E2MU50DOR3 = 3M E2MU50DOR5 = 5M E2MU50DOR10 = 10M	E2E250DOR1 = 1M E2E250DOR2 = 2M E2E250DOR3 = 3M E2E250DOR5 = 5M E2E250DOR10 = 10M

OPTICAL FIBRE ASSEMBLIES

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Patchcords

Duplex Patchcords – Multimode

OM3

Diagram & Cable Cross Section

L (m) +10/-0cms

15cms   15cms

Optical fibre
900µm buffer fibre
Strength member
Jacket
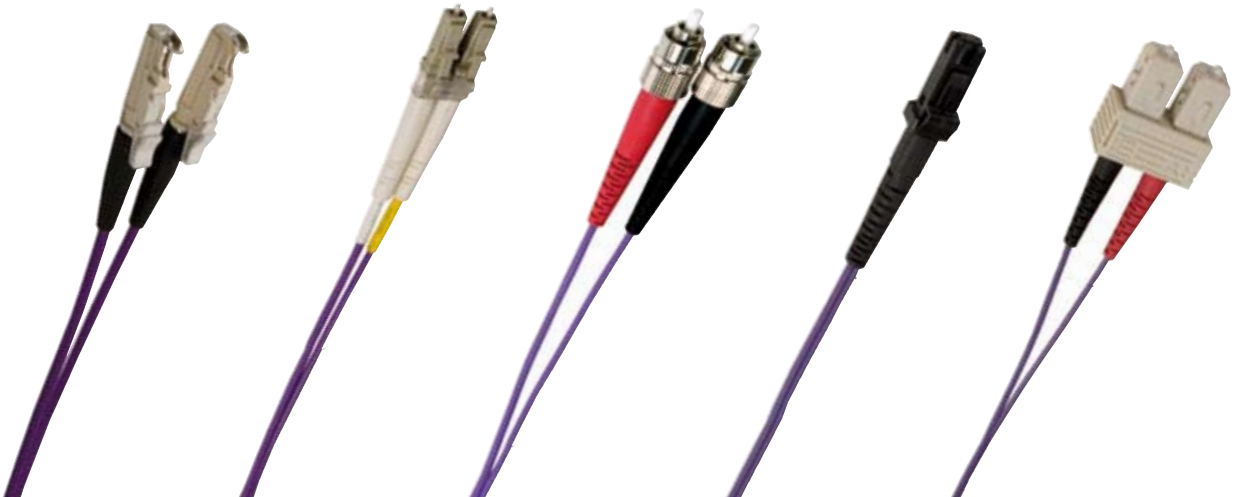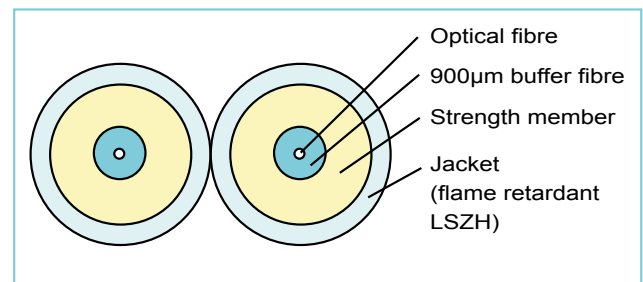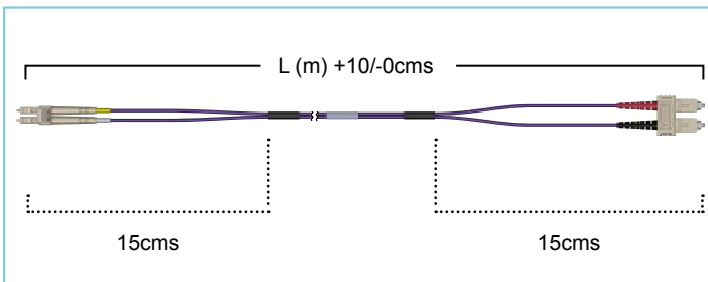(flame retardant LSZH)

- We maintain a standard stock of patchcords in 1,2,3,5 and 10 metre lengths.
- Standard cable colour: Purple.
- Other colours available on request: Orange, Yellow, Blue, Green, and Red.

Features & Specification

► Available in SC, ST, FC, LC, E2000 & MU connector styles.

► Low insertion loss (<0.3dB).

► RoHS Compliant.

► Used in 10GbE, ethernet & fast ethernet and FDDI networks.

► 850nm VCSEL based GbE (1000 base-SX) to support longer distance.

► Standard product manufactured on 2.8mm (nominal dia.) LSZH zip cable. Also available in 2mm (nominal dia.) cable.

► Meets international reliability standards.

► Individual test sheet and unique product identification number for traceability.

Optical Fibre Assemblies

Patchcords

Duplex Patchcords – Multimode

OM3	LC	SC	ST	FC	MU	E2000
LC	LCLCOM3DPU1 = 1M LCLCOM3DPU2 = 2M LCLCOM3DPU3 = 3M LCLCOM3DPU5 = 5M LCLCOM3DPU10 = 10M	LCSCOM3DPU1 = 1M LCSCOM3DPU2 = 2M LCSCOM3DPU3 = 3M LCSCOM3DPU5 = 5M LCSCOM3DPU10 = 10M	LCSTOM3DPU1 = 1M LCSTOM3DPU2 = 2M LCSTOM3DPU3 = 3M LCSTOM3DPU5 = 5M LCSTOM3DPU10 = 10M	LCFCOM3DPU1 = 1M LCFCOM3DPU2 = 2M LCFCOM3DPU3 = 3M LCFCOM3DPU5 = 5M LCFCOM3DPU10 = 10M	LCMUOM3DPU1 = 1M LCMUOM3DPU2 = 2M LCMUOM3DPU3 = 3M LCMUOM3DPU5 = 5M LCMUOM3DPU10 = 10M	E2LCOM3DPU1 = 1M E2LCOM3DPU2 = 2M E2LCOM3DPU3 = 3M E2LCOM3DPU5 = 5M E2LCOM3DPU10 = 10M
SC	LCSCOM3DPU1 = 1M LCSCOM3DPU2 = 2M LCSCOM3DPU3 = 3M LCSCOM3DPU5 = 5M LCSCOM3DPU10 = 10M	SCSCOM3DPU1 = 1M SCSCOM3DPU2 = 2M SCSCOM3DPU3 = 3M SCSCOM3DPU5 = 5M SCSCOM3DPU10 = 10M	SCSTOM3DPU1 = 1M SCSTOM3DPU2 = 2M SCSTOM3DPU3 = 3M SCSTOM3DPU5 = 5M SCSTOM3DPU10 = 10M	FCSCOM3DPU1 = 1M FCSCOM3DPU2 = 2M FCSCOM3DPU3 = 3M FCSCOM3DPU5 = 5M FCSCOM3DPU10 = 10M	MUSCOM3DPU1 = 1M MUSCOM3DPU2 = 2M MUSCOM3DPU3 = 3M MUSCOM3DPU5 = 5M MUSCOM3DPU10 = 10M	E2SCOM3DPU1 = 1M E2SCOM3DPU2 = 2M E2SCOM3DPU3 = 3M E2SCOM3DPU5 = 5M E2SCOM3DPU10 = 10M
ST	LCSTOM3DPU1 = 1M LCSTOM3DPU2 = 2M LCSTOM3DPU3 = 3M LCSTOM3DPU5 = 5M LCSTOM3DPU10 = 10M	SCSTOM3DPU1 = 1M SCSTOM3DPU2 = 2M SCSTOM3DPU3 = 3M SCSTOM3DPU5 = 5M SCSTOM3DPU10 = 10M	STSTOM3DPU1 = 1M STSTOM3DPU2 = 2M STSTOM3DPU3 = 3M STSTOM3DPU5 = 5M STSTOM3DPU10 = 10M	FCSTOM3DPU1 = 1M FCSTOM3DPU2 = 2M FCSTOM3DPU3 = 3M FCSTOM3DPU5 = 5M FCSTOM3DPU10 = 10M	MUSTOM3DPU1 = 1M MUSTOM3DPU2 = 2M MUSTOM3DPU3 = 3M MUSTOM3DPU5 = 5M MUSTOM3DPU10 = 10M	E2STOM3DPU1 = 1M E2STOM3DPU2 = 2M E2STOM3DPU3 = 3M E2STOM3DPU5 = 5M E2STOM3DPU10 = 10M
FC	LCFCOM3DPU1 = 1M LCFCOM3DPU2 = 2M LCFCOM3DPU3 = 3M LCFCOM3DPU5 = 5M LCFCOM3DPU10 = 10M	FCSCOM3DPU1 = 1M FCSCOM3DPU2 = 2M FCSCOM3DPU3 = 3M FCSCOM3DPU5 = 5M FCSCOM3DPU10 = 10M	FCSTOM3DPU1 = 1M FCSTOM3DPU2 = 2M FCSTOM3DPU3 = 3M FCSTOM3DPU5 = 5M FCSTOM3DPU10 = 10M	FCFCOM3DPU1 = 1M FCFCOM3DPU2 = 2M FCFCOM3DPU3 = 3M FCFCOM3DPU5 = 5M FCFCOM3DPU10 = 10M	FCMUOM3DPU1 = 1M FCMUOM3DPU2 = 2M FCMUOM3DPU3 = 3M FCMUOM3DPU5 = 5M FCMUOM3DPU10 = 10M	E2FCOM3DPU1 = 1M E2FCOM3DPU2 = 2M E2FCOM3DPU3 = 3M E2FCOM3DPU5 = 5M E2FCOM3DPU10 = 10M
MU	LCMUOM3DPU1 = 1M LCMUOM3DPU2 = 2M LCMUOM3DPU3 = 3M LCMUOM3DPU5 = 5M LCMUOM3DPU10 = 10M	MUSCOM3DPU1 = 1M MUSCOM3DPU2 = 2M MUSCOM3DPU3 = 3M MUSCOM3DPU5 = 5M MUSCOM3DPU10 = 10M	MUSTOM3DPU1 = 1M MUSTOM3DPU2 = 2M MUSTOM3DPU3 = 3M MUSTOM3DPU5 = 5M MUSTOM3DPU10 = 10M	FCMUOM3DPU1 = 1M FCMUOM3DPU2 = 2M FCMUOM3DPU3 = 3M FCMUOM3DPU5 = 5M FCMUOM3DPU10 = 10M	MUMUOM3DPU1 = 1M MUMUOM3DPU2 = 2M MUMUOM3DPU3 = 3M MUMUOM3DPU5 = 5M MUMUOM3DPU10 = 10M	E2MUOM3DPU1 = 1M E2MUOM3DPU2 = 2M E2MUOM3DPU3 = 3M E2MUOM3DPU5 = 5M E2MUOM3DPU10 = 10M
E2000	E2LCOM3DPU1 = 1M E2LCOM3DPU2 = 2M E2LCOM3DPU3 = 3M E2LCOM3DPU5 = 5M E2LCOM3DPU10 = 10M	E2SCOM3DPU1 = 1M E2SCOM3DPU2 = 2M E2SCOM3DPU3 = 3M E2SCOM3DPU5 = 5M E2SCOM3DPU10 = 10M	E2STOM3DPU1 = 1M E2STOM3DPU2 = 2M E2STOM3DPU3 = 3M E2STOM3DPU5 = 5M E2STOM3DPU10 = 10M	E2FCOM3DPU1 = 1M E2FCOM3DPU2 = 2M E2FCOM3DPU3 = 3M E2FCOM3DPU5 = 5M E2FCOM3DPU10 = 10M	E2MUOM3DPU1 = 1M E2MUOM3DPU2 = 2M E2MUOM3DPU3 = 3M E2MUOM3DPU5 = 5M E2MUOM3DPU10 = 10M	E2E2OM3DPU1 = 1M E2E2OM3DPU2 = 2M E2E2OM3DPU3 = 3M E2E2OM3DPU5 = 5M E2E2OM3DPU10 = 10M

TEST	METHOD	SPECIFICATION
Connector Type Standards	IEC61574 series	-
Insertion Loss	IEC 61300-3-4	<0.30dB
Flammability	IEC60332-1	-

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Pigtails - Multimode

	LC		SC		ST		FC		MTRJ		E2000	
	62.5/125µm	Length	62.5/125µm	Length	62.5/125µm	Length	62.5/125µm	Length	62.5/125µm	62.5/125µm	62.5/125µm	Length
OM1	LC62B	1M	SC62B1	1M	ST62B1	1M	FC62B1	1M	MTRJ62B1	1M	E262B1	1M
	LC62B2	2M	SC62B2	2M	ST62B2	2M	FC62B2	2M	MTRJ62B2	2M	E262B2	2M
	LC62B3	3M	SC62B3	3M	ST62B3	3M	FC62B3	3M	MTRJ62B3	3M	E262B3	3M
	LC62B5	5M	SC62B5	5M	ST62B5	5M	FC62B5	5M	MTRJ62B5	5M	E262B5	5M
	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length
OM2	LC50B1	1M	SC50B1	1M	ST50B1	1M	FC50B1	1M	MTRJ50B1	1M	E250B1	1M
	LC50B2	2M	SC50B2	2M	ST50B2	2M	FC50B2	2M	MTRJ50B2	2M	E250B2	2M
	LC50B3	3M	SC50B3	3M	ST50B3	3M	FC50B3	3M	MTRJ50B3	3M	E250B3	3M
	LC50B5	5M	SC50B5	5M	ST50B5	5M	FC50B5	5M	MTRJ50B5	5M	E250B5	5M
	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length	50/125µm	Length
OM3	LCOM3B1	1M	SCOM3B1	1M	STOM3B1	1M	FCOM3B1	1M	MTRJOM3B1	1M	E2OM3B1	1M
	LCOM3B2	2M	SCOM3B2	2M	STOM3B2	2M	FCOM3B2	2M	MTRJOM3B2	2M	E2OM3B2	2M
	LCOM3B3	3M	SCOM3B3	3M	STOM3B3	3M	FCOM3B3	3M	MTRJOM3B3	3M	E2OM3B3	3M
	LCOM3B5	5M	SCOM3B5	5M	STOM3B5	5M	FCOM3B5	5M	MTRJOM3B5	5M	E2OM3B5	5M

Pigtails - Singlemode
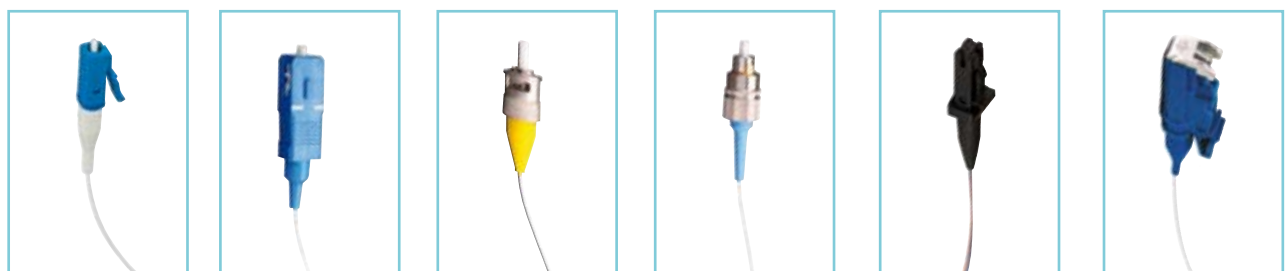
	LC		SC		ST		FC		MTRJ		E2000	
	09/125µm	Length	09/125µm	Length	09/125µm	Length	09/125µm	Length	09/125µm	Length	09/125µm	Length
OS1	LC09B1	1M	SC09B1	1M	ST09B1	1M	FC09B1	1M	MTRJ09B1	1M	E209B1	1M
	LC09B2	2M	SC09B2	2M	ST09B2	2M	FC09B2	2M	MTRJ09B2	2M	E209B2	2M
	LC09B3	3M	SC09B3	3M	ST09B3	3M	FC09B3	3M	MTRJ09B3	3M	E209B3	3M
	LC09B5	5M	SC09B5	5M	ST09B5	5M	FC09B5	5M	MTRJ09B5	5M	E209B5	5M
	09/125µm	Length	09/125µm	Length	09/125µm	Length	09/125µm	Length	-	-	09/125µm	Length
OS1-APC	LCA09B1	1M	SCA09B1	1M	STA9B1	1M	FCA09B1	1M	-	-	E2A09B1	1M
	LCA09B2	2M	SCA09B2	2M	STA9B2	2M	FCA09B2	2M	-	-	E2A09B2	2M
	LCA09B3	3M	SCA09B3	3M	STA9B3	3M	FCA09B3	3M	-	-	E2A09B3	3M
	LCA09B5	5M	SCA09B5	5M	STA9B5	5M	FCA09B5	5M	-	-	E2A09B5	5M

OPTICAL FIBRE ASSEMBLIES

Optical Fibre Assemblies

Patchcords:

To order optical patchcord the FibreFab part number is compiled as follows;

Connectors End 1 [1]	Connectors End 2 [1]	Type	Cable Configuration [2]	Cable Colour [3]	Length (m) [4]

E2000=E2
E2000APC=E2A
FC
FCA
LC
MTRJ
MU SC
SCA
ST

62 = OM1 62.5/125
50 = OM2 50/125
OM3 = OM3
09 = OS1 9/125
M4 = OM4 OM3+*
O2 = G.652D*
7A = G.657A*
7B = 6.657A/B*

S = Simplex
D = Duplex
F = Flat Duplex

YE = Yellow
OR = Orange
GR = Grey
PU = Purple
AQ = Aqua

1=1 meter
2=2 meter
3=3 meter
5=5 meter
10=10 meter
X=xx meter
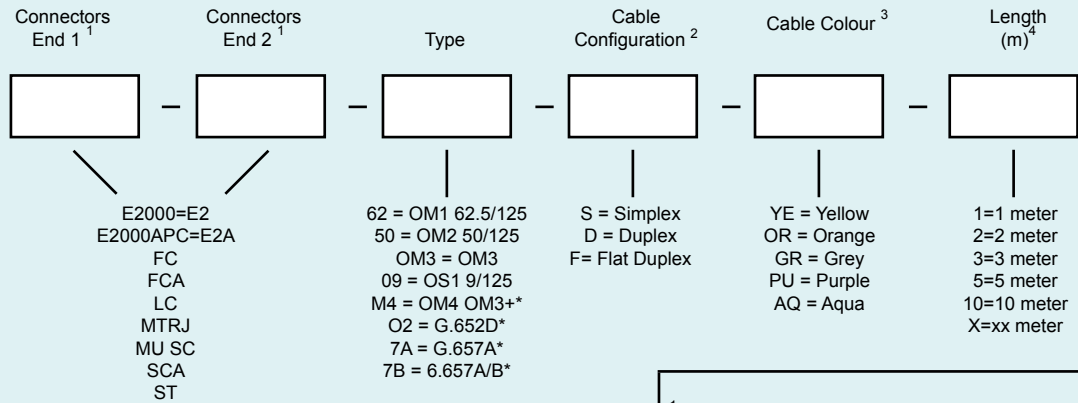
[1] Other connectors available upon request.
[2] MTRJ is available in MiniZip only.
[3] Other colour options available for singlemode and multimode cable.
[4] Other lengths available upon request.

*Note: these are new products, please call sales for more details

Pigtails:

To order pigtails the FibreFab part number is compiled as follows;

Connectors	Mode	B	Length	Options

E2000=E2
E2000APC=E2A
FC
FCA
LC
MTRJ
MU SC
SCA
ST

62 = OM1 62.5/125
50 = OM2 50/125
OM3 = OM3
09 = OS1 9/125
M4 = OM4 OM3+*
O2 = G.652D*
7A = G.657A*
7B = 6.657A/B*

1 = 1 meter
1.5 = 1.5 meter
2 = 2 meter

EASY
(Standard)

*Note: these are new products, please call sales for more details

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Attenuated Patchcords

Optronics attenuated patchcords are used to attenuate the optical signal in a link. Attenuated patchcords can be installed in place of conventional patchcords to provide a constant level of attenuation with a return loss of >50 dB.

The attenuated patchcord can be used to replace the conventional cable assembly and attenuator combination. It is a compact, multi-purpose, passive device designed to operate at wavelengths of 1310 and 1550nm.

Attenuated patchcords can be provided with LC, SC, ST and FC connector styles as per customer requirements.

Optronics attenuated patchcords come to you from a world-class manufacturing facility backed by 20 years of experience in manufacturing passive and active fibre optic devices.

Features

► Provides the functions of attenuator and cable assembly, simultaneously

► Low back reflection

► 100% insertion loss testing

► Connector varieties available

► Conforms to the requirements of EIA/TIA standards

► Inexpensive and compact

Applications

► Telecommunication Networks

► CATV

► LAN and WAN

► Attenuation values available
01= 1dB, 02= 2dB, 03= 3dB, 04= 4dB, 05= 5dB
06= 6dB, 07= 7dB, 08= 8dB, 09= 9dB, 10= 10dB
15= 15dB, 20= 20dB

OPTICAL FIBRE ASSEMBLIES

Specific Optical Patchcords

Mode Conditioning Patchcords

Mode Conditioning Principle

OPTICAL FIBRE ASSEMBLIES
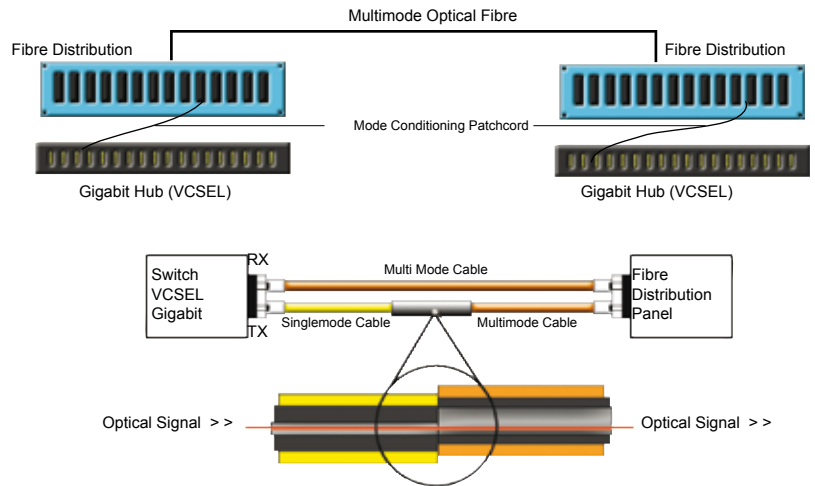
Multimode optical fibre links that use laser based transmitters may be limited in bandwidth to values less than half those of the over-filled launch bandwidth.

Mode conditioning patchcords are designed to allow use of VCSEL laser transmitters in 62.5/125 (OM1) or 50/125 (OM2) multimode fibre optic cabling systems. These assemblies allow long wavelength 1300nm signals to be transmitted, over good quality fibre, at distances of up to 550m.

VCSEL devices used in gigabit ethernet applications result in a singlemode launch condition, and operate over both singlemode and multimode fibre. Differential Mode Delay (DMD) occurs when the transmitter device launches a singlemode laser signal into the centre of the multimode fibre, resulting in the transmission of multiple signals. Such signals confuse the receiver, with resultant limitations on the operating bandwidth and especially the drive distances of gigabit ethernet.

The 62.5/125 fibre will typically only allow a distance of 220-270m for gigabit ethernet, using lower cost lasers operating at the 850nm range. Longer distance requirements can be met by the use of 1300nm electronics in conjunction with a mode conditioning launch lead. The Optronics mode conditioning cable assembly, eliminates differential mode delay by moving the singlemode launch to an offset position, increasing the mode fill and reducing DMD.

Description	Multimode	
	62.5/125	**50/125**
Operating Wavelength	1300nm	
Maximum Insertion Loss:	0.5dB	
Coupled Power Ratio (CPR):	28 to 40dB	12 to 20dB
Back Reflection:	S/M Channel: -30dB	
	M/M Channel: -20dB	
Connector Finish	PC or APC	
Sheath Colour	Orange (yellow for SM leg)	

Connectors available

Types: FC, FC/APC, ST, SC, SC/APC, LC, MTRJ, MU
Length: 2m ± 10mm (Other lengths available to order)

Product Packaging
Each patchcord is individually packaged and identified for traceability, a test certificate is supplied for each assembly.

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Pre-Terminated Assemblies

Your network is the heartbeat of your organisation. Cabling infrastructure now has to be designed to deliver mission-critical applications to a converged network that demands reliability, speed and availability. A factory terminated fibre optic cabling solution is a simple, scalable, and reliable method of deployment. Installation time, compared to traditional copper cabling systems, can be greatly reduced.

A pre-terminated optical cable can offer speed and flexibility when it comes to adding to your existing network. We provide pre-terminated cables to suit a variety of installations, whether it is inside a building, across a campus or as a link between equipment in a data centre or comms room. We have the solution!

Our pre-terminated cable solutions are manufactured in our quality controlled manufacturing facility, using state-of-the-art processes and equipment. We also understand that in order to produce a high quality finished product you need high quality components; that's why we only use cable and connectors sourced from our own specialist manufacturers. This means we can guarantee <0.3dB insertion loss on all of our pre-terms.

Pre-terms of a cable length less than 50 metres are supplied in a protective bag.

Pre-terms of a cable length in excess of 50 metres are supplied on a drum.

Protection sleeve and pulling eye can be changed on request.

Pre-Terminated Assemblies

OPTICAL
FIBRE
ASSEMBLIES

Standard Consrtuction: Staggered   Special Construction : Fan-Out
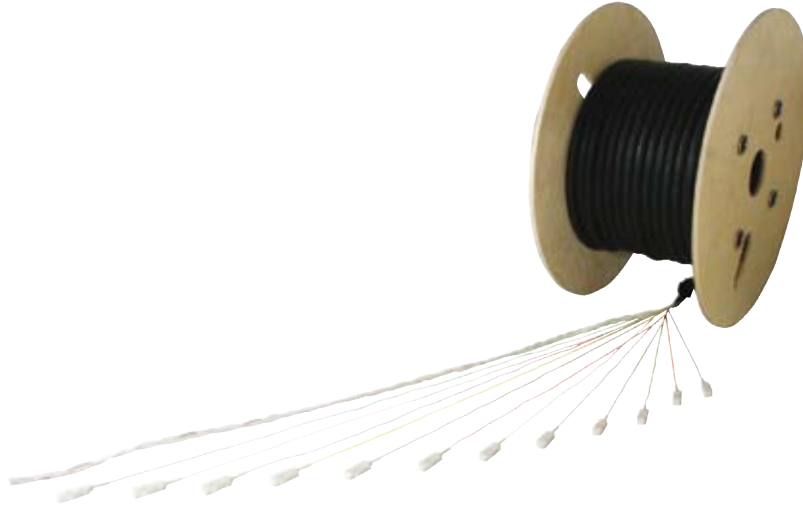
Standard configuration:

► Pre-terminated assemblies are supplied as standard with protection sleeve, pulling eye and staggered distribution.
► Alternative labelling options are available. Please contact us with your requirements.
► Assemblies are identified by a serial number.

Ordering Information

	Connector END A	Distribution END A	Fibre Count	Fibre Type	Cable Type	Cable Length (Gland to Gland)	Distribution END B	Connector END B
PRE								
	LC	Staggered	4	09 = OS1	TB = Tight Bufferd	Length (Meters)	Staggered	LC
	LC/A	Fan-Out	6	62 = OM1	LT = Loose Tube		Fan-Out	LC/A
	E2000	Open End	8	50 = OM2	BO = Break Out		Open End	E2000
	E2/A		12	OM3 = OM3	STA = Steel Tape Armoured			E2/A
	FC		16					FC
	FC/A		24					FC/A
	ST							ST
	SC							SC
	SC/A							SC/A

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FirstLight PreTerm Options

Option 1. First Light Basic
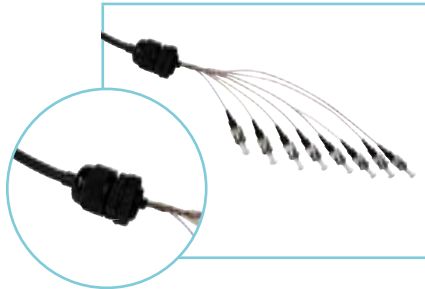
Low cost for short runs. Can be used with optional pulling sock (sold seperately).

Internal Use — Short Lengths — Patchpanel to Patchpanel — UPTO 24 Fibres — UPTO 48 Fibres

Option 2. First Light Classic

Ideal application for inter connection between comms cabinets, where pulling protection is required to aid installation.

Internal Use — External Use — Patchpanel to Patchpanel — Pulling Eye — Pulling Protection — UPTO 24 Fibres — UPTO 48 Fibres

Option 3. First Light Breakout
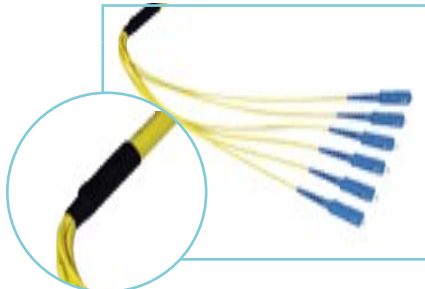
Suited to applications that inter connect between patch panels and active equipment and where a ruggedised tail is required.

Internal Use — Short Lengths — Patchpanel to Patchpanel — Ruggedised — Rapid Deployment — 4-24 Fibres
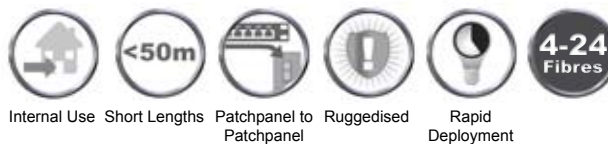
Option 4. First Light Prime
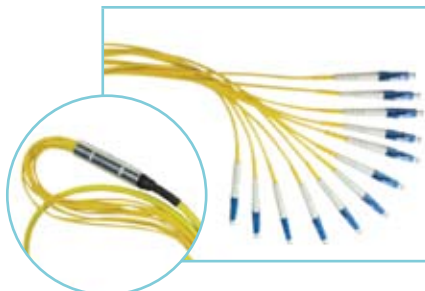
Suited to internal and external applications and utilising a new design of cable and breakout module we are able to offer up to 1000N of tensile strength in addition to superior crush resistance and optical performance.

Internal Use — External Use — Patchpanel to switchl — Lightweight — 1000N Pulling Strength — Rapid Deployment — UPTO 12 Fibres — UPTO 24 Fibres

Option 5. First Light High Density

Utilising MTP technology, a complete solution for rapid deployment of Data Centre high density cabling systems.

Internal Use — Short Lengths — Rapid Deployment — HIGH DENSITY — 12-72 Fibres — 12-144 Fibres

OPTICAL FIBRE ASSEMBLIES

MTP®/MPO Optical Fibre System

MTP ®/MPO Optical Fibre system

MTP®/MPO Sliding Tray Patch Panels ST, LC, SC, MT-RJ & FC
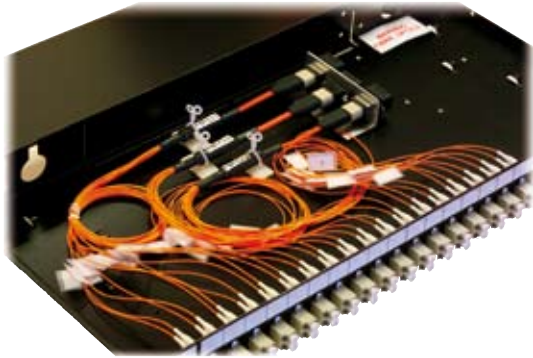
Sliding Tray Patch Panels

MTP ®/MPO Assembly

Trunk

Modular Sliding Tray Patch Panels

Modular Patch Panels and modules

OPTICAL FIBRE ASSEMBLIES

The MTP®/MPO cabling solution from FibreFab is the answer to cabling the data centre environment. Utilising the high-performance MTP®/MPO style connectivity, FibreFab is able to design, manufacture and test a full range of MTP®/MPO assemblies. The MTP®/MPO style plugs have introduced a new benchmark for high quality and performance into the MPO market. The connector complies with both IEC-61754-7 and TIA/EIA-604-5 standards, is fully backward compatible with previous versions of the MPO connector, and it features these unique enhancements:

•   A floating ferrule allowing greater mechanical durability during mating and preventing damage caused by side load.
•   Elliptical guide pin tips providing greater durability by decreasing guide pin hole wear and tear.
•   Easy identification of fibre type with simple colour code.

These features deliver a higher level of reliability and a reduction of potential downtime.

3 Step Implementation

1. **The system design**
   The system needs to be designed with consideration to the number of fibres required and the type of connectors used on the active equipment. Where SC connectors are required, the maximum number of connections using the modular patch panel is 36, but with LC and MTRJ connectors the same panel can support 72 fibres. Where lower patch panel density is acceptable, the standard sliding tray patch panel can be used.

2. **The site survey**
   The installer is required to accurately measure the route in which the MTP**®**/MPO assembly will be installed, allowing an extra 10% for cable slack, and 3 metres each end for termination and management of the cables within the communication cabinet.

3. **The installation**
   The MTP**®**/MPO assembly is laid into position and loosely secured to the cable tray or supports with no bends smaller than 5cm radius. When pulling any optical fibre assembly into a building, the maximum pulling force MUST be adhered to, excess force will damage the cable and the fibres within. Carefully loop any spare cable under or within the communications cabinet allowing for a stress free run to the rear of the patch panel. Dust is the enemy of all optical fibre systems, so the dust caps MUST be left on the MTP**®**/MPO assemblies until final connection. When the system is fully installed remove the dust caps and immediately connect to the MTP**®**/MPO fan-out or module.

MTP is a registered EC trademark of US Conec Ltd

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Optical Fibre Assemblies

MTP®/MPO Optical Fibre system

MTP ®/MPO Module

Fan out MTP ®/MPO
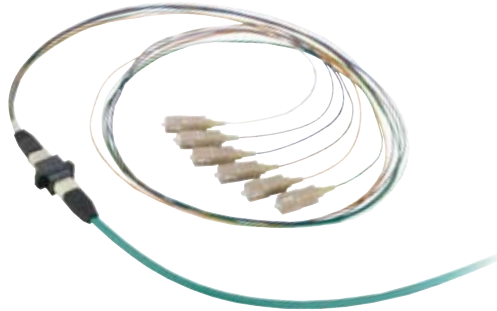
MTP ®/MPO Ruggedised Fan out
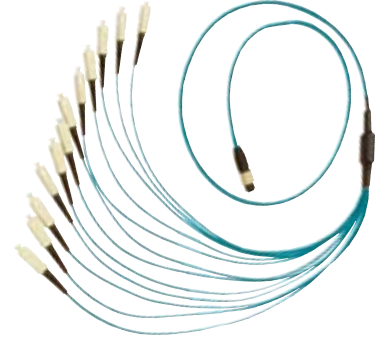
MTP®/MPO Cable Assemblies

MTP®/MPO cable assemblies pre-terminated for use in building cabling. Simply install the pre-terminated assembly within the building and connect to the rear of an MTP®/MPO patch panel or ruggedised fan-out.
12 way 50/125 OM3:-
25Mtr. Part Number: MTPFMTPFOM31225
50Mtr. Part Number: MTPFMTPFOM31250
75Mtr. Part Number: MTPFMTPFOM31275
100Mtr. Part Number: MTPFMTPFOM31275
150Mtr. Part Number: MTPFMTPFOM312150

MTP®/MPO Module

MTP®/MPO 12 ports SC module
Black module pre-wired for 12 SC OM3 connections. Designed to fit modular sliding tray panel.
Ref : MTPM12SCOM3CASS

MTP®/MPO 24 port LC module
Black module pre-wired for 24 LC OM3 connections via two MTP®/MPO connections. Designed to fit modular sliding tray panel.
Part Number : MTPM24LCOM3CASS

MTP®/MPO Ruggedised fan-out

MTP®/MPO fan-out designed with special rugged cable to withstand direct connections within the communications cabinet.
Available in SC, ST, FC, LC & MTRJ terminations.
12 way MTP®/MPO to 12 SC, 50/125 OM3
Part Number: MTPM12SCOM3DF1A

12 way MTP®/MPO to 12 LC, 50/125 OM3
Part Number: MTPM12LCOM3DF1A

MTP®/MPO Patch Panels; ST, LC, SC, MT-RJ & FC

MTP®/MPO Patch panels; ST, LC, SC, MT-RJ & FC
Patch panel pre-loaded for MTP®/MPO

Black sliding tray patch panel pre-loaded for 24 ST, SC & FC and 48 LC or MTRJ connections to MTP®/MPO systems.

Modular Patch Panel

19" 1U Black sliding tray patch panel for 3 modules.
Supports up to 36 SC connections with 3 MTP®/MPO links or 72 MTRJ / LC connections with 6 MTP®/MPO links.

Part Number : S13XXX00

MTP®/MPO fan-out

MTP®/MPO fan-out for use inside patch panels and wall boxes.
Available in SC, ST, FC, LC & MTRJ terminations.
12 way MTP®/MPO to 12 SC, 50/125, OM3
Part No.: MTPM12SCOM3SF1

12 way MTP®/MPO to 12 LC, 50/125, OM3
Part No.: MTPM12LCOM3SF1

MTP®/MPO Optical Fibre system

Ordering Information

To order MTP®/MPO assemblies the FibreFab part number is compiled as follows:
Items shown on the previous pages are standard items and will be kept ex-stock. Other variations can be ordered to suit your requirements.

MTP®/MPO Pre-Terminated Assemblies
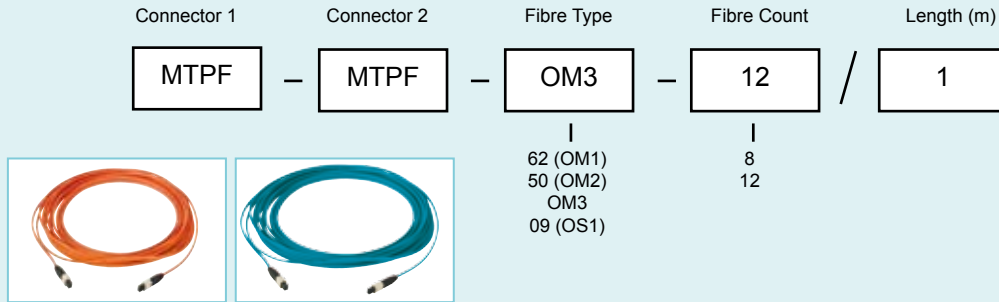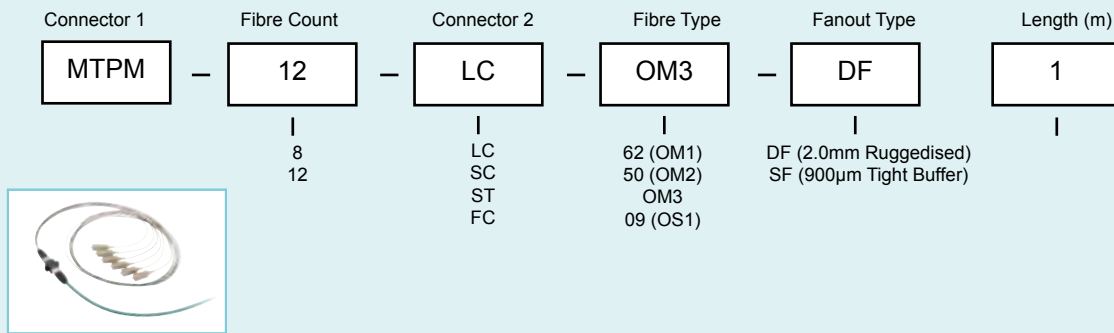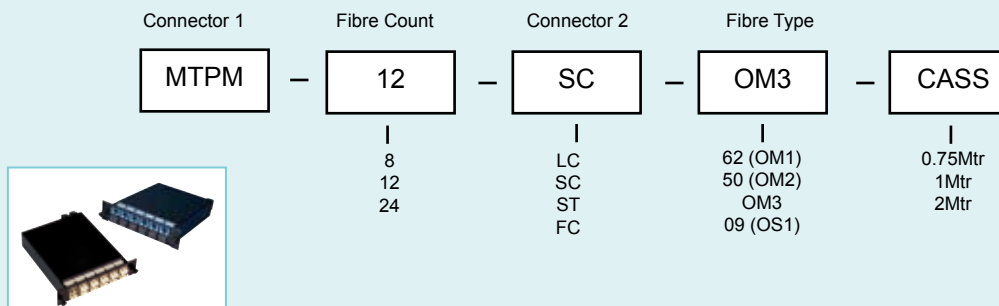
Connector 1	Connector 2	Fibre Type	Fibre Count	Length (m)
MTPF	– MTPF	– OM3	– 12	/ 1
		62 (OM1)	8	
		50 (OM2)	12	
		OM3		
		09 (OS1)		

Fan-out MTP®/MPO

Connector 1	Fibre Count	Connector 2	Fibre Type	Fanout Type	Length (m)
MTPM	– 12	– LC	– OM3	– DF	1
	8	LC	62 (OM1)	DF (2.0mm Ruggedised)	
	12	SC	50 (OM2)	SF (900μm Tight Buffer)	
		ST	OM3		
		FC	09 (OS1)		

MTP®/MPO Modules

Connector 1	Fibre Count	Connector 2	Fibre Type	
MTPM	– 12	– SC	– OM3	– CASS
	8	LC	62 (OM1)	0.75Mtr
	12	SC	50 (OM2)	1Mtr
	24	ST	OM3	2Mtr
		FC	09 (OS1)	

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Optical Fibre Components

► **Connectors**
► **Adapters**
► **Attenuators**

SC connector

The SC connector comprises a polymer body with a ceramic ferrule/spring/crimp barrel assembly plus a crimp-over sleeve and rubber boot. These connectors are suitable for 900µm, 2mm and 2.8mm cables. The connector is precision made to demanding specifications.

The combination of a ceramic ferrule with a precision polymer housing provides consistent, long-term mechanical and optical performance.

The SC connector is a push-pull type connector that gives an audible click when mated into its adapter. The SC connector can also be tuned in 4 positions to provide the lowest insertion loss.

Optical Performance

Singlemode

Insertion loss:	Max. 0.3dB	Typical 0.2dB
Return Loss:	UPC > 50dB	Typical 55dB
	APC > 60dB	Typical 65dB

Multimode

Insertion loss:	Max. 0.3dB	Typical 0.2dB

(IEC 61300 - 3 - 4)

Intermateability
Optically and mechanically compatible with all equivalent connectors.

(Compliant with IEC 61754-4)

Mechanical
Ferrule ID / tolerance:
Singlemode - 126 +1/-0mm
Multimode - 126 -0/+2µm
Ferrule Diameter : 2.5 ± 0.001mm (MM) / 2.4990 ± 0.0005 (SM)
Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule.
R 10 to 25mm

Tensile Strength Cable retention: >50N
(2 & 3mm boot versions only)

Temperature Cycle:
(61300-2-18)
-40 to +75°C, 40 cycles
<0.2dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.2dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Product Packaging:
Standard packaging:
100pcs Bulk packed
(Special packaging available by request)

Colours:
2 and 2.8mm : Blue, Red, Black, Green

Termination Procedures:
Cable pre-termination, polishing and crimping on epoxy glue.
simplex & duplex versions available
(Duplex version uses two simplex connectors with a clip to be coupled as required)

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2dB Change

Mating Durability:
(61300-2-2)
500 mating cycles
Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

Back Shell:
Connector versions available for:
3mm Cable
2mm Cable
900µm Buffered Fibre

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Connectors

SC Multimode connectors

SC MULTIMODE SIMPLEX
3mm Cable
Beige Body
Black, Beige or Red Boots
Part No. SCMM3SMPX

SC MULTIMODE DUPLEX
3mm Cable
Beige Body
Black, Beige or Red Boots
Part No. SCMM3DPX

SC MULTIMODE PIGTAIL
900µm Cable
Beige Body
Black, Beige or Red Boots
Part No. SCMM9SMPX

SC Singlemode connectors

SC SINGLEMODE SIMPLEX
3mm Cable
Blue Body
Blue Boots
Part No. SCSM3SMPX
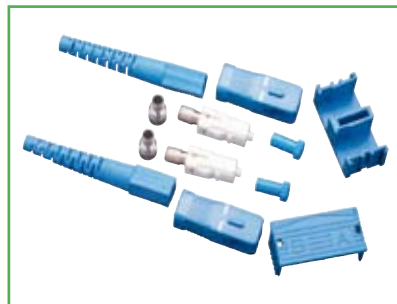
SC SINGLEMODE DUPLEX
3mm Cable
Blue Body
Blue Boots
Part No. SCSM3DPX

SC SINGLEMODE PIGTAIL
900µm Cable
Blue Body
Blue Boots
Part No. SCMM9SMPX

APC Singlemode connectors (Angle Polished Connector)

SC SINGLEMODE APC SIMPLEX
3mm Cable
Green Body
Green Boots
Part No. SCAPC3MM

SC SINGLEMODE APC DUPLEX
3mm Cable
Green Body
Green Boots
Part No. SCAPC3DPX

SC SINGLEMODE APC PIGTAIL
900µm Cable
Green Body
Green Boots
Part No. SCAPC.9MM

OPTICAL FIBRE COMPONENTS

ST Connector

The ST connector has been the main stay of optical fibre connectors for many years. It can be found in almost every communications room worldwide, but is used mainly in data communications systems. The simple to use bayonet locking mechanism reduces the risks of accidental disconnection of fibre connections.

The Optronics ST optical fibre connector is comprised of a nickel plated brass body and a ceramic ferrule/spring/crimp barrel assembly, plus a crimp-over sleeve with rubber boot. These connectors are suitable for 900µm, 2mm and 3mm cables. The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule with precision metal housing provides consistent, long-term mechanical and optical performance.

Optical Performance

Singlemode

Insertion Loss:	Max. 0.3dB	Typical 0.2dB
Return Loss:	UPC > 50dB	Typical 55dB

Multimode

Insertion loss:	Max. 0.3dB	Typical 0.2dB

Intermateability
Optically and mechanically compatible with all equivalent connectors.

(Compliant with IEC 61754-2)

Mechanical
Ferrule ID / tolerance:
SM - 126 +1/-0mm
MM - 126 -0/ +2µm
Ferrule Diameter: 2.5 ± 0.001mm (MM) / 2.4990 ± 0.0005 (SM)
Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule.
R 10 to 25mm

Tensile Strength Cable retention: >50N (2 & 3mm boot versions only)

Temperature Cycling:
(61300-2-18)
-40º to +85ºC, 40 cycles
< 0.2 dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.2dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2 dB Change

Mating Durability:
500 mating cycles
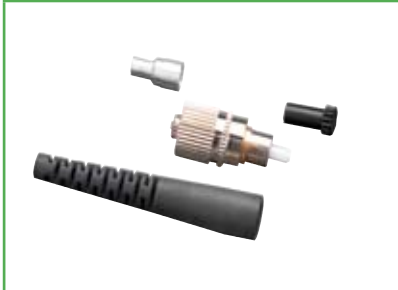Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

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OPTICAL FIBRE COMPONENTS

Connectors

ST Multimode connectors
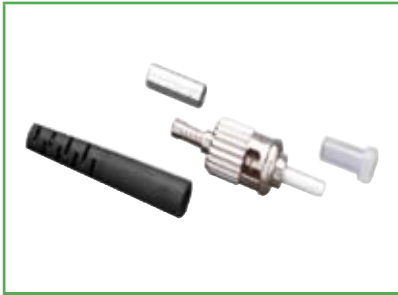
ST MULTIMODE SIMPLEX
3mm Cable
Black Boot
Part No. STMM3BLK
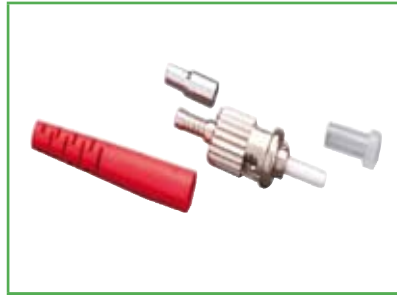
ST MULTIMODE DUPLEX
3mm Cable
Red Boot
Part No. STMM3RED

ST MULTIMODE PIGTAIL
3mm Cable
Black Boot
Part No. STMM9

ST Singlemode connectors
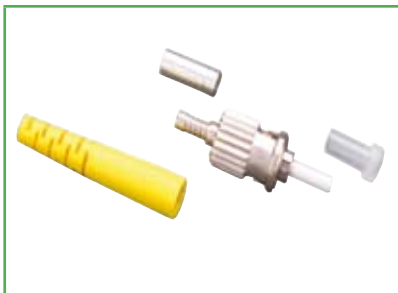
ST SINGLEMODE SIMPLEX
3mm Cable
Black Boot
Part No. STSM3YEL
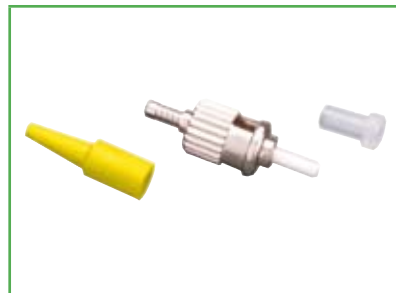
ST SINGLEMODE PIGTAIL
900µm Cable
Yellow Boot
Part No. STSM9

OPTICAL FIBRE COMPONENTS

Connectors

FC connector

OPTICAL
FIBRE
COMPONENTS

The FC connector is used extensively in the telecommunications market, where long singlemode optical fibre cables can run upwards of 50km. In these extreme situations, the connector needs to have very low losses and accurate geometry.

The Optronics FC connector has a screw thread fitting into the adapter to provide a secure connection. The FC connector is comprised of a nickel plated brass body and a ceramic ferrule/spring/crimp barrel assembly plus a crimp-over sleeve and rubber boot. These connectors are suitable for 900µm, 2mm and 3mm cable. The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule with precision nickel plated brass housing provides consistent, long-term mechanical and optical performance.

Optical Performance

Singlemode

Insertion loss:	Max. 0.3dB	Typical 0.2dB
Return Loss:	UPC > 50dB	Typical 55dB
	APC > 60dB	Typical 65dB

Multimode

Insertion loss:	Max. 0.3dB	Typical 0.2dB

Intermateability
Optically and mechanically compatible with all equivalent connectors.
(Compliant with IEC 61754-13)

Mechanical
Ferrule ID / tolerance:
SM - 126+1/-0mm
MM - 126 -0/+2µm
Ferrule Diameter:2.5 ± 0.001mm (MM) / 2.4990 ± 0.0005 (SM)
Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule.
R 10 to 25mm

Tensile Strength Cable retention: >50N
(2 & 3mm boot versions only)

Temperature Cycling:
(61300-2-18)
-40 to +75°C, 40 cycles
< 0.2dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.2dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2dB Change

Mating Durability:
(61300-2-2)
500 mating cycles
Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

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Connectors

FC connectors

FC MULTIMODE SIMPLEX
3mm Cable
Black Boot
Part No. **FCMM3**
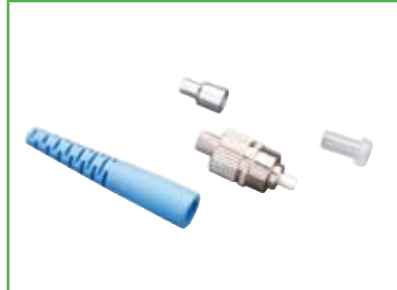
FC SINGLEMODE SIMPLEX
3mm Cable
Blue Boot
Part No. **FCSM3**
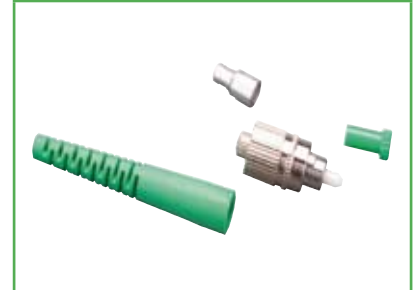
FC SINGLEMODE APC SIMPLEX
3mm Cable
Green Boot
Part No. **FCAPC3MM**

FC MULTIMODE PIGTAIL
900µm Cable
Black Boot
Part No. **FCMM9**

FC SINGLEMODE PIGTAIL
900µm Cable
Blue Boot
Part No. **FCSM9**
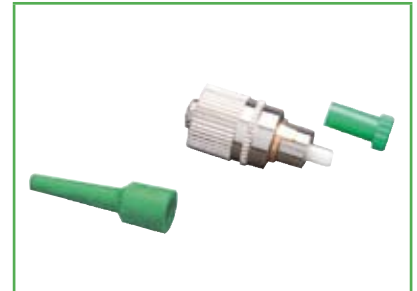
FC SINGLEMODE APC PIGTAIL
900µm Cable
Green Boot
Part No. **FCAPC.9MM**

OPTICAL FIBRE COMPONENTS

Connectors

LC Connectors

The LC connector was the first small form factor (SFF) connector on the market. The LC features a latched lever mechanism to provide secure mating into the adapter. The LC has been designed to meet the need for a small optical fibre connector that uses half the space of the SC connector. The duplex version, which is two simplex connectors with a clip, plugs into an adapter with the same footprint as the SC connector.

The Optronics LC optical fibre comprises of a polymer body and a ceramic ferrule/spring/crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for 900µm, 2mm and 3mm cables. The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule with polymer housing provides consistent, long-term mechanical and optical performance. The LC connector is available in singlemode UPC and APC versions as well as multimode.

Optical Performance

Singlemode

Insertion loss: Max. 0.3dB   Typical 0.2dB

Return Loss: UPC > 50dB   Typical 55dB
APC > 60dB   Typical 65dB

Multimode

Insertion Loss: Max. 0.3dB   Typical 0.2dB

Intermateability:
Optically and mechanically compatible with all equivalent connectors.

(Compliant with IEC 61754-20)

Mechanical
Capillary diameter tolerance:125 -0/ µm
Ferrule Diameter:1.25 ± 0.001mm (MM) / 2.4990 ± 0.0005 (SM)

Temperature Cycling:
(61300-2-18)
-40 to +75°C, 40 cycles
< 0.2dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.4dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2dB Change

Mating Durability:
(61300-2-2)
500 mating cycles
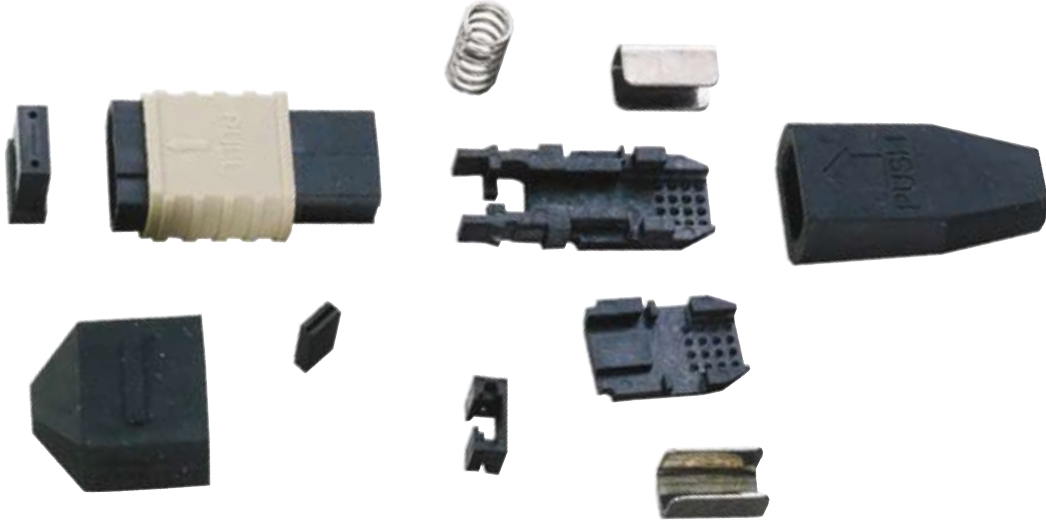Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

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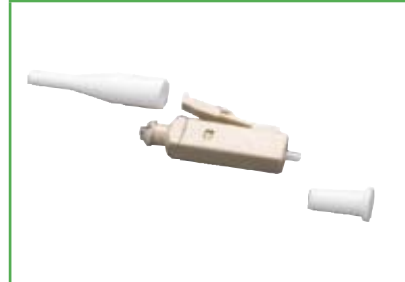
Connectors

LC Connectors

LC MULTIMODE SIMPLEX
2mm Cable
Beige Body
White Boots
Part No. **LCMM2**
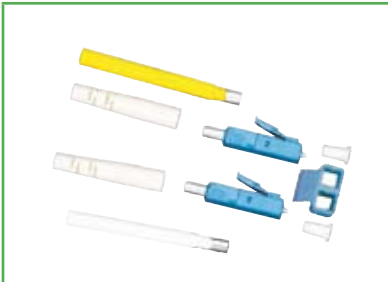
LC MULTIMODE DUPLEX
2mm Cable
Beige Body
White Boots
Part No. **LCMM2DPX**
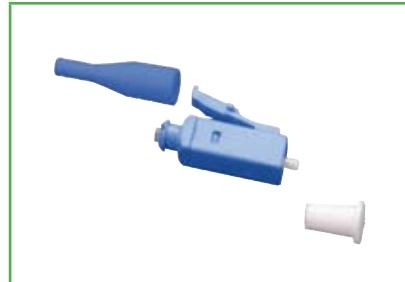
LC SINGLEMODE PIGTAIL
900µm Cable
Beige Body
White Boots
Part No. **LCMM9**

LC SINGLEMODE SIMPLEX
2mm Cable
Blue Body
Blue Boots
Part No. **LCSM2**

LC SINGLEMODE DUPLEX
2mm Cable
Blue Body
White Boots
Part No. **LCSM2DPX**

LC SINGLEMODE PIGTAIL
900µm Cable
Blue Body
Blue Boots
Part No. **LCSM9**

OPTICAL FIBRE COMPONENTS

MTRJ Connector

The MTRJ connector is a development of the now legendary MT ferrule. This amazing technology is at the heart of many state-of-the-art connectors. The MT ferrule in its various designs, has the ability to connect anything from 2 fibres in the MTRJ connector, to 72 fibres in the latest versions of the MPO connector.

The Optronics version of the MTRJ, is capable of terminating any 125µm fibre. The flexibility of the connector allows it to be used in short run local area networks in addition to longer haul cabling using singlemode fibre.

It is designed to terminate two fibres within a single connector, reducing the risk of operator error when inter-connecting equipment and distribution panels. The MTRJ has been deliberately designed to look and feel like the industry standard copper connector.

The high-density MTRJ connector allows the termination of high fibre count backbone cables into smaller distribution panels.

Description

The MTRJ connector is a high-density small form factor (SFF) connector, designed to reduce the space required in the distribution cabinets.

FibreFab has a full range of tools and products to assist you with the termination of the MTRJ connector. For those who prefer to purchase pre-terminated pigtails, FibreFab can supply all your needs.

For information on the full range FibreFab MTRJ products and tooling please contact us for a data sheet.

Specifications

Fibre Type:
9/125 µm singlemode
50/125 µm multimode
62.5/125 µm multimode

Fibre Count available: 2

Insertion Loss (With master plug)
Standard Loss: < 0.5 dB
Low Loss: < 0.35 dB

Return Loss: =45dB (SM only)

Cable Type: Mini Zip

Adapter Bulkhead:
Single connector-Duplex

Intermateability:
Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-18.

Product Packaging
Connector in kit form, packaged in 100pcs

Temperature Cycling:
(61300-2-18)
-40 to +75°C, 40 cycles
< 0.2dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.2dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2dB Change

Mating Durability:
(61300-2-2)
500 mating cycles
Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

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Connectors

MTP®/MPO Connector

The MTP®/MPO connector is the latest development of the now legendary MT ferrule. The MT ferrule technology is at the heart of many state of the art connectors. The FibreFab range of Optronics MTP®/MPO connectors are capable of connecting between 4 and 12 fibres. The next generation of this ferrule will be used to terminate up to 72 fibres in a single connector. This allows totally new designs of fibre distribution, using densities unheard of before now.

The Optronics version of this interface is the market leader in this new and exciting field of optical fibre termination. Manufactured by FibreFab in our ISO 9001 approved facilities, the MTP®/MPO connector gives the user total flexibility in the design of their backbone, reducing costs and keeping distribution space to a minimum.

As the use of pre-terminated fibre cables grows, the MTP®/MPO gives the perfect solution to the ever-present problem of protecting the terminated fibres. The small size of the MTP®/MPO allows pre-terminated fibre cable to be fed through the smallest holes, making the installation benefits of pre-terminated fibre even greater than before.

OPTICAL FIBRE COMPONENTS

Description

The high density MTP®/MPO connector allows 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. Using the MTP®/MPO connector on pre-terminated fibre solutions, allows you to prepare the distribution units in the comfort of your own workshop. This can be taken a step further by having the distribution cabinets built in a clean facility and only taken to site when the installation is due to go live. This saves time, reduces the possibility of damage to the fragile optical tails and limits the risk of dirt ingress into fibre couplers.

Features

▶ MT based ferrule that can support up to 12 fibres.

▶ Very high density connector.

▶ Reliable quality supported by more than 15 years of FibreFab experience.

Specifications

Fibre Type:
9/125 µm singlemode
50/125 µm multimode
62.5/125 µm multimode

Fibre Count available: 4, 8, 12

Polishing: Angled or Flat

Insertion Loss (With master plug)
Standard Loss: <0.75dB
Low Loss: <0.35dB

Return Loss: >55dB (SM only)

Cable Type: Ribbon Fibre, Ribbon Cord, Microcore

Adapter Bulkhead: Simplex

Intermateability
Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-7.

Product Packaging
Connector in kit form, packaged in 100pcs

Temperature Cycling:
(61300-2-18)
-40 to +75°C, 40 cycles
=0.2dB Change

High Temperature:
(61300-2-18)
70°C for 96 hours
< 0.2dB Change

Damp Heat:
(61300-2-19)
40°C at 93% RH, 96 hours
< 0.2dB Change

Vibration (Mated Pair):
(61300-2-1)
10-55 Hz, 1.5mm P to P
< 0.2dB Change

Mating Durability:
(61300-2-2)
500 mating cycles
Clean every 25
< 0.2 dB Change

Operating Temperature:
-40°C to +85°C

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Connectors

MTP® Technology

Trunk Cable
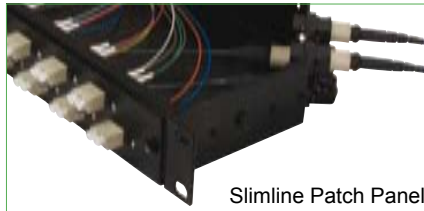
Slimline Patch Panel

Modular Patch Panel

Patch Leads

Connector

Module

Key Features
Installation is simple and fast.
MTP®/MPO connectors are robust.
Connectors click into their adaptors and are reverse polarity protected.
Easy to use cable management solutions.

High Density
72 fibres per 1U of space.
12 fibres per connector.
Less cable yields more space in cabinets and cable raceways, giving better airflow.
Up to 15,000 fibres per rack.

Reliabilty
Cables terminated and factory tested.
State-of-the-art termination processes.
Quality controlled at every step.
Immune to EMI/RFI.

Low Cost of Ownership
Reduces labour cost and saves time on installation and testing.
Reduces cost of consumables and space requirements for cabinets.

Scalabliity
Future proof network infrastructure, to protect your investment.
Supports 10/100-1Gbps ethernet and fibre channel standards.
Singlemode capability beyond 10Gbps.

Simplicity
Modular systems designed for the fastest adds, moves and changes.
Designed for simple and easy handling, installing and testing.

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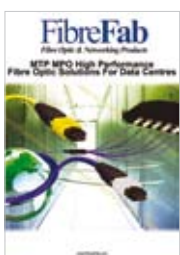
To view our full range of products download our
MTP® /MPO High Performance Fibre Optic Solutions for Data Centres Catalogue now at www.FibreFab.com.

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OPTICAL FIBRE COMPONENTS

Connectors

Boots

90°C Angled Boots
Blue, Red, Black

SC 3mm Boot

FC 3mm Boot

FC 2mm Boot

LC 3mm Boot

SC/FC 900µm Boot

Angle 45º Boot

ST 3mm Boot Red & Black

ST 3mm Boot

ST 2mm Boot

ST 900µm Boot
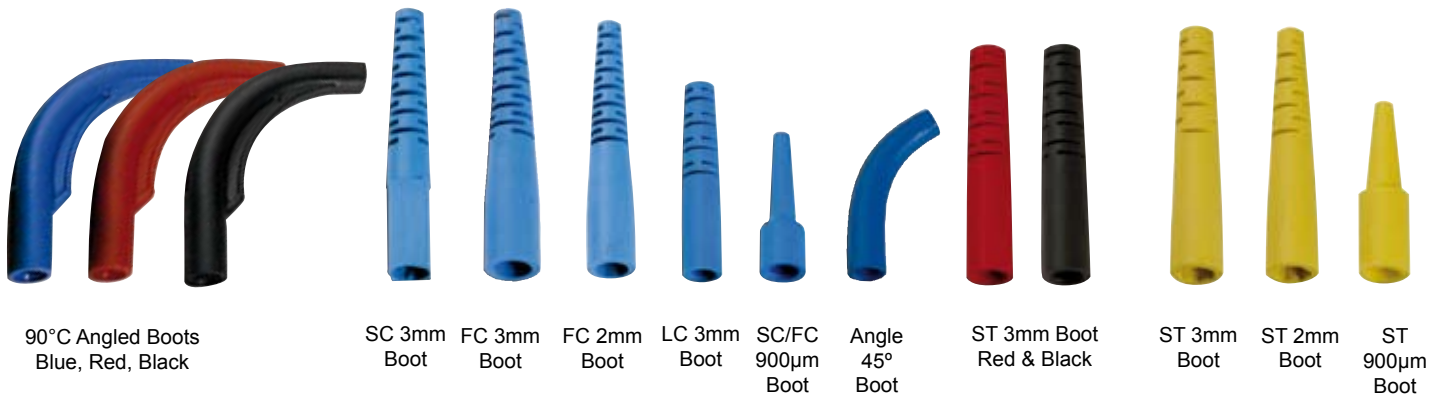
PART NUMBER	DESCRIPTION
LC3BLUEBOOT90	90°C Angled Boot Blue
LC3REDBOOT90	90°C Angled Boot Red
LC3BLACKBOOT90	90°C Angled Boot Black
SC3BLUEBOOT	SC 3mm Boot
FC3BLUEBOOT	FC 3mm Boot
FC2BLUEBOOT	FC 2mm Boot
LC3BLUEBOOT	LC 3mm Boot

PART NUMBER	DESCRIPTION
SC9BLUEBOOT	SC/FC 900µm Boot Blue
LC3BLUEBOOT45	45°C Angled Boot Blue
ST3REDBOOT	ST 3mm Boot Red
ST3BLACKBOOT	ST 3mm Boot Black
ST3YELLOWBOOT	ST 3mm Boot
ST2YELLOWBOOT	ST 2mm Boot
ST9YELLOWBOOT	ST 900µm Boot

Tubing Cross Section

Durable Outer Jacket

Kevlar Strength Member

Inner Tube
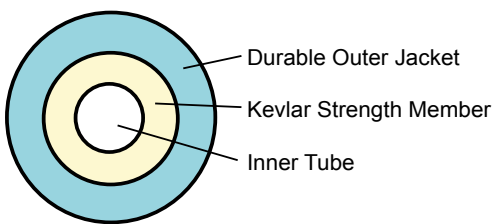
2 mm Fan-out Tubing

2mm Tubing
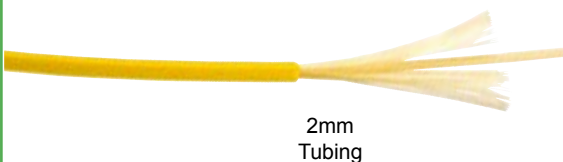
2.8MM FAN-OUT TUBING PART NUMBER	DESCRIPTION
TUBING2.8ORANGE	Orange Fan-out Tubing, 2.8mm Diameter
LC3REDBOOT90	Yellow Fan-out Tubing, 2.8mm Diameter

2.8 mm Fan-out Tubing

2.8mm Tubing
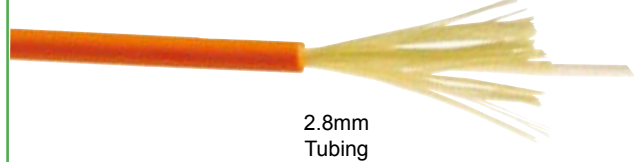
2MM FAN-OUT TUBING PART NUMBER	DESCRIPTION
TUBING2MMORANGE	Orange Fan-out Tubing, 2mm Diameter
LC3BLUEBOOT45	Yellow Fan-out Tubing, 2mm Diameter

OPTICAL FIBRE COMPONENTS

Optical Fibre Components

Adapters

An optical fibre adapter or uniter is used to mate two connectors together, usually mounted in a distribution panel or wall box.

The Optronics optical fibre adapters are precision made to ensure perfect alignment of connectors, reducing insertion loss. In most cases, it is the critical part of the system that aligns the ferrule part of the connectors keep the fibres in perfect alignment.

Phosphor bronze sleeves are for general use, while the ceramic versions are normally only used in singlemode low loss environments.

In the case of the MTRJ and MTP®/MPO the alignment is carried out by two small pins fitted to one of the connectors. The adapter is purely to support and lock the connectors together in the distribution panel or wall box.

Features

► Available as FC, SC, ST, LC, MTRJ, E2000 and MTP®/MPO
► Available in simplex, duplex, quad(LC) and hybrid versions
► High precision zirconia or standard phosphor bronze sleeves
► Low insertion loss
► High repeatability and stability.

Applications

► Fibre distribution
► LAN and WAN
► FTTx Applications
► CATV
► Testing instruments
► Telecommunications systems.

MTP is a registered EC trademark of US Conec Ltd

Adapters

SC Adapters
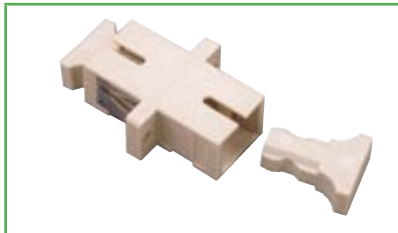
SC MULTIMODE SIMPLEX	LC MULTIMODE DUPLEX	SC SINGLEMODE SIMPLEX
Beige	Beige	Blue
Part No. SCUSPHBRBEIGE	Part No. SCUDPHBRBEIGE	Part No. SCUSZR02

SC SINGLEMODE DUPLEX	SC SINGLEMODE APC SIMPLEX	SC SINGLEMODE APC DUPLEX
Blue	Green	Green
Part No. SCUDZR02	Part No. SCAPCUSGREEN	Part No. SCAPCUDGREEN

MTRJ, MTP®/MPO & Hybrid Adapters

MTRJ SIMPLEX	SC-ST MULTIMODE DUPLEX	SC-FC SINGLEMODE SIMPLEX
Grey	Beige	Blue
Part No. MTRJUNITER	Part No. SCSTDUPHBRBEIGE*	Part No. FCSCSUZR02BLUE

*Metal Version also available
Part No. SCSTDUPHBRMETAL

MPO SIMPLEX	SC-ST SINGLEMODE DUPLEX
Black	Blue
Part No. MPOADAPTOR	Part No. SCSTDUZRO2
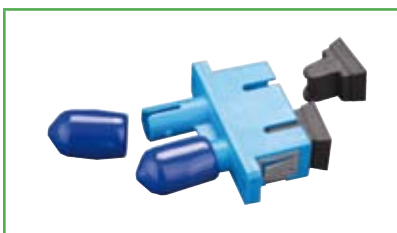
OPTICAL FIBRE COMPONENTS

Adapters

ST, FC, LC, E2000 Adapters

ST MULTIMODE SIMPLEX	ST SINGLEMODE SIMPLEX
Black	Yellow
Part No. STUPHBR	Part No. STUZR02

LC SINGLEMODE QUAD	LC MULTIMODE QUAD
Blue	Beige
Part No. LCQUADBLUE	Part No. LCQUADBEIGE

E2000 SINGLEMODE SIMPLEX	
Blue	APC - Green
Part No. E2UBLUE	Part No. E2APCUGREEN

LC MULTIMODE DUPLEX	LC SINGLEMODE DUPLEX
Beige	Blue
Part No. LCDPXBEIGE	Part No. LCDPXBLUE

FC MULTIMODE SIMPLEX	FC SINGLEMODE SIMPLEX	FC SINGLEMODE APC
Black	White	Green
Part No. FCUPHBR-D	Part No. FCUZR02-D	Part No. FCAPCUZR02-D

OPTICAL FIBRE COMPONENTS

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Attenuators

Optronics singlemode attenuators are used in communication systems to reduce optical power launched onto the photo detector. These high performance devices are designed to give accurate attenuation over a wide range of wavelengths. The plug type configuration allows them to be used directly on the end of a patchcord, which in turn can insert directly into an adapter.

Available in FC, SC, LC, ST and MU connector styles with PC or APC finish providing the ultra low return loss. Optronics attenuators comes to you from a world-class manufacturing facility backed by 20 years of experience in manufacturing passive and active fibre optic devices. Products coming out of this facility have found worldwide applications in computer networking, telecommunications and cable TV.

OPTICAL FIBRE COMPONENTS

Attenuators Spectrum (5dB attenuators)
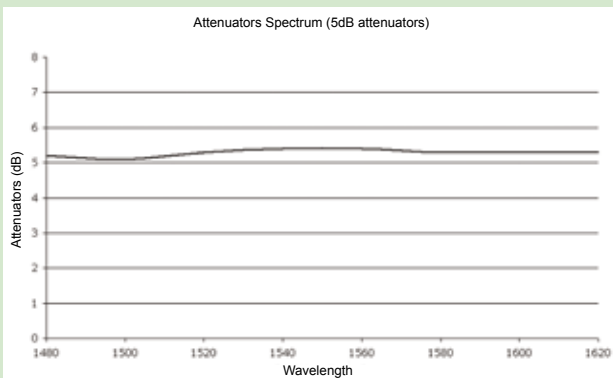
Features
- ► Plug-in type package
- ► Accurate attenuation
- ► Ultra low back reflection
- ► Broad wavelength band
- ► Flat response over all wavelengths
- ► Environmentally stable
- ► Quick delivery.

Applications
- ► Telecommunication networks
- ► Fibre optic sensors
- ► Test and Measurement
- ► CATV
- ► LAN and WAN
- ► FTTx
- ► Attenuation values available
  01= 1dB, 02= 2dB, 03= 3dB, 04= 4dB,
  05= 5dB, 06= 6dB, 07= 7dB, 08= 8dB,
  09= 9dB, 10= 10dB, 15= 15dB, 20= 20dB.

Attenuators

Description

Available range of attenuation	1 to 30dB with 1dB increments
Operating wavelength	1310 and 1550nm (or single wavelength)
Operating band pass	Dual Window 1310 and 1550nm (±25nm)
Attenuators = 5dB	± 0.5 dB
Attenuators 6 to 30dB	± 10% of attenuation
Reflectance	UPC = 55dB APC = 60dB
International Standard	Telcordia GR-910-CORE

The Optronics optical attenuators are manufactured using the best quality components.

Dimensions:
FC — 10mm (OD) x 30mm (L)
SC — 35mm (L) x 12.7mm (W) x 9.5mm (D)
LC— 33mm (L) x 6mm (W) x 10mm (D)

Product Packaging:
Each attenuator is packaged individually.

Ordering Information

FA — ☐ — ☐ — ☐

SC	S = Singlemode	01= 1dB
SCA	M = Multimode	02= 2dB
FC		03= 3dB
FCA		04= 4dB
LC		05= 5dB
MU		06= 6dB
LCA		
ST		Other versions available to special order
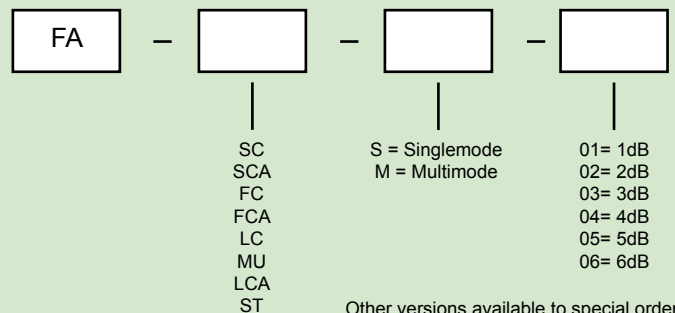
Fibre Optic Cable

► **Secondary Coated Fibre**
► **Fibre Optic Patch Cables**
► **Tight Buffered Cables**
► **Breakout Fibre Optic Cable**
► **Loose Tube Fibre Optic Cables**
► **Aerial Cables**
► **Fibre Optic Cable for Telecommunication**

Secondary Coated Fibre

Secondary Coated Fibre - Ideal for Pigtails

Optronics secondary coated 900µm fibre cables are ideal for use within splice trays or in other protected environments. These fibres are available in either standard or easy-strip formats and in twelve different colours for easy identification.

Technical Specifications

DESCRIPTION		1-CORE
Outer diameter	mm	0.9
Weight	kg/km	0.9
Max. Load (installation)	N	6
Max. Load (installed)	N	3
Min. Bend Radius (installation)		30mm
Min. Bend Radius (installed)		30mm
Temperature Range	°C	-20~+70

Part Number Generator

FIBRE TYPE	COLOUR	STRIP OPTION
OM1 = OM1B OM2 = OM2B OS1 = OS1B	RD = RED GN = GREEN BL = BLUE OR = ORANGE BR = BROWN GY = GREY YE = YELLOW PK = PINK WH = WHITE BK = BLACK AQ = AQUA PU = PURPLE	-C = TIGHT BUFFERED EASY-C = EASY STRIP

*OM3 also available on application

Example:

OM1B	PU	EASY - C

(OM1 Purple 1-Core Easy Strip)

900µm Buffered Pigtail Fibre

900µm OM1 62.5/125, OM2 50/125, OM3 50/125 multimode or OS1/OS2 (ITU-T G.652D) singlemode 900µm buffered pigtail range.

► Choice of fibre types
► Choice of buffering material and stripping options
► Robust 900µm secondary coated fibres for ease of termination
► Standard white buffer colour
► Also available in 12 standard colours on request

Applications

► Pigtails
► Internal interconnect
► Ideal for a wide range of telecoms, datacoms and process control applications where ruggedisation is required
► Data centres
► Suitable for repeated handling in patch panels and racks
► Suitable for all standard connector types.

Internal Use   Standard Length   1km

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

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Optical Fibre Cable

Pre-Coated 250µm Optical Fibres- Launch Load

G.652d Singlemode Optical Fibre

Optronics specification for ITU-T G.652d 9/125 singlemode optical fibre that exceeds the OS1 singlemode requirement. Low Water Peak (LWP) singlemode optical fibre with doped silica core and silica cladding; dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following LWP singlemode requirements.

Detailed technical specification are available on request:

• ITU-T G.652D
• IEC 60793-2-50 type B1.3
• ISO/IEC 11802 OS-1
• TIA/EIA 492-CAAB
• Telcordia GR-20-CORE

OS1 9/125   Internal Use   Standard Length   5km

Applications

► Operational in the entire 1260 nm to 1625 nm wavelength range
► Low chromatic dispersion in the 1310 nm operating window
► Low attenuation at the 1383 nm water peak region
► Operational in the 1360 nm to 1460 nm wavelength extended band
► All OS1 Optronics cable constructions including tight buffered, loose tube and ribbon
► Supports 1 Gb/s up to an indicative 5 km in data networks
► Supports high speed multi channel video, data and voice services in metropolitan and access networks
► ATM, SONET and WDM.

62.5/125 OM1 Multimode Optical Fibre

Optronics specifications for standard OM1 62.5/125 graded-index multimode optical fibre with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following 62.5/125 requirements.

Detailed technical specifications are available on request:

• ITU-T G.651
• IEC 60793-2-10 type A1b
• ISO/IEC 11802 OM-1
• TIA/EIA-492AAAA
• Telcordia GR-20-CORE

OM1 62.5/125   Internal Use   Standard Length   5km

Applications

► Gigabit Ethernet in high speed LAN networks, over an indicative 275 m link length at 850 nm wavelength
► Legacy networks including Ethernet, Fast Ethernet and FDDI
► All OM1 Optronics cable constructions, including tight buffered, loose tube and ribbon
► Data centres
► Premises cabling in data networks including backbone, riser and horizontal
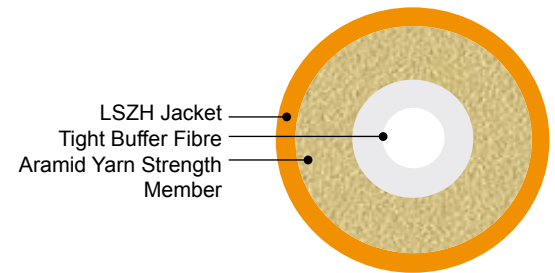► Supports video, data and voice services.

50/125 OM2 & OM3 Multimode Optical fibre

Optronics specification for standard OM2 and OM3, 50/125 graded-index multimode optical fibre with doped silica core and silica cladding. Dual layer UV cured acrylic resin primary coatings. All fibre parameters meet or exceed the following generic and laser-optimised 50/125 requirements.

Detailed technical specifications are available on request:

• ITU-T G.651
• OM2 to IEC 60793-2-10 type A1a.1. OM3 to IEC 60793-2-10 type A1a.2
• ISO/IEC 11801
• OM2 to TIA/EIA-492AAAB. OM3 to TIA / EIA-492AAAC
• Telcordia GR-20-CORE

OM2 50/125   OM3 50/125   Internal Use   Standard Length   5km

Applications

► OM2 for use in 1 Gb/s high speed LAN networks over a 550m indicative link length at 850nm wavelength using a laser launch
► OM3 for use in 10 Gb/s high speed LAN networks over a 300m indicative link length at 850nm wavelength using a laser launch
► OM3 for use in 1 Gb/s high speed LAN networks over a 1000 m indicative link length at 850 nm wavelength using a laser launch
► High speed and legacy networks including Gigabit Ethernet, Fast Ethernet and Ethernet
► All OM2 & OM3 Optronics cable constructions including tight buffered, loose tube and ribbon
► Data centres
► Premises cabling in data networks including backbone, riser and horizontal
► Supports video, data and voice services.

OPTICAL FIBRE CABLE

Fibre Optic Patch Cables

Simplex Fibre Optic Patch Cable

Fire Retardant   Internal Use   Standard Length

2km

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

LSZH Jacket
Tight Buffer Fibre
Aramid Yarn Strength Member

OPTICAL FIBRE CABLE

Optronics simplex fibre optic patch cable is ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 600µm or 900µm buffered fibre, the cable is suitable for use with industry standard connectors and can be easily made into a patchcord.

Technical Specifications

DESCRIPTION		1-CORE LSZH	1-CORE LSZH	1-CORE LSZH	1-CORE LSZH	1-CORE LSZH
Outer Diameter	mm	1.6	1.8	2.0	2.4	3.0
Weight	kg/km	2.9	3.2	3.5	5.0	6.8
Max. Load (installation)	N	80	80	100	100	150
Max. Load (installed)	N	40	40	60	60	80
Min. Bend Radius (installation)	Times diameter	20	20	20	20	20
Min. Bend Radius (installed)	Times diameter	10	10	10	10	10
Fire Performance		LSZH	LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70	-20~+70	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	500	500	500	500	500

Applications

► Patchcords
► Pigtails
► Internal inter-connections.

Features

► Choice of fibre type
► Choice of outer diameter
► High strength aramid yarn strength member
► Easy to strip
► LSZH jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
1-Core 2.0mm	OM1SIMOR2MM6-C	1-Core 2.0mm	OM3SIMAQ2MM6-C
1-Core 3.0mm	OM1SIMOR-C	1-Core 3.0mm	OM3SIMAQ-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
1-Core 2.0mm	OM2SIMOR2MM6-C	1-Core 2.0mm	OM4SIMAQ2MM6-C
1-Core 3.0mm	OM2SIMOR-C	1-Core 3.0mm	OM4SIMAQ-C
OS1/OS2 /OS2 9/125 µm Singlemode			
1-Core 2.0mm	OS1/OS2 SIMY-E2MM6-C		
1-Core 3.0mm	OS1/OS2 SIMYE-C		

DID YOU KNOW

Pre-terminated cables are available.

Please call the sales team on
44 (0)870 127 3330
for more details.
Alternatively download a copy of
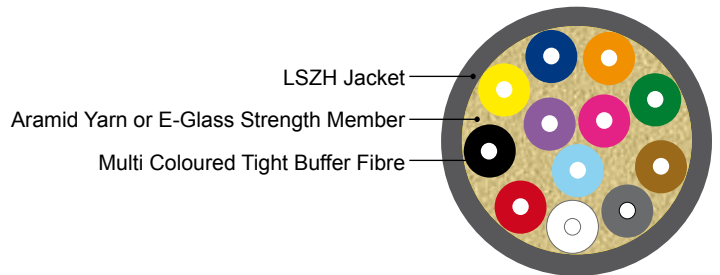our Pre-terminated Cable Catalogue
from www.fibrefab.com

Can't find what you're looking for? Don't hesitate to contact us...

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Fibre Optic Patch Cables

Zip Duplex Fibre Optic Patch Cable

Fire Retardant **Internal Use** **Standard Length**

2km

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

LSZH Jacket
Tight Buffer Fibre
Aramid Yarn Strength Member
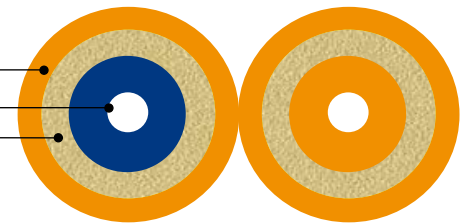
Optronics zip duplex fibre optic patch cable is constructed with two simplex units joined together with a central web. Ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 600 or 900µm buffered fibre, the cable is suitable for use with industry standard connectors and can be easily made into a patchcord.

Technical Specifications

DESCRIPTION		2-CORE LSZH	2-CORE LSZH	2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	1.6*3.3	1.8*3.7	2.0*4.1	2.8*5.7
Weight	kg/km	5.7	6.7	8.2	13.2
Max. Load (installation)	N	160	160	200	300
Max. Load (installed)	N	80	80	100	160
Min. Bend Radius (installation)	Times diameter	20	20	20	20
Min. Bend Radius (installed)	Times diameter	10	10	10	10
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000

Applications

► Patchcords
► Pigtails
► Internal inter-connections.

Features

► Choice of fibre type
► Choice of outer diameter
► High strength aramid yarn strength member
► Easy to strip
► LSZH jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
2-Core 2.0mm	OM1ZIPOR2MM6-C	2-Core 2.0mm	OM3ZIPAQ2MM6-C
2-Core 2.8mm	OM1ZIPOR-C	2-Core 2.8mm	OM3ZIPAQ-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
2-Core 2.0mm	OM2ZIPOR2MM6-C	2-Core 2.0mm	OM4ZIPAQ2MM6-C
2-Core 2.8mm	OM2ZIPOR-C	2-Core 2.8mm	OM4ZIPAQ-C
OS1/OS2 /OS2 9/125 µm Singlemode			
2-Core 2.0mm	OS1/OS2 ZIPYE2MM6-C		
2-Core 2.8mm	OS1/OS2 ZIPYE-C		

CUT TO LENGTH CALL FOR DETAILS

OPTICAL FIBRE CABLE

Fibre Optic Patch Cables

Flat Duplex Fibre Optic Patch Cable

Fire Retardant   Internal Use   Standard Length

2km

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

- LSZH Jacket
- Simplex LSZH Jacket
- Tight Buffer Fibre
- Aramid Yarn Strength Member
- Rip Cord
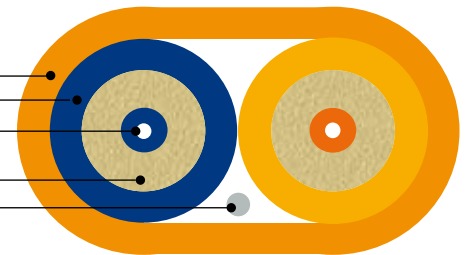
Optronics flat duplex fibre optic patch cable is constructed with two simplex units held together with an overall LSZH jacket. Ideal for use in office LAN connections, patchcords, pigtails and internal point-to-point links where frequent handling is likely (e.g. data cabinets, equipment rooms, user outlets). Utilising 900µm buffered fibre, the cable unit is suitable for use with industry standard connectors and can be easily made into a patchcord.

Technical Specifications

DESCRIPTION		2-CORE LSZH	2-CORE LSZH
Outer Diameter	mm	3.0 x 5.0	3.8 x 6.6
Weight	kg/km	11	24
Max. Load (installation)	N	250	250
Max. Load (installed)	N	125	125
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+70	-20~+70
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	200	200

Applications

▶ Patchcords
▶ Pigtails
▶ Internal inter-connections.

Features

▶ Choice of fibre type
▶ Choice of outer diameter
▶ High strength aramid yarn strength member
▶ Easy to strip
▶ LSZH jacket
▶ LSZH overall jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.	PRODUCT DESCRIPTION	PART NO.
OM1 62.5/125 µm Multimode		OM3 50/125 µm Multimode	
2-Core 2.0mm	OM1FLATORANGE2-C	2-Core 2.0mm	OM3FLATAQUA2-C
2-Core 2.8mm	OM1FLATORANGE-C	2-Core 2.8mm	OM3FLATAQUA-C
OM2 50/125 µm Multimode		OM4 50/125 µm Multimode	
2-Core 2.0mm	OM2FLATORANGE2-C	2-Core 2.0mm	OM4FLATAQUA2-C
2-Core 2.8mm	OM2FLATORANGE-C	2-Core 2.8mm	OM4FLATAQUA-C
OS1/OS2 /OS2 9/125 µm Singlemode			
2-Core 2.0mm	OS1/OS2 FLATYEL-LOW2-C		
2-Core 2.8mm	OS1/OS2 FLATYEL-LOW-C		

Other diameters available on request.

DID YOU KNOW

Pre-terminated cables are available.

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Can't find what you're looking for? Don't hesitate to contact us...

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Tight Buffered Cables

Tight Buffered Distribution Cable (4-24 Fibres)

Fire Retardant Internal Use Standard Length Standard Length

4km 2km

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

LSZH Jacket

Aramid Yarn or E-Glass Strength Member

Multi Coloured Tight Buffer Fibre

Optronics tight buffered internal/external distribution cables are constructed of 900µm buffered fibres surrounded by aramid yarn or e-glass strength members jacketed in an LSZH outer jacket.

Technical Specifications

DESCRIPTION		4-CORE LSZH	8-CORE LSZH	12-CORE LSZH	24-CORE LSZH
Outer Diameter	mm	4.8 ±0.3	5.8 ±0.3	6.5 ±0.3	7.5 ±0.3
Weight	kg/km	26	34	40	61
Max. Load (installation)	N	600	750	750	900
Max. Load (installed)	N	300	375	375	450
Min. Bend Radius (installation)	mm	96	116	130	150
Min. Bend Radius (installed)	mm	48	58	65	75
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000

Applications

► Internal cable for installation in trunking, under floor or ceiling spaces
► Short run external links between buildings
► Fibre backbones in riser and horizontal configurations.

Features

► Choice of fibre type
► Colour coded fibres
► High strength aramid yarn strength member
► Easy to strip
► LSZH jacket.

OPTICAL FIBRE CABLE

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TB**UBK-C
OM2	OM2TB**UBK-C
OM3	OM3TB**UBK-C
OM4	OM4TB**UBK-C
OS1/OS2	OS1/OS2 TB**UBK-C

Where ** is the fibre count between 4 & 24

CUT TO LENGTH CALL FOR DETAILS

Tight Buffered Cables

Tight Buffered Distribution Cable Multi-core (36-96 Fibres)

Fire Retardant | Internal Use | 36-Core Standard Length | 48 to 96-Core Standard Length

4km | 2km

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

LSZH Outer Jacket

FRP & Jacket

Multicore Buffered Cable
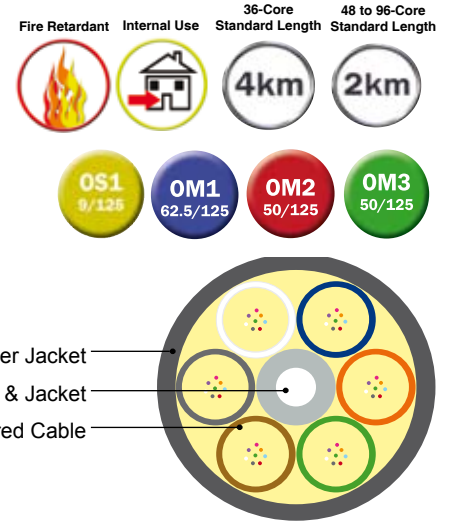
36 to 96 fibre, stranded sub unit rodent resistant internal distribution cables consisting of 4 to 8, 12 fibre sub units and fillers when necessary. Each sub unit consists of 12, 900 µm tight buffered optical fibres with e-glass non-metallic strength members and LSZH jacket. The individually coloured 6mm outside diameter (OD) sub units are helically stranded around an FRP central strength member with polyester wrapping tape, ripcord and Low Smoke Zero Halogen (LSZH) final jacket.

Technical Specifications

DESCRIPTION		36-CORE LSZH	48-CORE LSZH	72-CORE LSZH	96-CORE LSZH
Outer Diameter	mm	17.4 ±0.5	17.4 ±0.5	21.6 ±0.5	25.5 ±0.5
Weight	kg/km	237	237	397	571
Max. Load (installation)	N	2800	2800	4600	5000
Max. Load (installed)	N	1500	1500	2000	2200
Min. Bend Radius (installation)	mm	350	350	440	500
Min. Bend Radius (installed)	mm	175	175	220	250
Fire Performance		LSZH	LSZH	LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1500	1500	1500	1500

Applications

▶ Internal cable for horizontal distribution or riser applications.

Features

▶ Choice of fibre type

▶ Colour coded fibres for easy identification

▶ High strength aramid yarn strength member

▶ Easy to strip

▶ LSZH jacket

▶ Lightweight and compact.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1TBM**UBK-C
OM2	OM2TBM**UBK-C
OM3	OM3TBM**UBK-C
OM4	OM4TBM**UBK-C
OS1/OS2	OS1/OS2 TBM**UBK-C

Where ** is the fibre count between 36 & 96

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Breakout Fibre Optic Cable

Breakout Fibre Optic Cable (4-24 Fibres)

Fire Retardant **Internal Use** **Standard Length**

4km

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

LSZH Outer Jacket
FRP CSM & Padding
Simplex Cable
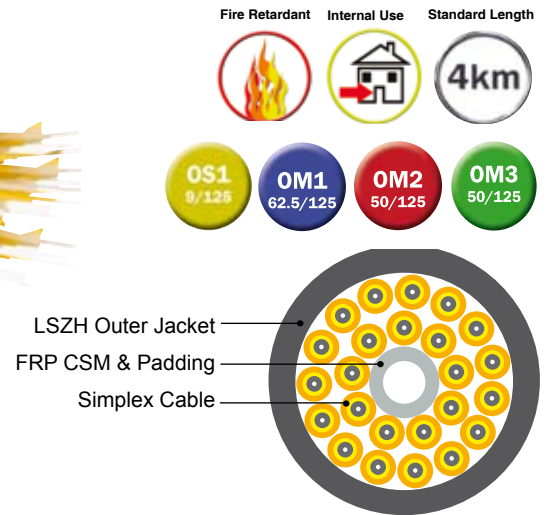
Optronics breakout cables are constructed of up to 24, 2mm simplex cables stranded around a central strength member. Each simplex has its own aramid yarn strength member and jacket. These sub units are wrapped in a polyester tape and jacketed in LSZH.

Technical Specifications

DESCRIPTION		4 CORE LSZH	6 CORE LSZH	8 CORE LSZH	12 CORE LSZH	24 CORE LSZH
Outer Diameter	mm	7.0	8.2	9.4	11.8	14.1
Weight	kg/km	46	63	86	139	159
Max. Load (installation)	N	500	1000	1100	1400	2300
Max. Load (installed)	N	270	600	700	800	1100
Min. Bend Radius (installation)	mm	140	160	190	240	280
Min. Bend Radius (installed)	mm	70	80	95	120	140
Fire Performance					LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000	1000	1000	1000

Applications

▶ Internal cable for installation in trunking, under floor or ceiling spaces

▶ Short run external links between buildings

▶ Fibre backbones in riser and horizontal configurations.

Features

▶ Choice of fibre type

▶ Colour coded fibres

▶ High strength aramid yarn strength member

▶ LSZH jacket

▶ Easy to strip.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1	OM1BO**UOR-C
OM2	OM2BO**UOR-C
OM3	OM3BO**UAQ-C
OM4	OM4BO**UAQ-C
OS1/OS2	OS1/OS2 BO**UYE-C

Where ** is the fibre count between 4 & 24

Other diameters are available upon request.

CUT TO LENGTH · CALL FOR DETAILS

OPTICAL FIBRE CABLE

Loose Tube Fibre Optic Cables

Single Loose Tube Fibre Optic Cable (2-24 Fibres)

Fire Retardant **Water Resistant** **Rodent Resistant** **Internal Use** **External Use** **Standard Length**

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

PE/LSZH Jacket
E-glass Strength Member
PBT Loose Tube
Optical Fibres
Water Repellent Gel
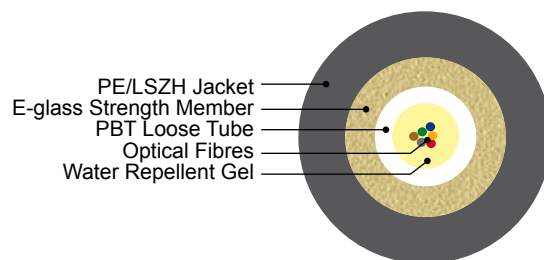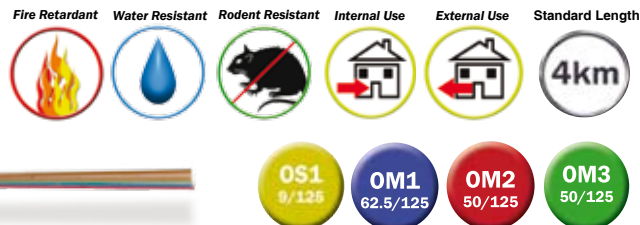
2 to 24 fibre OM1, OM2, OM3, OM4 multimode or OS1/OS2 (ITU-T G.652D singlemode 250µm single loose tube external duct cables with e-glass strength members and polyethylene (PE) or Low Smoke Zero Halogen (LSZH) jacket.

Technical Specifications

DESCRIPTION		2-12 CORE PE	14-24 CORE LSZH
Outer Diameter	mm	6.0 ±0.3	6.7 ±0.3
Weight	kg/km	40	47
Max. Load (installation)	N	1000	1000
Max. Load (installed)	N	500	500
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	1000	1000

Applications

► Suitable for internal or external applications in ducts or intra-building links in campus environments.

Features

► Choice of fibre type
► Choice of coded fibres
► Small OD, light weight
► PE or LSZH outer jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1LT**PBK-C
OM1 LSZH	OM1LT**UBK-C
OM2 PE	OM2LT**PBK-C
OM2 LSZH	OM2LT**UBK-C
OM3 PE	OM3LT**PBK-C
OM3 LSZH	OM3LT**UBK-C
OM4 PE	OM4LT**PBK-C
OM4 LSZH	OM4LT**UBK-C
OS1/OS2 PE	OS1/OS2 LT**PBK-C
OS1/OS2 LSZH	OS1/OS2 LT**UBK-C

Where ** is the fibre count between 4 & 24

CUT TO LENGTH CALL FOR DETAILS

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Optical Fibre Cable

Loose Tube Fibre Optic Cables

Multi Loose Tube Fibre Optic Cable (24-144 Fibres)
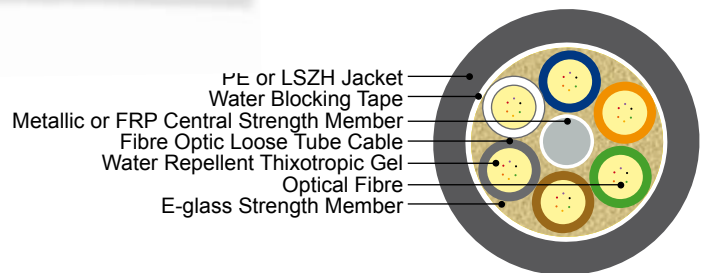
Water Resistant **Fire Retardant** **Rodent Resistant** **Internal Use** **External Use** **Standard Length**

2km

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

PE or LSZH Jacket
Water Blocking Tape
Metallic or FRP Central Strength Member
Fibre Optic Loose Tube Cable
Water Repellent Thixotropic Gel
Optical Fibre
E-glass Strength Member

The multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non metallic strength members with ripcord and black high density polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

Technical Specifications

DESCRIPTION		24 TO 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	10.5 ±0.4	11.1 ±0.4	12.6 ±0.4	14.1 ±0.4	15.6 ±0.4
Weight	kg/km	90	97	121	148	178
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	210	220	250	280	310
Min. Bend Radius (installed)	mm	105	110	125	140	155
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000	2000	2000	2000

Applications

▶ Suitable for internal or external applications in ducts or intra-building links in campus environments.

Features

▶ Choice of fibre type
▶ Colour coded fibres
▶ Choice of PE or LSZH jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1MLT**PBK-C
OM1 LSZH	OM1MLT**UBK-C
OM2 PE	OM2MLT**PBK-C
OM2 LSZH	OM2MLT**UBK-C
OM3 PE	OM3MLT**PBK-C
OM3 LSZH	OM3MLT**UBK-C
OM4 PE	OM4MLT**PBK-C
OM4 LSZH	OM4MLT**UBK-C
OS1/OS2 PE	OS1/OS2 MLT**PBK-C
OS1/OS2 LSZH	OS1/OS2 MLT**UBK-C

Where ** is the fibre count between 4 & 24

CUT TO LENGTH CALL FOR DETAILS

OPTICAL FIBRE CABLE

Loose Tube Fibre Optic Cables

Single Loose Tube STA Fibre Optic Cable (2-24 Fibres)

Rodent Resistant | Water Resistant | Internal Use | External Use | Standard Length

4km

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

PE or LSZH Jacket
Corrugated Steel Tape
Water Barrier
Parallel Steel Wire Strength Member
Optical Fibre
Water Repellent Thixotropic Gel
Central Loose Tube
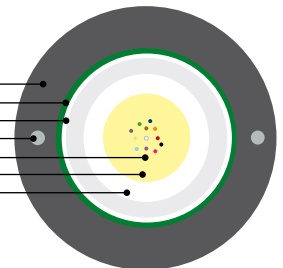
Optronics single loose tube corrugated steel tape armoured cables are constructed of 250µm fibres held in a gel filled central loose tube surrounded by water-blocking tape and corrugated, polyethylene laminated steel tape. The cable features two parallel steel wire strength members embedded in the PE / LSZH outer jacket.

Technical Specifications

DESCRIPTION		2-12 CORE	14-24 CORE
Outer Diameter	mm	10.0 ±0.3	10.7 ±0.3
Weight	kg/km	106	122
Max. Load (installation)	N	1500	1500
Max. Load (installed)	N	600	600
Min. Bend Radius (installation)	Times diameter	20	20
Min. Bend Radius (installed)	Times diameter	10	10
Fire Performance		LSZH	LSZH
Operating Temp.	°C	-20~+60	-20~+60
Storage Temp.	°C	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60
Crush Resistance	N/100mm	2000	2000

Applications

▶ Suitable for external applications in ducts, aerial applications or direct burial.

Features

▶ Choice of fibre type

▶ Colour coded fibres

▶ High crush resistance

▶ PE jacket

▶ High tensile strength.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1LTSTA**PBK-C
OM1 LSZH	OM1LTSTA**UBK-C
OM2 PE	OM2LTSTA**PBK-C
OM2 LSZH	OM2LTSTA**UBK-C
OM3 PE	OM3LTSTA**PBK-C
OM3 LSZH	OM3LTSTA**UBK-C
OM4 PE	OM4LTSTA**PBK-C
OM4 LSZH	OM4LTSTA**UBK-C
OS1/OS2 PE	OS1/OS2 LTSTA**PBK-C
OS1/OS2 LSZH	OS1/OS2 LTSTA**UBK-C

Where ** is the fibre count between 2 & 24

DID YOU KNOW

Pre-terminated cables are available.

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Optical Fibre Cable

Loose Tube Fibre Optic Cables

Multi Loose Tube CST Fibre Cable (4-144 Fibres)

Rodent Resistant Water Resistant Internal Use External Use 4 to 36-Core Standard Length 48 to 144-Core Standard Length

4km 2km

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

PE or LSZH Outer Jacket
Corrugated Steel Tape
Binding Tape
Loose Tube
Metallic or FRP Strength Member
Fillers (gel, water blocking yarn)
Water Repellent Thixotropic Gel
Optical Fibre
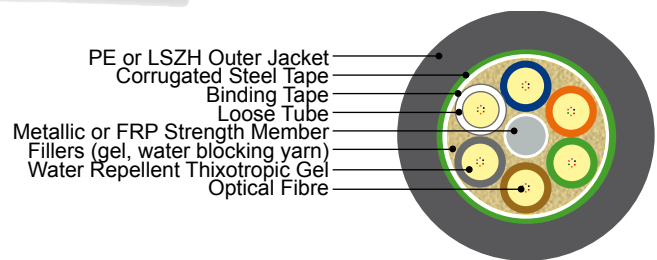
The multi loose tube cable construction consists of up to up to 12 elements and a maximum of 144, 250 µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a jacketed Fibre Reinforced Plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied waterblocking e-glass non metallic strength members with ripcord. Corrugated Steel Tape (CST) armouring and black High Density Polyethylene (HDPE) or Low Smoke Zero Halogen (LSZH) jacket.

Technical Specifications

DESCRIPTION		24 TO 60-CORE	72-CORE	96-CORE	120-CORE	144-CORE
Outer Diameter	mm	12.0 ±0.4	12.6 ±0.4	14.1 ±0.4	15.6±0.4	17.1 ±0.4
Weight	kg/km	166	173	207	243	284
Max. Load (installation)	N	1500	1500	1500	1500	1500
Max. Load (installed)	N	600	600	600	600	600
Min. Bend Radius (installation)	mm	240	252	280	320	340
Min. Bend Radius (installed)	mm	120	126	140	160	170
Operating Temp.	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Storage Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Installation Temp.	°C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Crush Resistance	N/100mm	3000	3000	3000	3000	3000

Applications

► Suitable for external & aerial applications.

Features

► Choice of fibre type
► Colour coded fibres
► High water resistant
► High crush resistant
► PE jacket.

Ordering Information

PRODUCT DESCRIPTION	PART NO.
OM1 PE	OM1MLTSTA***PBK-C
OM1 LSZH	OM1MLTSTA***UBK-C
OM2 PE	OM2MLTSTA***PBK-C
OM2 LSZH	OM2MLTSTA***UBK-C
OM3 PE	OM3MLTSTA***PBK-C
OM3 LSZH	OM3MLTSTA***UBK-C
OM4 PE	OM4MLTSTA***PBK-C
OM4 LSZH	OM4MLTSTA***UBK-C
OS1/OS2 PE	OS1/OS2 MLTSTA***PBK-C
OS1/OS2 LSZH	OS1/OS2 MLTSTA***UBK-C

Where ** is the fibre count between 24 & 144

Optical Fibre Cable

Aerial Cables

Aerial Cable Figure 8 Fibre Optic Cable (24-144 Fibres)

External Use · **Water Resistant** · **Rodent Resistant** · **Standard Length 4km** · **Standard Length 2km**

Outer Jacket
Tube Filling Compound
Messenger
Central Strength Member
Loose Tube
Optical Fibre
Interstitial Filling Compound
Fillers
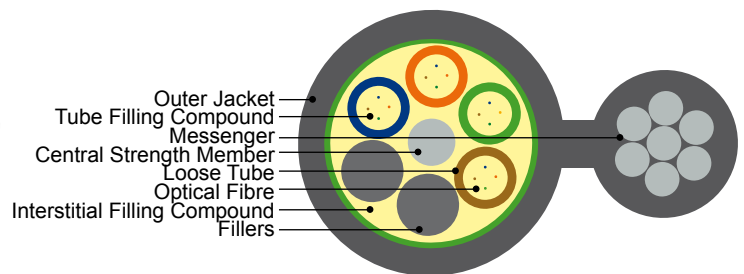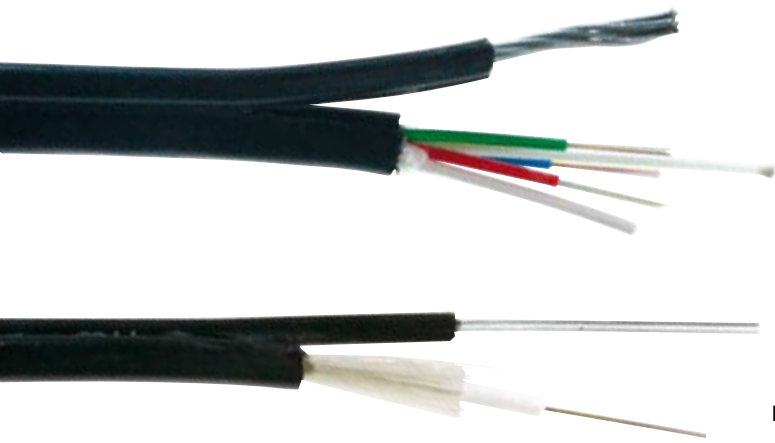
Optronics figure of 8 aerial cable, for spans up to 70m, consists of 250µm optical fibres in gel filled loose tubes with interstitial gel. Water barrier aluminium tape or steel tape armouring options are available. Tensile strength is provided by a steel messenger wire. The cable jacket is black high density polyethylene (HDPE).

Technical Specifications

DESCRIPTION		2-30	32-36	38-60	2-30	32-36	38-60	2-30	32-36	38-60	2-30	32-36	38-60
Stranded Wire		1x7-3.0	1x7-3.0	1x7-3.0	1.2x7-3.6	1.2x7-3.6	1.2x7-3.6	1.4x7-4.2	1.4x7-4.2	1.4x7-4.2	2.0x7-6.0	2.0x7-6.0	2.0x7-6.0
Cable Diameter	mm	10.1	10.8	11.6	10.1	10.8	11.6	10.1	10.8	11.6	10.1	10.8	11.6
Messenger Cable Diameter	mm	5.2	5.2	5.2	5.8	5.8	5.8	6.4	6.4	6.4	8.2	8.2	8.2
Cable Height	mm	18.3	19.0	19.9	18.9	19.6	20.5	19.5	20.2	21.1	21.3	22	22.9
Cable Weight	kg/km	127	147	152	130	150	155	132	152	158	140	160	165
Min. Bend Radius	Dynamic	10 times cable diameter											
	Static	20 times cable diameter											
Max. Running Tension	N	4950	4950	4950	7100	7100	7100	9700	9700	9700	19700	19700	19700
Safe Running Tension	N	2500	2500	2500	3500	3500	3500	4800	4800	4800	9800	9800	9800
Min. Breaking Tension	N	7990	7990	7990	10710	10710	10710	14580	14580	14580	27720	27720	27720
Max Crush Loading (N/100mm)	Short Term	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Long Term	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Ordering information available upon request.

Applications

▶ The figure of eight cables are suitable for installation in aerial environments for long haul communication.

Other diameters available on request.

Features

▶ Up to 144 fibres with single or multimode options available

▶ The loose tube stranding technology ensure fibres have good secondary excess length and allow the fibres free movement in the tube, which keeps the fibre stress free while the cable is subjected to longitudinal stress

▶ Aluminium moisture barrier tape and corrugated steel tape options

▶ Stranded wires as self supporting members provide excellent strain performance and convenient installation

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Aerial Cables

ADSS SLT Fibre Optic Cable (4-24 Core)

External Use · **Water Resistant** · **Rodent Resistant** · **Standard Length 4km** · **Standard Length 2km**

PE Outer Jacket
Aramid Yarn
Loose Tube
Fibre
Water Repellent Thixotropic Gel
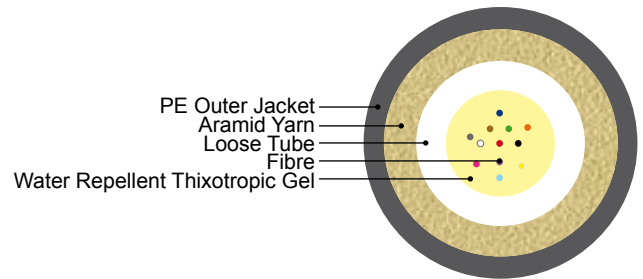
Optronics all dielectric self-supporting (ADSS) single loose tube (SLT) cables are constructed of fibres inside a gel filled central loose tube, surrounded by aramid yarn strength members and a PE outer jacket.

Technical Specifications

DESCRIPTION			F3	F6	F8	F10	F12	F16	F18	F21	F24	F24	F31
Span		m	100	200	300	400	500	600	700	800	900	1000	1200
Outer diameter		mm	11.6	12.0	12.3	12.5	12.8	13.8	14.2	14.5	14.8	15.1	15.5
Weight	PE Jacket	kg/km	124.2	131.1	136.3	141.4	146.5	165.9	172.6	179.2	185.8	192.3	202.1
Cross Area		mm²	105.68	112.70	117.90	123.07	128.19	150.21	157.40	164.55	171.65	178.70	189.20
Area of Strength Member		mm²	5.67	10.20	13.62	17.02	20.43	26.10	30.64	35.18	39.72	44.26	51.07
RTS		kN	8.50	15.30	20.40	25.50	30.60	39.10	45.90	52.70	59.50	66.30	76.50
MOTS		kN	3.40	6.12	8.16	10.20	12.24	15.64	18.36	21.08	23.80	26.52	30.60
EDS		kN	2.13	3.83	5.10	6.38	7.65	9.78	11.48	13.18	14.88	16.58	19.13
Ultimate Exceptional Stress		kN	5.10	9.18	12.24	15.30	18.36	23.46	27.54	31.62	35.70	39.78	45.90
Modulus		KN/ mm²	8.44	12.52	15.27	17.79	20.11	21.71	24.02	26.13	28.07	29.86	32.31
Thermal Expansion Coefficient		10⁻6/°C	9.32	5.28	3.78	2.80	2.12	1.42	0.99	0.67	0.41	0.20	-0.05
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Installation	N/10cm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Min. Bend Radius	Operation	mm	174	180	185	188	192	207	213	218	222	227	233
	Installation	mm	290	300	308	313	320	345	355	363	370	378	388
Temperature	Installation	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag (5mm inc load average 20°C)	PE Jacket	%	0.72	0.84	1.06	1.28	1.47	1.57	1.63	1.71	1.78	1.87	2.18

Applications

▶ Aerial - can be lashed to or wrapped around ground wires.

Other diameters available on request.

Features

▶ Lightweight, all-dielectric construction is ideal for use near electrical power lines and in areas of frequent lightning strikes

▶ Round construction is ideal for minimum wind drag and ice build-up

▶ Low weight increases span length

▶ Wide operating temperature range: -40°C - +70°C.

OPTICAL FIBRE CABLE

Aerial Cables

ADSS MLT Fibre Optic Cable (24-144 Fibres)

External Use **Water Resistant** **Rodent Resistant** **Standard Length** **Standard Length**

4km **2km**

PE Outer Jacket
Aramid Yarn
Inner Jacket
Cable Core Jelly
Central Strength Member
Loose Tube
Water Repellent Thixotropic Gel
Fibre
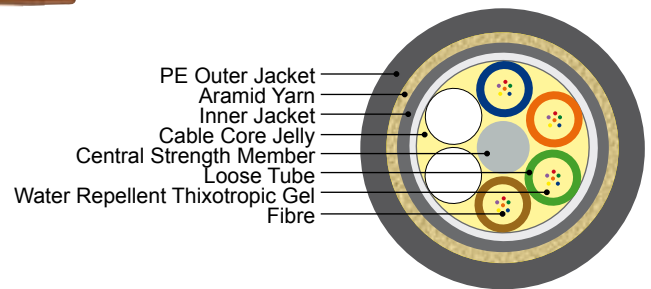
Optronics All Dielectric Self-Supporting Multi Loose Tube (MLT) cables are constructed of fibres inside gel filled central loose tubes, wrapped around an FRP central strength member. This is encased in a PE inner jacket, aramid yarns and a PE outer jacket.

Technical Specifications

DESCRIPTION			F3	F6	F8	F10	F12	F16	F18	F21	F24	F24	F31
Span		m	100	200	300	400	500	600	700	800	900	1000	1200
Outer Diameter		mm	11.6	12.0	12.3	12.5	12.8	13.8	14.2	14.5	14.8	15.1	15.5
Weight	PE Jacket	kg/km	124.2	131.1	136.3	141.4	146.5	165.9	172.6	179.2	185.8	192.3	202.1
Cross Sectional Area		mm²	105.68	112.70	117.90	123.07	128.19	150.21	157.40	164.55	171.65	178.70	189.20
Area Of Strength Member		mm²	5.67	10.20	13.62	17.02	20.43	26.10	30.64	35.18	39.72	44.26	51.07
RTS		kN	8.50	15.30	20.40	25.50	30.60	39.10	45.90	52.70	59.50	66.30	76.50
MOTS		kN	3.40	6.12	8.16	10.20	12.24	15.64	18.36	21.08	23.80	26.52	30.60
EDS		kN	2.13	3.83	5.10	6.38	7.65	9.78	11.48	13.18	14.88	16.58	19.13
Ultimate Exceptional Stress		kN	5.10	9.18	12.24	15.30	18.36	23.46	27.54	31.62	35.70	39.78	45.90
Modulus		KN/ mm	8.44	12.52	15.27	17.79	20.11	21.71	24.02	26.13	28.07	29.86	32.31
Thermal Expansion Coefficient		10^{-6}/°C	9.32	5.28	3.78	2.80	2.12	1.42	0.99	0.67	0.41	0.20	-0.05
Crush Strength	Operation	N/10cm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Installation	N/10cm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Safety Factor			2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Min. Bend Radius	Operation	mm	174	180	185	188	192	207	213	218	222	227	233
	Installation	mm	290	300	308	313	320	345	355	363	370	378	388
Temperature	Installation	°C	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60	-10~+60
	Transport	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
	Operation	°C	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70	-40~+70
Sag (5mm inc load average 20°C)	PE Jacket	%	0.72	0.84	1.06	1.28	1.47	1.57	1.63	1.71	1.78	1.87	2.18

Applications

► Aerial - can be lashed to or wrapped around ground wires.

Other diameters available on request.

Features

► Lightweight, all-dielectric construction is ideal for use near electrical power lines and in areas of frequent lightning strikes

► Round construction is ideal for minimum wind drag and ice build-up

► High tensile strength

► Wide operating temperature range: -40°C - +70°C.

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OPTICAL FIBRE CABLE

Aerial Cables

Optical Ground Wire (Central Steel Tube)

External Use **Standard Length**

5km

Al-Clad Steel Wire
Al-Alloy Wire
Op-Unit
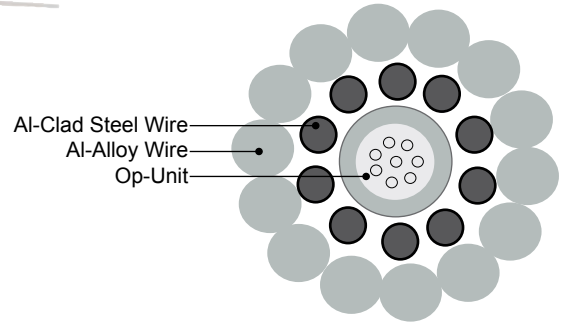
Optronics central steel tube OPGW cables are constructed of loose fibres in a gel filled, stainless steel tube. This is surrounded by aluminium clad steel wires, which are in turn, surrounded by one or more layers of aluminium alloy wires.

Technical Specifications

DESCRIPTION		OPGW-1C1X20SM (AA/AS 0/48-3.6)	OPGW-1C1X24SM (AA/AS 0/54-4.0)
Maximum Fibre Count	Cores	20	24
Cable diameter	mm	9.6	10.2
Cable Weight	kg/km	348	389
Load Bearing Cross-Section Area	mm²	48.2	54.5
Rated Tensile Strength	kN	59.5	67.2
Young's Modulus	kN/mm²	162.0	162.0
Thermal Expansion Coefficient	10⁻6/°C	13.0	13.0
Maximum Operation Stress	N/mm²	517.9	517.9
Everyday Stress	N/mm²	221.9	221.9
DC Resistance	Ω/km	1.782	1.578
Short Circuit Current	KA	3.6	4.0
Short Circuit Current Capacity	KA²s	12.7	16.1
Min. Bend Radius	mm	144	153
Installation Temperature Range	°C	-10~+50	-10~+50
Temp. Range of transportation and operation	°C	-40~+80	-40~+80

Applications

► Replacing existing aerial ground wires

► Upgrading power line communication systems

► Installing on new aerial power lines

► Provides short circuit and lightning strike protection.

Features

► Small cable diameters, light weight, low additional load to poles

► Central steel tube

► Extra fibres can be added

► Fibres are free of stress

► All metal construction means no UV or temperature degradation; long lasting

► High mechanical strength and large short circuit current capacity.

OPTICAL FIBRE CABLE

Other diameters available on request.

PROJECT SUPPORT AVAILABLE

Aerial Cables

Optical Ground Wire (Stranded Steel Tube)

External Use   **Standard Length**   **5km**

Al-Alloy Wire
Op-Unit
Al-Clad Steel Wire

OPTICAL FIBRE CABLE
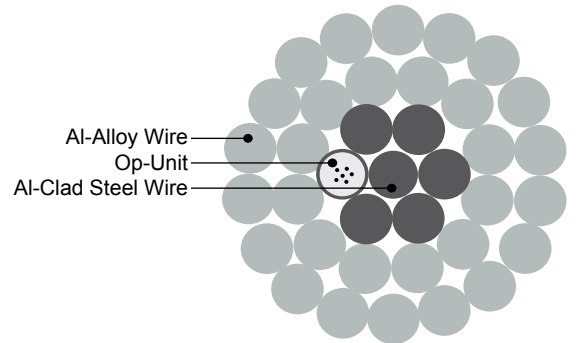
Optronics stranded steel tube OPGW cables are constructed of loose fibres in a gel filled, stainless steel tube. This is surrounded by aluminium clad steel wires, which can in turn be surrounded by one or more layers of aluminium alloy wires.

Technical Specifications

DESCRIPTION		OPGW-2S1X16SM (AA/AS52/30-7.8)	OPGW-2S1X16SM (AA/AS59/30-8.5)	OPGW-2S1X24SM (AA/AS64/36-9.6)	OPGW-2S1X24SM (AA/AS71/36-10.3)	OPGW-2S1X28SM (AA/AS85/43-12.3)	OPGW-2S1X34SM (AA/AS83/51-12.8)
Maximum Fibre Count	Cores	16	16	24	24	28	34
Cable diameter	mm	12.10	12.60	13.35	13.85	15.20	15.50
Cable Weight	kg/km	366	386	440	460	545	592
Load Bearing Cross-Section Area	mm²	81.5	88.8	99.9	107.4	128.2	134.3
Rated Tensile Strength	kN	52.1	54.2	63.3	65.5	78.5	87.5
Young's Modulus	kN/mm²	100.5	97.6	100.0	97.6	97.8	101.9
Thermal Expansion Coefficient	10¯6/°C	17.1	17.4	17.2	17.4	17.4	17.0
Maximum Operation Stress	N/mm²	268.1	256.4	266.2	256.3	257.2	273.8
Everyday Stress	N/mm²	114.9	109.9	114.1	109.8	110.2	117.4
DC Resistance	Ω/km	0.525	0.471	0.427	0.389	0.327	0.322
Short Circuit Current	KA	7.8	8.5	9.6	10.3	12.3	12.8
Short Circuit Current Capacity	KA²s	60.8	73.1	91.5	106.9	152.4	163.7
Min. Bend Radius	mm	181	189	200	207	228	232
Installation Temperature Range	°C	-10~+50	-10~+50	-10~+50	-10~+50	-10~+50	-10~+50
Temp. Range Transportation And Operation	°C	-40~+80	-40~+80	-40~+80	-40~+80	-40~+80	-40~+80

Applications

▶ Replacing existing aerial ground wires

▶ Upgrading power line communication systems

▶ Installation on new aerial power lines

▶ Provides short circuit and lightning strike protection

▶ Suitable for high fibre count and super voltage power lines.

Other diameters available on request.

Features

▶ Larger cable diameters

▶ Steel tube unit is placed in an eccentric position & stranded together with Al-clad steel wires and/or Al-alloy wires

▶ Good flexibility and crush resistance

▶ Fibres are free of stress and vibration

▶ High mechanical strength and large short circuit current capacity

▶ Multi layer armouring available as required.

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Aerial Cable Accessories

Optronics offers all the accessories required to suspend both OPGW and ADSS cables from electricity power pylons or poles. These include suspension clamps, tension clamps, joint boxes, vibration dampers, armour rods, cable trays and many other items. This page is intended to provide an overview of the product range. More details are available on request.

TENSION CLAMP
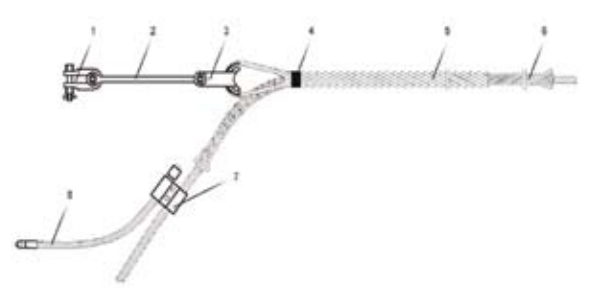
1. Clevis thimble (optional)
2. Extension link (optional)
3. Thimble eye
4. ID tag
5. Dead-end component
6. Structural reinforcing rods
7. Bonding clamp
8. Grounding wire (optional)

SUSPENSION CLAMP
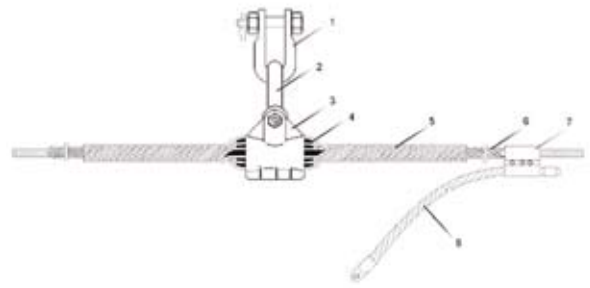
1. Clevis thimble (optional)
2. Double eye twisted (optional)
3. Cast aluminium clamp
4. Elastomer insert clamp
5. Outer rods
6. Structural reinforcing rods
7. Grooved earthing clamps
8. Grounding wire (optional)

DOUBLE PREFORMED SUSPENSION CLAMP
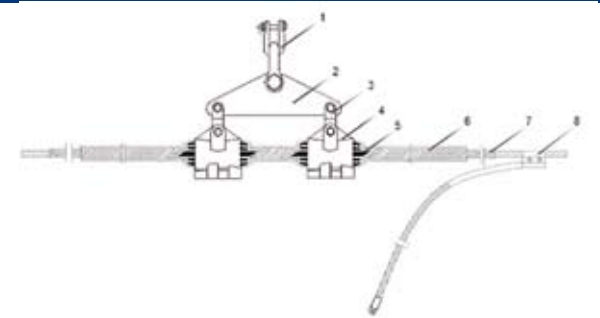
1. Clevis thimble (optional)
2. Suspension link - double pivots
3. Suspension link - model PS
4. Cast aluminium insert
5. Rubber insert
6. Outer Rods
7. Structural reinforcing rods
8. Grooved earthing clamps
9. Grounding wire
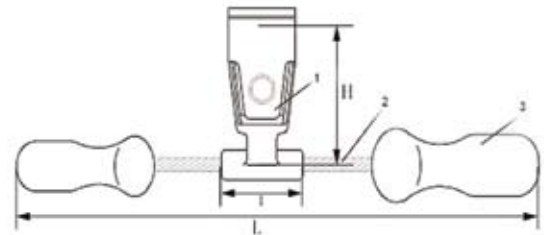
VIBRATION DAMPER

1. Cast aluminium clamp (AA)
2. Galvanized steel wire
3. Hammer: cast iron, hot galvanized steel

VIBRATION DAMPER FOR ADSS
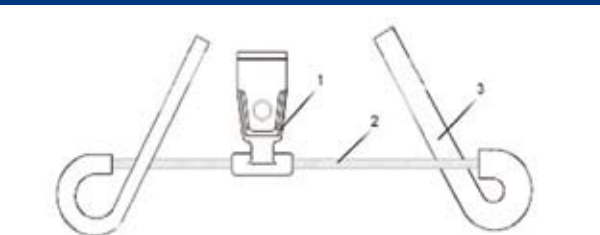
1. Cast aluminium clamp
2. Galvanized steel wire
3. Hammer

ANTI ELECTRICAL STRESS COIL
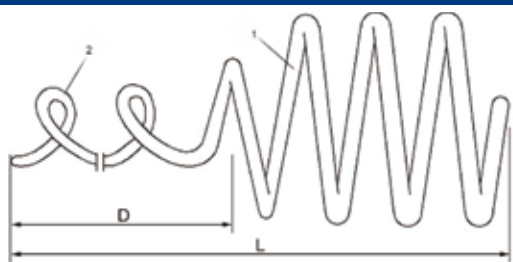
1. Gripping section
2. Coil section

OPTICAL FIBRE CABLE
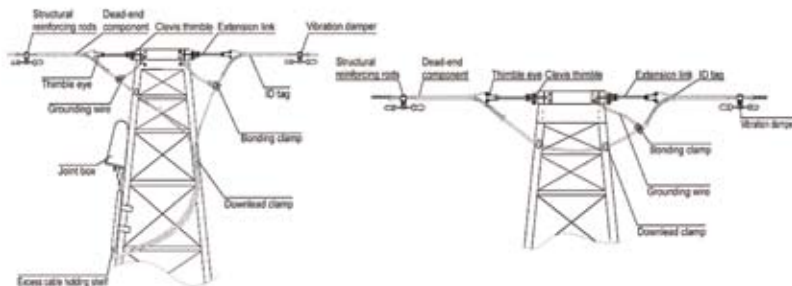
Optical Fibre Cable

Fibre Optic Cable for Telecommunication

Direct Buried Single Jacket Fibre Optic Cable (12 -144 Fibres)

Water Resistant   Rodent Resistant   External Use   Telecomunications   Standard Length   Standard Length

4km   2km

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

PE Outer Jacket
Corrugated CST
Water Blocking Non Metallic Strength Members
FRP central strength member
Water Swellable Thread
Ripcord
Water Swellable Tape
12 Fibre Gel Filled Loose Tube
250um Optical Fibre
Helical Core Binding

The Optronics multi element multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non-metallic strength members with ripcord. Corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

Technical Specifications

DESCRIPTION		A-DQ(ZM) (SR)2Y 12	A-DQ(ZM) (SR)2Y 24	A-DQ(ZM) (SR)2Y 36	A-DQ(ZM) (SR)2Y 48	A-DQ(ZM) (SR)2Y 60	A-DQ(ZM) (SR)2Y 72	A-DQ(ZM) (SR)2Y 96	A-DQ(ZM) (SR)2Y 120	A-DQ(ZM) (SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	12.3	12.3	12.3	12.3	12.3	12.3	13.8	15.4	17.1
Cable Weight	kg/km	91	91	91	91	91	91	125	155	190
Max Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of standing elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20 x cable outer diameter (during laying and installation) 17.5 x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Operation Temperature Range	°C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C
Transportation Temperature Range	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

Ordering information available upon request.

Applications

▶ Direct buried

▶ Used in application with high mechanical loads.

Other diameters available on request.

Features

▶ Step layer stranded construction (up to 144 fibres)
▶ Corrugated steel tape as protection against rodents and mechanical damage
▶ Thin and robust cable
▶ Dry core construction
▶ PE jacket
▶ Wrapped in water swellable tape
▶ Filled loose tube
▶ Fibre relevant standards ITU-T G 652, G655, G656 or a combination.
▶ Cable relevant standards IEC 60793 and IEC 60794.

Can't find what you're looking for? Don't hesitate to contact us...

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Optical Fibre Cable

Fibre Optic Cable for Telecommunication

Direct Buried Double Jacket Fibre Optic Cable (12-144 Fibres)
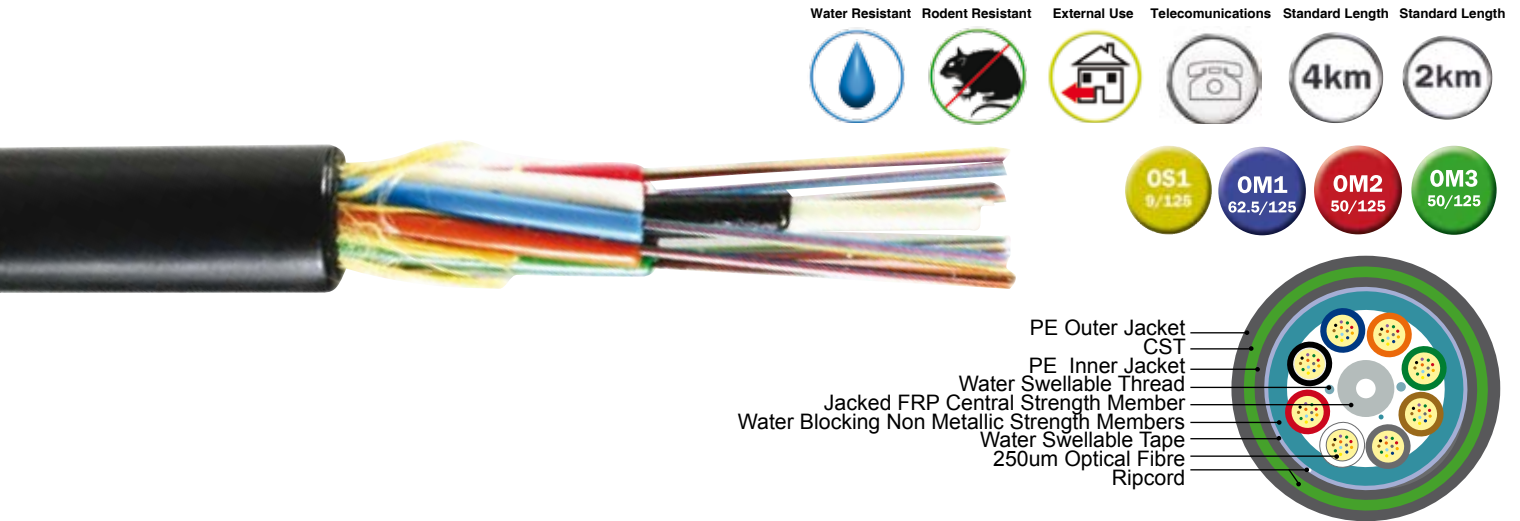
Water Resistant   Rodent Resistant   External Use   Telecomunications   Standard Length   Standard Length

4km   2km

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

PE Outer Jacket
CST
PE Inner Jacket
Water Swellable Thread
Jacked FRP Central Strength Member
Water Blocking Non Metallic Strength Members
Water Swellable Tape
250um Optical Fibre
Ripcord

The Optronics multi element multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non metallic strength members with ripcord and PE inner Jacket, Corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) final jacket with ripcord.

Technical Specifications

DESCRIPTION		A-DQ(ZM)(SR)2Y 12	A-DQ(ZM)(SR)2Y 24	A-DQ(ZM)(SR)2Y 36	A-DQ(ZM)(SR)2Y 48	A-DQ(ZM)(SR)2Y 60	A-DQ(ZM)(SR)2Y 72	A-DQ(ZM)(SR)2Y 96	A-DQ(ZM)(SR)2Y 120	A-DQ(ZM)(SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	14.7	14.7	14.7	14.7	14.7	14.7	16.2	17.8	19.5
Cable Weight	kg/km	195	195	195	195	195	195	235	280	325
Max.Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of stranding elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20 x cable outer diameter (during laying and installation) 17.5 x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Operation Temperature Range	°C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C
Transportation Temperature Range	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

OPTICAL FIBRE CABLE

Applications

▶ Direct buried

▶ Used in application with particularly high mechanical loads.

Other diameters available on request.

Features

▶ Single layer stranded construction (up to 144 fibres)

▶ Corrugated steel tape as protection against rodents and mechanical damage

▶ Particularly robust cable, filled loose tube

▶ Inner and outer jacket are made of PE jacket

▶ Wrapped in water swellable tape

▶ Core- stranded loose tube, SZ technique

▶ Tensile strength elements - dielectic central strength member

▶ Fibre relevant standards ITU-T G 652, G655, G656 or a combination

▶ Cable relevant standards IEC 60793 and IEC 60794.

Fibre Optic Cable for Telecommunication

Non-Metallic Direct Burial Cable (12 -144 Fibres)

Water Resistant Rodent Resistant External Use Telecomunications Standard Length Standard Length

4km 2km

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

PE Outer Jacket
Water Blocking Non Metallic Strength Membrain
Water Sweellable Tape
Helical Core Binders
Water Swellable Thread
Jacketed FRP Central Strength Member
12 Fibre Gel Filler Loose Tube
250µm Optical Fibre
Ripcord
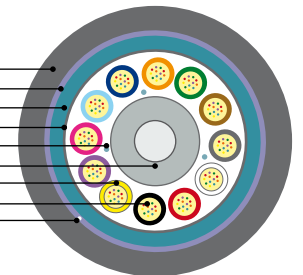
The Optronics 12 elements multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with waterswellable threads and waterswellable tape. Helically applied non metallic strength members with ripcord. corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

Technical Specifications

DESCRIPTION		A-DQ(ZM) (SR)2Y 12	A-DQ(ZM) (SR)2Y 24	A-DQ(ZM) (SR)2Y 36	A-DQ(ZM) (SR)2Y 48	A-DQ(ZM) (SR)2Y 60	A-DQ(ZM) (SR)2Y 72	A-DQ(ZM) (SR)2Y 96	A-DQ(ZM) (SR)2Y 120	A-DQ(ZM) (SR)2Y 144
Maximum Fibre Count	Cores	12	24	36	48	60	72	96	120	144
Cable Diameter	mm	11.2	11.2	11.2	11.2	11.2	11.2	12.7	14.3	16.0
Cable Weight	kg/km	91	91	91	91	91	91	125	155	190
Max. Tensile Load during installation	N	2700	2700	2700	2700	2700	2700	2700	2700	2700
Fibres per loose tube		12	12	12	12	12	12	12	12	12
Number of loose buffer tube		1	2	3	4	5	6	8	10	12
Number of standing elements		6	6	6	6	6	6	8	10	12
Min. Bend Radius		20x cable outer diameter (during laying and installation) 15x cable outer diameter (installed)								
Installation Temperature Range	°C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C
Temp. Range Transportation And Operation	°C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C

Applications

▶ Suitable for external duct applications

▶ Suitable for concrete channels

▶ Can be pulled into duct systems.

Features

▶ Multi-layered stranded construction (up to 144 fibres)

▶ Non-metallic construction

▶ Particularly light, thin and robust cable

▶ PE jacket

▶ Fibre relevant standards - ITU-T G. 652, G655, G656 or combination

▶ Cable relevant standards - IEC 60793 and IEC 60794

▶ Water swellable tape.

▶ Dielectric central strength member.

Other diameters available on request.

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OPTICAL FIBRE CABLE

Internal Management

- ▶ **1U Sliding Patch Panels**
- ▶ **Removable Front Panels**
- ▶ **Fixed Patch Panels**
- ▶ **19 Inch 3U Modular System**
- ▶ **Wall Boxes**
- ▶ **Tamperproof Wall Boxes**
- ▶ **Slimline Wall Boxes**
- ▶ **Termination Boxes**
- ▶ **Internal Management**
- ▶ **19 Inch Wall Mounted Cabinets**
- ▶ **Floor Standing Cabinets**

1U Sliding Patch Panels

S01 1U, 24 Port Sliding Patch Panel - ST, FC

Unloaded Panel : S01XXX00

24 Ports

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

The Optronics sliding tray optical fibre patch system in its basic form, is supplied with the panels unloaded ready for you to install the adapter of your choice. The panel can also be pre-loaded, complete with the required adapter and simple splice management kit, or supplied with pre-terminated cable to meet your project needs.

FC MULTIMODE	
S01 (24 ports)	**With**
S01FCM04	4 adapters
S01FCM08	8 adapters
S01FCM12	12 adapters
S01FCM16	16 adapters
S01FCM24	24 adapters
Adapter only Part No. FCUPHBR-D	

ST SINGLEMODE	
S01 (24 ports)	**With**
S01STS04	4 adapters
S01STS08	8 adapters
S01STS12	12 adapters
S01STS16	16 adapters
S01STS24	24 adapters
Adapter only Part No. STUZR02	

FC SINGLEMODE	
S01 (24 ports)	**With**
S01FCS04	4 adapters
S01FCS08	8 adapters
S01FCS12	12 adapters
S01FCS16	16 adapters
S01FCS24	24 adapters
Adapter only Part No. FCUZR02-D	

ST MULTIMODE	
S01 (24 ports)	**With**
S01STM04	4 adapters
S01STM08	8 adapters
S01STM12	12 adapters
S01STM16	16 adapters
S01STM24	24 adapters
Adapter only Part No. STUPHBR	

FCA SINGLEMODE	
S01 (24 ports)	**With**
S01FCA04	4 adapters
S01FCA08	8 adapters
S01FCA12	12 adapters
S01FCA16	16 adapters
S01FCA24	24 adapters
Adapter only Part No. FCAPCUZR02-D	

DID YOU KNOW ?

Turn to page 112 for management accessories

Specification:

Width:	Depth:	Height:	Weight:
19¨(483mm)	8¨ (200mm)	1U (44mm)	2.6 kg fully loaded

Colour:
Black RAL9004 (available in Grey RAL7035).

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📠 +44 87 01 27 33 31

1U Sliding Patch Panels

S03 1U, 24 Port Sliding Patch Panel - SC, LC, E2000

Unloaded Panel :S03XXX00

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

24 Ports

SC MULTIMODE SIMPLEX	
S03 (24 ports)	**With**
S03SCM04	4 adapters
S03SCM08	8 adapters
S03SCM12	12 adapters
S03SCM16	16 adapters
S03SCM24	24 adapters
Adapter only Part No. SCUSPHBRBEIGE	

SC SINGLEMODE SIMPLEX	
S03 (24 ports)	**With**
S03SCS04	4 adapters
S03SCS08	8 adapters
S03SCS12	12 adapters
S03SCS16	16 adapters
S03SCS24	24 adapters
Adapter only Part No. SCUSZR02	

SCA SINGLEMODE SIMPLEX	
S03 (24 ports)	**With**
S03SCA04	4 adapters
S03SCA08	8 adapters
S03SCA12	12 adapters
S03SCA16	16 adapters
S03SCA24	24 adapters
Adapter only Part No. SCAPCUSGREEN	

MTRJ	
S03 (24 ports)	**With**
S03MTM04	4 adapters
S03MTM08	8 adapters
S03MTM12	12 adapters
S03MTM16	16 adapters
S03MTM24	24 adapters
Adapter only Part No. MTRJUNITER	

E2000-APC	
S03 (24 ports)	**With**
S03E2A04	4 adapters
S03E2A08	8 adapters
S03E2A12	12 adapters
S03E2A16	16 adapters
S03E2A24	24 adapters
Adapter only Part No. E2APCUGREEN	

E2000 SINGLEMODE	
S03 (24 ports)	**With**
S03E2S04	4 adapters
S03E2S08	8 adapters
S03E2S12	12 adapters
S03E2S16	16 adapters
S03E2S24	24 adapters
Adapter only Part No. E2UBLUE	

LC MULTIMODE DUPLEX	
S03 (24 ports)	**With**
S03LCM04	4 adapters
S03LCM08	8 adapters
S03LCM12	12 adapters
S03LCM16	16 adapters
S03LCM24	24 adapters
Adapter only Part No. LCDPXBEIGE	

LC SINGLEMODE DUPLEX	
S03 (24 ports)	**With**
S03LCS04	4 adapters
S03LCS08	8 adapters
S03LCS12	12 adapters
S03LCS16	16 adapters
S03LCS24	24 adapters
Adapter only Part No. LCDPXBLUE	

INTERNAL MANAGEMENT

Specification:

Width:	Depth:	Height:	Weight:	Colour:
19¨(483mm)	8¨ (200mm)	1U (44mm)	2.6 kg fully loaded	Black RAL9004 (available in grey RAL7035).

1U Sliding Patch Panels

S05 1U, 8 Horizontal Port Sliding Patch Panel
SC Duplex, LC Quad

Unloaded Panel : S05XXX00

8 Ports

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

The Optronics sliding tray optical fibre patch system in its basic form is supplied with the panels unloaded ready for you to install the adapter of your choice. The panel can also be pre-loaded complete with the required adapter and simple splice management kit, or supplied with pre-terminated cable to meet your project needs.

Adapters

SC MULTIMODE DUPLEX	
S05 (8 ports)	**With**
S05SCM02	2 adapters
S05SCM04	4 adapters
S05SCM08	8 adapters
Adapter only Part No. SCUDPHBRBEIGE	

SCA SINGLEMODE DUPLEX	
S05 (8 ports)	**With**
S05SCA02	2 adapters
S05SCA04	4 adapters
S05SCA08	8 adapters
Adapter only Part No. SCAPCUDGREEN	

LC QUAD MULTIMODE	
S05 (8 ports)	**With**
S05LQM02	2 adapters
S05LQM04	4 adapters
S05LQM08	8 adapters
Adapter only Part No. LCQUADBEIGE	

Adapters

SC SINGLEMODE DUPLEX	
S05 (8 ports)	**With**
S05SCS02	2 adapters
S05SCS04	4 adapters
S05SCS08	8 adapters
Adapter only Part No. SCUDZR02	

LC QUAD SINGLEMODE	
S05 (8 ports)	**With**
S05LQS02	2 adapters
S05LQS04	4 adapters
S05LQS08	8 adapters
Adapter only Part No. LCQUADBLUE	

DID YOU KNOW ?

Specification:

Width:	Depth:	Height:	Weight:	Colour:
19¨(483mm)	8¨ (200mm)	1U (44mm)	2.6 kg fully loaded	Black RAL9004 (available in grey RAL7035).

INTERNAL MANAGEMENT

Can't find what you're looking for? Don't hesitate to contact us...

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1U Sliding Patch Panels

S07 1U, 12 Vertical Port Sliding Patch Panel
SC Duplex, LC Quad

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

12 Ports

Unloaded Panel : S07XXX00

The Optronics sliding tray optical fibre patch system in its basic form is supplied with the panels unloaded ready for you to install the adapter of your choice. The panel can also be pre-loaded complete with the required adapter and simple splice management kit, or supplied with pre-terminated cable to meet your project needs.

SC MULTIMODE DUPLEX	
S07 (12 ports)	**With**
S07SCM04	4 adapters
S07SCM08	8 adapters
S07SCM12	12 adapters
Adapter only Part No. SCUDPHBRBEIGE	

SC SINGLEMODE DUPLEX	
S07 (12 ports)	**With**
S07SCS04	4 adapters
S07SCS08	8 adapters
S07SCS12	12 adapters
Adapter only Part No. SCUDZR02	

SCA SINGLEMODE DUPLEX	
S07 (12 ports)	**With**
S07SCA04	4 adapters
S07SCA08	8 adapters
S07SCA12	12 adapters
Adapter only Part No. SCAPCUDGREEN	

LC QUAD SINGLEMODE	
S07 (12 port)	**With**
S07LQS04	4 adapters
S07LQS08	8 adapters
S07LQS12	12 adapters
Adapter only Part No. LCQUADBLUE	

LC QUAD MULTIMODE	
S07 (12 ports)	**With**
S07LQM04	4 adapters
S07LQM08	8 adapters
S07LQM12	12 adapters
Adapter only Part No. LCQUADBEIGE	

DID YOU KNOW

? FibreFab offers a wide variety of pigtails and modules to complement all patch panels, and panels can be supplied pre-loaded.

Contact our sales team!

INTERNAL MANAGEMENT

Specification:

Width:	Depth:	Height:	Weight:	Colour:
19¨(483mm)	8¨ (200mm)	1U (44mm)	2.6 kg fully loaded	Black RAL9004 (available in grey RAL7035).

1U Sliding Patch Panels

S09 1U, 24 Vertical Port Sliding Patch Panel
SC Duplex, LC QUAD

Unloaded panel : S09XXX00

24 Ports

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

The Optronics sliding tray optical fibre patch system in its basic form is supplied with the panels unloaded ready for you to install the adapter of your choice. The panel can also be pre-loaded complete with the required adapter and simple splice management kit, or supplied with pre-terminated cable to meet your project needs.

SC MULTIMODE DUPLEX	
S09 (24 ports)	**With**
S09SCM04	4 adapters
S09SCM08	8 adapters
S09SCM12	12 adapters
S09SCM16	16 adapters
S09SCM24	24 adapters
Adapter only Part No. SCUDPHBRBEIGE	

SC SINGLEMODE DUPLEX	
S09 (24 ports)	**With**
S09SCS04	4 adapters
S09SCS08	8 adapters
S09SCS12	12 adapters
S09SCS16	16 adapters
S09SCS24	24 adapters
Adapter only Part No. SCUDZR02	

SCA SINGLEMODE DUPLEX	
S09 (24 ports)	**With**
S09SCA04	4 adapters
S09SCA08	8 adapters
S09SCA12	12 adapters
S09SCA16	16 adapters
S09SCA24	24 adapters
Adapter only Part No. SCAPCUDGREEN	

LC QUAD SINGLEMODE	
S09 (24 ports)	**With**
S09LQS04	4 adapters
S09LQS08	8 adapters
S09LQS12	12 adapters
S09LQS16	16 adapters
S09LQS24	24 adapters
Adapter only Part No. LCQUADBLUE	

LC QUAD MULTIMODE	
S09 (24 ports)	**With**
S09LQM04	4 adapters
S09LQM08	8 adapters
S09LQM12	12 adapters
S09LQM16	16 adapters
S09LQM24	24 adapters
Adapter only Part No. LCQUADBEIGE	

DID YOU KNOW ?

Specification:

Width:	Depth:	Height:	Weight:	Colour:
19¨(483mm)	8¨ (200mm)	1U (44mm)	2.6 kg fully loaded	Black RAL9004 (available in grey RAL7035).

Can't find what you're looking for? Don't hesitate to contact us...

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1U Sliding Patch Panels

S13 1U, 3 Port Sliding Patch Panel
For all of your variations

Unloaded Panel : S13XXX00

Easy panel identification labelling

Cable entry 4 x 10mm gland holes
2 x 20mm gland holes

SC MULTIMODE SIMPLEX
L01 (8 ports/adapters)
L01SCM08
Adapter only Part No.SCUSPHBRBEIGE

SCA SINGLEMODE DUPLEX
L03 (6 port/adapters)
L03SCA06
Adapter only Part No. SCAPCUDGREEN

SC SINGLEMODE SIMPLEX
L01 (8 ports/adapters)
L01SCS08
Adapter only Part No. SCUSZR02
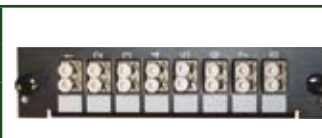
LC MULTIMODE DUPLEX
L01 (8 ports/adapters)
L01LCM08
Adapter only Part No. LCDPXBEIGE

SCA SINGLEMODE SIMPLEX
L01 (8 ports/adapters)
L01SCA08
Adapter only Part No. SCAPCUSGREEN

LC SINGLEMODE DUPLEX
L01 (8 ports/adapters)
L01LCS08
Adapter only Part No. LCDPXBLUE

SC MULTIMODE DUPLEX
L03 (6 ports/adapters)
L03SCM06
Adapter only Part No.SCUDPHBRBEIGE

LC-APC DUPLEX
L01 (8 ports/adapters)
L01LCA08
Adapter only Part No.LCAPCUDGREEN

SC SINGLEMODE DUPLEX
L03 (6 ports/adapters)
L03SCS06
Adapter only Part No. SCUDZR02BLUE

LC QUAD MULTIMODE
L03 (6 ports/adapters)
L03LQM06
Adapter only Part No. LCQUADBEIGE

INTERNAL MANAGEMENT

1U Sliding Patch Panels

S13 1U, 3 Port Sliding Patch Panel
For all of your variations

	LC QUAD SINGLEMODE
	L03 (6 ports/adapters)
	L03LQS06
	Adapter only Part No. LCQUADBLUE

	MTRJ
	L01 (8 port/adapters)
	L01MTM08
	Adapter only Part No. MTRJUNITER

	ST MULTIMODE
	L02 (8 port/adapters)
	L02STM08
	Adapter only Part No. STUPHBR

	E2000 MULTIMODE
	L01 (8 port/adapters)
	L01E2M08
	Adapter only Part No. E2UBEIGE

	ST SINGLEMODE
	L02 (8 port/adapters)
	L02STS08
	Adapter only Part No. STUZR02

	E2000 SINGLEMODE
	L01 (8 port/adapters)
	L01E2S08
	Adapter only Part No. E2UBLUE

	FC SINGLEMODE
	L02 (8 port/adapters)
	L02FCS08
	Adapter only Part No. FCUPHBR-D

	E2000-APC SINGLEMODE
	L01 (8 port/adapters)
	L01E2A08
	Adapter only Part No. E2APCUGREEN

	FCA SINGLEMODE
	L02 (8 port/adapters)
	L02FCA08
	Adapter only Part No. FCAPCUZR02-D

	BLANK PLATE
	L04

	FC MULTIMODE
	L02 (8 port/adapters)
	L02FCM08
	Adapter only Part No. FCUZR02-D

DID YOU KNOW ?
2 options available to load your panel S13: front plates (see above) or cassettes (page 80).

Contact our sales team!

Specification:

Width:	Depth: 8¨	Height:	Weight:	Colour:
19¨(483mm)	(200mm)	1U (44mm)	2.6 kg fully loaded	Black RAL9004 (available in grey RAL7035).

Can't find what you're looking for? Don't hesitate to contact us...

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INTERNAL MANAGEMENT

Removable Front Panels

Sliding Chassis

RF01

RF02

RF03

RF04

RF05

RF06
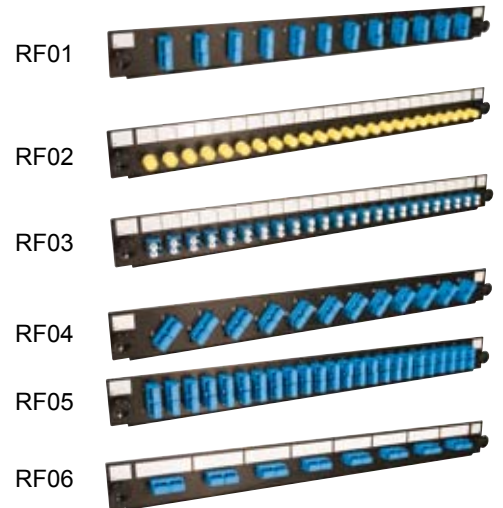
The new Optronics removable front panels chassis is a 19 inch 1U sliding panel in two parts: one sliding chassis and one front panel, which receives the optical adapters. Its primary advantage is the flexibility of its double composition, this allows you to maintain a stock of chassis and attach a suitable front panel as needed.

Description	Part No.
Chassis	SPANEL

Description	Part No.
12 vertical ports front panel SC Duplex / LC Quad	RF01
24 vertical ports front panel ST / FC	RF02
24 vertical ports front panel SC Simplex / LC Duplex / MTRJ / E2000	RF03
12 diagonal ports front panel SC Duplex / LC Quad	RF04
24 vertical ports front panel SC Duplex / LC Quad	RF05
8 horizontal ports front panel SC Duplex / LC Quad	RF06
Bag of screws for adapters (1000)	PANELSCREWBLACK

INTERNAL MANAGEMENT

To view our full range of products download our Fibre Management catalogue now at www.FibreFab.com.

Fixed Patch Panels

FibreFab offers you a wide range of fixed patch panels to complete our patch panel range. Different types of ports, heights and capacities are available.

1U Model
Description
F00 16 ports ST / FC
F01 24 ports ST / FC
F02 24 position SC / LC / MTRJ / E2000
F03 12 ports SC duplex / LC Quad
F05 8 ports SC duplex / LC Quad
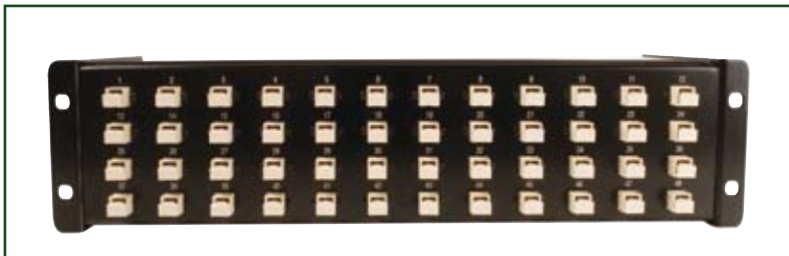
2U Model
Description
F06 48 ports SC / LC / MTRJ / E2000
F07 36 ports horizontal SC duplex / LC Quad
F09 48 ports ST / FC

3U Model
Description
F08 96 ports SC / LC / MTRJ / E2000
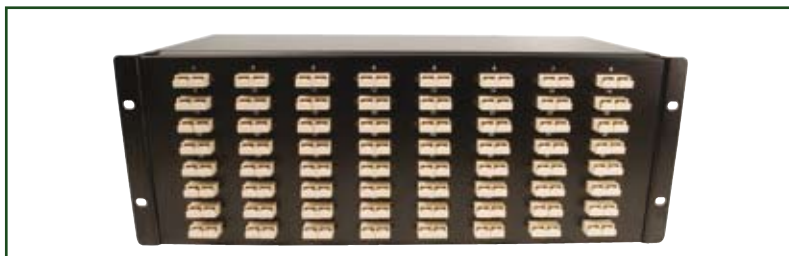
4U Model
Description
F10 64 ports horizontal SC duplex / LC Quad

F01

F02

F03

F06

F07

F09

Can't find what you're looking for? Don't hesitate to contact us...

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INTERNAL MANAGEMENT

19 Inch 3U Modular System

19 Inch 3U Chassis

The standard modular chassis is supplied unloaded, without modules. This chassis allows you to choose your ideal specification. It can be loaded with up to 14 modules, equipped with the adapters arranged vertically on the 3U chassis. A splicing cassette can be added to each module in order to manage the fibres. Each module is locked into the chassis with 2 easy to operate plastic catches.

Features

► Up to 14 modules in a 3U chassis

► 21 types of modules and also a blank module

► Simple and safe locking system with 2 catches.

Advantages

► High density: up to 224 fibres in a 3U chassis

► 19 inch standard size.

TECHNICAL SPECIFICATIONS	
Weight	3.23kg
Height	130mm (3U)
Width	430mm
Depth	280mm
Material	Cold rolled steel 1.2mm
Colour	Black RAL9005

DESCRIPTION	PART NO.
19 Inch 3U Chassis	LGXCHASSIS

DID YOU KNOW **?**

INTERNAL MANAGEMENT

19 Inch 3U Modular System

Adapter only Part No. SCUSPHBRBEIGE			
SC MULTIMODE SIMPLEX			
L01 (8 Adapters)			
L01SCM08/CAS			

	Adapter only Part No. SCUSZR02
SC SINGLEMODE SIMPLEX	
L01 (8 Adapters)	
L01SCS08/CAS	

Adapter only Part No. SCAPCUSGREEN
SCA SINGLEMODE SIMPLEX
L01 (8 Adapters)
L01SCA08/CAS

Adapter only Part No. MTRJUNITER
MTRJ
L01 (8 Adapters)
L01MTM08/CAS

Adapter only Part No. SCUDPHBRBEIGE
SC MULTIMODE DUPLEX
L03 (6 Adapters)
L03SCM06/CAS

Adapter only Part No. SCUDZR02BLUE
SC SINGLEMODE DUPLEX
L03 (6 Adapters)
L03SCS06/CAS

Adapter only Part No. SCAPCUDGREEN
SCA SINGLEMODE DUPLEX
L03 (6 Adapters)
L03SCA06/CAS

Adapter only Part No. STUZR02
ST SINGLEMODE
L02 (8 Adapters)
L02STS08/CAS

Adapter only Part No. STUPHBR
ST MULTIMODE
L02 (8 Adapters)
L02STM08/CAS

Adapter only Part No. LCQUADBLUE
LC QUAD SINGLEMODE
L03 (6 Adapters)
L03LQS06/CAS

Adapter only Part No. LCQUADBEIGE
LC QUAD MULTIMODE
L03 (6 Adapters)
L03LQM06/CAS

Adapter only Part No. LCDPXBEIGE
LC MULTIMODE DUPLEX
L01 (8 Adapters)
L01LCM08/CAS

Adapter only Part No. LCAPCUDGREEN
LC-APC DUPLEX
L01 (8 Adapters)
L01LCA08/CAS

Adapter only Part No. LCDPXBLUE
LC SINGLEMODE DUPLEX
L01 (8 Adapters)
L01LCS08/CAS

Adapter only Part No. E2APCUGREEN
E2000-APC SINGLEMODE
L01 (8 Adapters)
L01E2A08/CAS

Adapter only Part No. E2UBLUE
E2000 SINGLEMODE
L01 (8 Adapters)
L01E2S08/CAS

Adapter only Part No. E2UBEIGE
E2000 MULTIMODE
L01 (8 Adapters)
L01E2M08/CAS

Adapter only Part No. FCAPCUZR02-D
FCA SINGLEMODE
L02 (8 Adapters)
L02FCA08/CAS

Adapter only Part No. FCUZR02-D
FC SINGLEMODE
L02 (8 Adapters)
L02FCS08/CAS

Adapter only Part No. FCUPHBR-D
FC MULTIMODE
L02 (8 Adapters)
L02FCM08/CAS

BLANK
L04

INTERNAL MANAGEMENT

Can't find what you're looking for? Don't hesitate to contact us...

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Wall Boxes

The Optronics wall box system in its basic form is supplied with the box unloaded ready for you to install the adapter of your choice. The box can also be pre-loaded complete with the required adapter, or pre-loaded with pigtails to meet your project needs. The quality of construction that comes with the FibreFab range of wall boxes ensures a safe, secure and aesthetically pleasing wall box for your network.

Wall Boxes

W06 - Lockable 96 Position ST / FC Double Door Wall Box
Up to 96 Fibres

Ordering Information
Unloaded   W06XXX00

FC MULTIMODE	
W06 (96 Ports)	**With**
W06FCM24	24 adapters
W06FCM36	36 adapters
W06FCM96	96 adapters
Adapter only Part No. FCUPHBR-D	

ST SINGLEMODE	
W06 (96 Ports)	**With**
W06STS24	24 adapters
W06STS36	36 adapters
W06STS96	96 adapters
Adapter only Part No. STUZR02	

FC SINGLEMODE	
W06 (96 Ports)	**With**
W06FCS24	24 adapters
W06FCS36	36 adapters
W06FCS96	96 adapters
Adapter only Part No. FCUZR02-D	

ST MULTIMODE	
W06 (96 Ports)	**With**
W06STM24	24 adapters
W06STM36	36 adapters
W06STM96	96 adapters
Adapter only Part No. STUPHBR	

FCA SINGLEMODE	
W06 (96 Ports)	**With**
W06FCA24	24 adapters
W06FCA36	36 adapters
W06FCA96	96 adapters
Adapter only Part No. FCAPCUZR02-D	

DID YOU KNOW ?

Turn to page 112 for management accessories

Specification:

Width:	Depth:	Height:	Weight:	Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)	Grey RAL 7035

Cable entry 4 x 20mm gland holes

Can't find what you're looking for? Don't hesitate to contact us...

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Wall Boxes

W07 - Lockable 72 Position SC / LC / E2000 / MTRJ Double Door Wall Box Up to 144 Fibres

Ordering Information
Unloaded: W07XXX00

SC MULTIMODE SIMPLEX	
W07 (72 Ports)	**With**
W07SCM24	24 adapters
W07SCM36	36 adapters
W07SCM48	48 adapters
W07SCM72	72 adapters
Adapter only Part No. SCUSPHBRBEIGE	

MTRJ	
W07 (72 Ports)	**With**
W07MTM24	24 adapters
W07MTM36	36 adapters
W07MTM48	48 adapters
W07MTM72	72 adapters
Adapter only Part No. MTRJUNITER	

SCA SINGLEMODE SIMPLEX	
W07 (72 Ports)	**With**
W07SCA24	24 adapters
W07SCA36	36 adapters
W07SCA48	48 adapters
W07SCA72	72 adapters
Adapter only Part No. SCAPCUSGREEN	

LC SINGLEMODE DUPLEX	
W07 (72 Ports)	**With**
W07LCS24	24 adapters
W07LCS36	36 adapters
W07LCS48	48 adapters
W07LCS72	72 adapters
Adapter only Part No. LCDPXBLUE	

LC MULTIMODE DUPLEX	
W07 (72 Ports)	**With**
W07LCM24	24 adapters
W07LCM36	36 adapters
W07LCM48	48 adapters
W07LCM72	72 adapters
Adapter only Part No. LCDPXBEIGE	

E2000 SINGLEMODE	
W07 (72 Ports)	**With**
W07E2S24	24 adapters
W07E2S36	36 adapters
W07E2S48	48 adapters
W07E2S72	72 adapters
Adapter only Part No. E2UBLUE	

E2000 MULTIMODE	
W07 (72 Ports)	**With**
W07E2M24	24 adapters
W07E2M36	36 adapters
W07E2M48	48 adapters
W07E2M72	72 adapters
Adapter only Part No. E2UBEIGE	

E2000 APC	
W07 (72 Ports)	**With**
W07E2A24	24 adapters
W07E2A36	36 adapters
W07E2A48	48 adapters
W07E2A72	72 adapters
Adapter only Part No. E2APCUGREEN	

Specification:

Width:	Depth:	Height:	Weight:	Colour:
358 mm	121 mm	360 mm	6kg (fully loaded)	Grey RAL 7035

2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x Slotted cable exit, top and bottom.

INTERNAL MANAGEMENT

Wall Boxes

W08 - Lockable 48 Position SC Duplex / LC QUAD Double Door Wall Box
Up to 192 Fibres

Ordering Information
Unloaded: W08XXX00

LC QUAD SINGLEMODE	
W08 (48 Ports)	**With**
W08LQS18	18 adapters
W08LQS24	24 adapters
W08LQS48	48 adapters
Adapter only Part No. LCQUADBLUE	

SC MULTIMODE DUPLEX	
W08 (48 Ports)	**With**
W08SCM18	18 adapters
W08SCM24	24 adapters
W08SCM48	48 adapters
Adapter only Part No. SCUDPHBRBEIGE	

LC QUAD MULTIMODE	
W08 (48 Ports)	**With**
W08LQM18	18 adapters
W08LQM24	24 adapters
W08LQM48	48 adapters
Adapter only Part No. LCQUADBEIGE	

SCA SINGLEMODE DUPLEX	
W08 (48 Ports)	**With**
W08SCA18	18 adapters
W08SCA24	24 adapters
W08SCA48	48 adapters
Adapter only Part No. SCAPCUDGREEN	

SC SINGLEMODE DUPLEX	
W08 (48 Ports)	**With**
W08SCS18	18 adapters
W08SCS24	24 adapters
W08SCS48	48 adapters
Adapter only Part No. SCAPCUDGREEN	

Specification:

Width: :	Depth:	Height:	Weight:	Colour:
358mm	121mm	360mm	6kg fully loaded	Grey RAL7035

2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x slotted cable exit, top and bottom.

Can't find what you're looking for? Don't hesitate to contact us...

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Wall Boxes

W09 - 4 Position Modular Double Door Lockable Wall Box
Up to 96 Fibres

The W09 wall box offers you the flexibility of its construction. With 4 positions and a wide variety of modules for all types of adapter, it's a flexible solution allowing the management of many connections inside one compact, strong and practical box.

Ordering Information
Unloaded: W09XXX00

SC MULTIMODE SIMPLEX
L01 (8 ports/adapters)
L01SCM08
Adapter only Part No.SCUSPHBRBEIGE

SC SINGLEMODE DUPLEX
L03 (6 ports/adapters)
L03SCS06
Adapter only Part No. SCUDZR02BLUE

SC SINGLEMODE SIMPLEX
L01 (8 ports/adapters)
L01SCS08
Adapter only Part No. SCUSZR02

SCA SINGLEMODE DUPLEX
L03 (6 ports/adapters)
L03SCA06
Adapter only Part No.SCAPCUDGREEN

SCA SINGLEMODE SIMPLEX
L01 (8 ports/adapters)
L01SCA08
Adapter only Part No. SCAPCUSGREEN

LC MULTIMODE DUPLEX
L01 (8 ports/adapters)
L01LCM08
Adapter only Part No. LCDPXBEIGE

SC MULTIMODE DUPLEX
L03 (6 ports/adapters)
L03SCM06
Adapter only Part No.SCUDPHBRBEIGE

LC SINGLEMODE DUPLEX
L01 (8 ports/adapters)
L01LCS08
Adapter only Part No. LCDPXBLUE

INTERNAL MANAGEMENT

Wall Boxes

	LC-APC DUPLEX
	L01 (8 ports/adapters)
	L01LCA08
	Adapter only Part No.LCAPCUDGREEN

	LC QUAD SINGLEMODE
	L03 (6 ports/adapters)
	L03LQS06
	Adapter only Part No. LCQUADBLUE

	LC QUAD MULTIMODE
	L03 (6 ports/adapters)
	L03LQM06
	Adapter only Part No. LCQUADBEIGE

	MTRJ
	L01 (8 ports/adapters)
	L01MTM08
	Adapter only Part No. MTRJUNITER

	ST MULTIMODE
	L02 (8 ports/adapters)
	L02STM08
	Adapter only Part No. STUPHBR

	E2000 MULTIMODE
	L01 (8 ports/adapters)
	L01E2M08
	Adapter only Part No. E2UBEIGE

	ST SINGLEMODE
	L02 (8 ports/adapters)
	L02STS08
	Adapter only Part No. STUZR02

	E2000 SINGLEMODE
	L01 (8 ports/adapters)
	L01E2S08
	Radapter only Part No. E2UBLUE

	FC MULTIMODE
	L02 (8 ports/adapters)
	L02FCM08
	Adapter only Part No. FCUPHBR-D

	E2000-APC SINGLEMODE
	L01 (8 ports/adapters)
	L01E2A08
	Adapter only Part No. E2APCUGREEN

	FC SINGLEMODE
	L02 (8 ports/adapters)
	L02FCS08
	Adapter only Part No. FCUZR02-D

	BLANK PLATE
	LO4
	-

	FCA SINGLEMODE
	L02 (8 ports/adapters)
	L02FCA08
	Adapter only Part No. FCAPCUZR02-D

Specification:

Width: :	Depth:	Height:	Weight:	Colour:
358mm	121mm	360mm	6kg fully loaded	Grey RAL7035

2 x 20mm + 2 x 25mm cable entry, top and bottom; 1x slotted cable exit, top and bottom.

Can't find what you're looking for? Don't hesitate to contact us...

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Tamperproof Wall Boxes

The range of FibreFab tamperproof wall boxes can be supplied pre-loaded with your selected adapters or unloaded. These boxes are perfect for wall mounted applications within a network.

INTERNAL MANAGEMENT

Tamperproof Wall Boxes

TW01 - 8 Position Tamperproof ST / FC Wall Box, Up to 8 Fibres
TW02 - 16 Position Tamperproof ST / FC Wall Box, Up to 16 Fibres

TW01
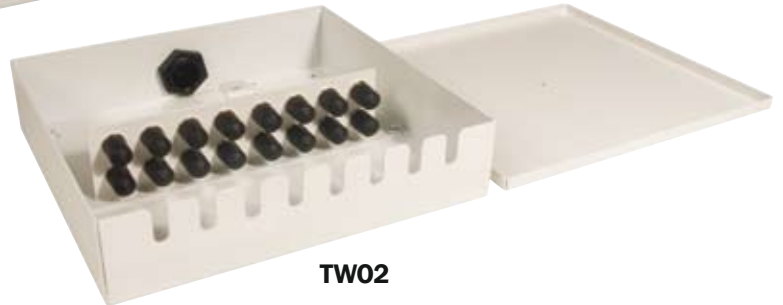
TW02

Ordering information

Unloaded TW01 : Ref TW01XXX00

Unloaded TW02 : Ref TW02XXX00

FC MULTIMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCM04	4 adapters	TW02FCM08	8 adapters
TW01FCM08	8 adapters	TW02FCM16	16 adapters
Adapter only Part No. FCUPHBR-D			

ST SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01STS04	4 adapters	TW02STS08	8 adapters
TW01STS08	8 adapters	TW02STS16	16 adapters
Adapter only Part No. STUZR02			

FC SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCS04	4 adapters	TW02FCS08	8 adapters
TW01FCS08	8 adapters	TW02FCS16	16 adapters
Adapter only Part No. FCUZR02-D			

ST MULTIMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01STM04	4 adapters	TW02STM08	8 adapters
TW01STM08	8 adapters	TW02STM16	16 adapters
Adapter only Part No. STUPHBR			

FCA SINGLEMODE			
TW01 (8 Ports)	With	TW02 (16 Ports)	With
TW01FCA04	4 adapters	TW02FCA08	8 adapters
TW01FCA08	8 adapters	TW02FCA16	16 adapters
Adapter only Part No. FCAPCUZR02-D			

Specification: TW01

Width:	Depth:	Height:	Weight:	Colour:
100 mm	40 mm	160 mm	0.6kg fully loaded	White

Cable entry 1 x 20mm gland holes

Specification: TW02

Width:	Depth:	Height:	Weight:	Colour:
172 mm	40 mm	160 mm	0.9kg fully loaded	White

Cable entry 1 x 20mm gland holes

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Tamperproof Wall Boxes

TW03 - 4 Position Tamperproof SC/LC/MTRJ/E2000 Wall Box - Up to 8 Fibres
TW04 - 8 Position Tamperproof SC/LC/MTRJ/E2000 Wall Box - Up to 16 Fibres
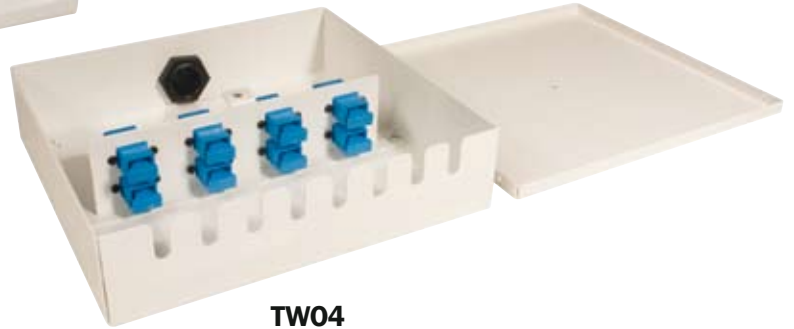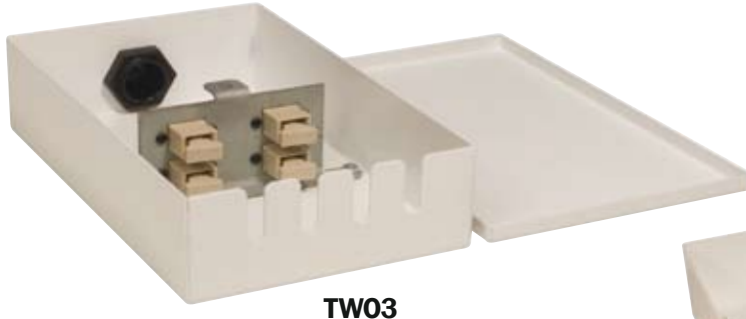
TW03

TW04

Ordering Information
Unloaded TW03 : Ref TW03XXX00
Unloaded TW04 : Ref TW04XXX00

SC MULTIMODE SIMPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03SCM02	2 adapters	TW04SCM04	4 adapters
TW03SCM04	4 adapters	TW04SCM08	8 adapters
Adapter only Part No. SCUSPHBRBEIGE			

MTRJ			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03MTM02	2 adapters	TW04MTM04	4 adapters
TW03MTM04	4 adapters	TW04MTM08	8 adapters
Adapter only Part No. MTRJUNITER			

SCA SINGLEMODE SIMPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03SCA02	2 adapters	TW04SCA04	4 adapters
TW03SCA04	4 adapters	TW04SCA08	8 adapters
Adapter only Part No. SCAPCUSGREEN			

LC SINGLEMODE DUPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03LCS02	2 adapters	TW04LCS04	4 adapters
TW03LCS04	4 adapters	TW04LCS08	8 adapters
Adapter only Part No. LCDPXBLUE			

LC MULTIMODE DUPLEX			
TW03 (4 Ports)	With	TW04 (8 Ports)	With
TW03LCM02	2 adapters	TW04LCM04	4 adapters
TW03LCM04	4 adapters	TW04LCM08	8 adapters
Adapter only Part No. LCDPXBEIGE			

Specification: TW03

Width:	Depth:	Height:	Weight:	Colour:
100 mm	40 mm	160 mm	0.6kg fully loaded	White

Cable entry : 1 x 20mm gland holes

Specification: TW04

Width:	Depth:	Height:	Weight:	Colour:
172 mm	40 mm	160 mm	0.9kg fully loaded	White

Cable entry : 1 x 20mm gland holes

INTERNAL MANAGEMENT

Tamperproof Wall Boxes

TW05 - 2 Position Tamperproof SC Duplex / LC QUAD Wall Box - Up to 8 Fibres
TW06 - 8 Position Tamperproof SC Duplex / LC QUAD Wall Box - Up to 32 Fibres
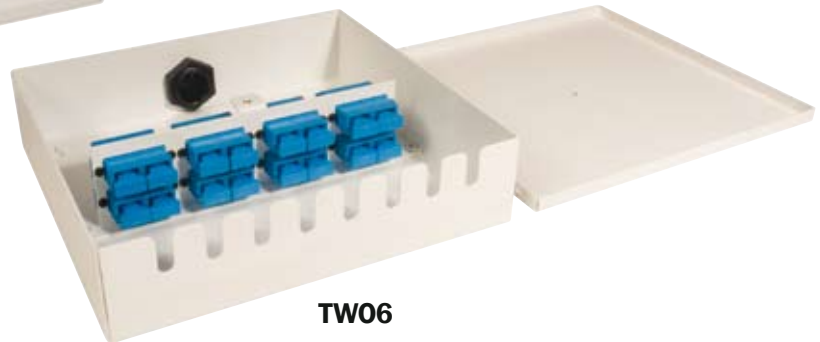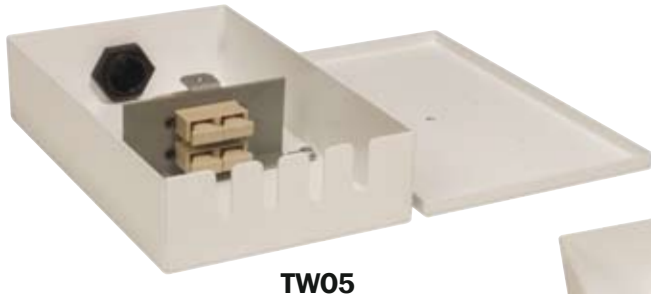
TW05

TW06

Ordering Information

Unloaded TW05 : Ref TW05XXX00
Unloaded TW06 : Ref TW06XXX00

SC MULTIMODE DUPLEX			
TW05 (2 Ports)	With	TW06 (8 Ports)	With
TW05SCM01	1 adapter	TW06SCM04	4 adapters
TW05SCM02	2 adapters	TW06SCM08	8 adapters
Adapter only Part No. SCUDPHBRBEIGE			

SC SINGLEMODE DUPLEX			
TW05 (2 Ports)	With	TW06 (8 Ports)	With
TW05SCS01	1 adapter	TW06SCS04	4 adapters
TW05SCS02	2 adapters	TW06SCS08	8 adapters
Adapter only Part No. SCUDZR02			

SCA SINGLEMODE DUPLEX			
TW05 (2 Ports)	With	TW06 (8 Ports)	With
TW05SCA01	1 adapter	TW06SCA04	4 adapters
TW05SCA02	2 adapters	TW06SCA08	8 adapters
Adapter only Part No. SCAPCUDGREEN			

LC QUAD SINGLEMODE			
TW05 (2 Ports)	With	TW06 (8 Ports)	With
TW05LQS01	1 adapter	TW06LQS04	4 adapters
TW05LQS02	2 adapters	TW06LQS08	8 adapters
Adapter only Part No. LCQUADBLUE			

LC QUAD MULTIMODE			
TW05 (2 Ports)	With	TW06 (8 Ports)	With
TW05LQM01	1 adapter	TW06LQM04	4 adapters
TW05LQM02	2 adapters	TW06LQM08	8 adapters
Adapter only Part No. LCQUADBEIGE			

Specification: TW05

Width:	Depth:	Height:	Weight:	Colour:
100 mm	40 mm	160 mm	0.6kg fully loaded	White

Cable entry : 1 x 20mm gland holes

Specification: TW06

Width:	Depth:	Height:	Weight:	Colour:
172 mm	40 mm	160 mm	0.9kg fully loaded	White

Cable entry : 1 x 20mm gland holes

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Slimline Wall Boxes

W16 - 12 Position Slimline Wall Enclosure
ST / FC / SC / LC / E2000 / MTRJ

Features

► Internal tie points
► Cable entry points can be knocked out to suit installation
► Solid construction with secure slam latch door
► Slim-line design for installation where space is limited
► Extended lid protects existing patchcords.

Advantages
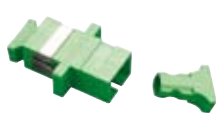
► 1.2mm cold rolled steel
► Degreased, phosphate dipped, powder coated
► Grey RAL7035
► Width: 315mm, Depth: 40mm, Height: 200mm
► Unloaded Weight: 1.5kg.

Ordering Information

Unloaded   W16XXX00

SC MULTIMODE SIMPLEX	
W16 (12 Ports)	With
W16SCM04	4 adapters
W16SCM08	8 adapters
W16SCM12	12 adapters
Adapter only Part No. SCUSPHBRBEIGE	

MTRJ	
W16 (12 Ports)	With
W16MTM04	4 adapters
W16MTM08	8 adapters
W16MTM12	12 adapters
Adapter only Part No. MTRJUNITER	

SCA SINGLEMODE SIMPLEX	
W16 (12 Ports)	With
W16SCA04	4 adapters
W16SCA08	8 adapters
W16SCA12	12 adapters
Adapter only Part No. SCAPCUSGREEN	

LC SINGLEMODE SIMPLEX	
W16 (12 Ports)	With
W16LCS04	4 adapters
W16LCS08	8 adapters
W16LCS12	12 adapters
Adapter only Part No. LCDPXBLUE	

LC MULTIMODE DUPLEX	
W16 (12 Ports)	With
W16LCM04	4 adapters
W16LCM08	8 adapters
W16LCM12	12 adapters
Adapter only Part No. LCDPXBEIGE	

E2000 SINGLEMODE	
W16 (12 Ports)	With
W16E2S04	4 adapters
W16E2S08	8 adapters
W16E2S12	12 adapters
Adapter only Part No. E2UBLUE	

E2000 MULTIMODE	
W16 (12 Ports)	With
W16E2M04	4 adapters
W16E2M08	8 adapters
W16E2M12	12 adapters
Adapter only Part No. E2UBEIGE	

E2000 APC	
W16 (12 Ports)	With
W16E2A04	4 adapters
W16E2A08	8 adapters
W16E2A12	12 adapters
Adapter only Part No. E2APCUGREEN	

Specification

Width:	Depth:	Height:	Weight:	Colour:
315 mm	40 mm	200 mm	1.5kg	Grey RAL7035

Cable entry 1 x 20mm gland holes

Termination Boxes

The FibreFab range of termination boxes are designed for use in residential and business applications, for the termination of fibre optic cable. The boxes can be supplied either unloaded or pre-loaded with specified adapters. A range of accessories for these products can be found at the end of this section.

These boxes are designed to be an answer to the solution needs of FTTx systems.

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Termination Boxes

Compact Termination Box

The compact termination box is designed for use in residential and business applications for the termination of up to four fibres. The wall box enables the installation of either a single Sirocco Blown Tube cable, using up to a 4 fibre blown unit, or two 2 ruggedised fibre cables to be spliced to four SC pigtails (PC or APC), which connect to adapters at the base of the unit.
The unit can be quickly installed within an office, house or communication room environment.

Specification

Number of splice trays:	1
Maximum fibre capacity:	4 Fibres
Maximum cable diameter (mm):	10 mm
Maximum no. of customer feeds:	4
Required space envelope (mm):	(l) 80 x (w) 120 x (d) 25
Operating temperature:	-20°C to + 50ºC (5 to 95% damp heat)
Material:	
• Cap:	FR High Impact Polystyrene
• Base:	FR High Impact Polystyrene
• Splitter trays:	FR High Impact Polystyrene
Testing:	
• Optical:	Tested 1310nm,1550nm and 1625nm
• Dry heat:	BS EN 60068-2-2 Test Bn
• Damp heat:	IEC 60068-2-3: 1969
• Change of temperature:	IEC 60068-2-14: 1984
• Vibration:	IEC 60068-2-6: 1995
• Shock:	IEC 60068-2-27: 1987
Packing dimensions (mm):	(w) 150 x (h) 50 x (d) 100
Packed weight (kg):	0.55
Net weight (kg):	0.50

Features

► Ergonomic design

► Designed to allow cables to enter from rear or bottom of the unit

► All fibres are positively managed to maintain a 30mm minimum bend radius

► Optional removable rear entry cable management

► Flip tray to allow access to pigtails and cable entry.

► Removable cover for easy access

► Tamperproof cover, security screws available as an option

► Unit manufactured from fire resistant UL94-V0 rated material

► Patchcords exit unit on bottom face and are protected by two covers

► Standard colour white. Other colours available on request.

Ordering Information

COMPACT TERMINATION BOX	
Description	Part No.
Compact termination box	CSB06

INTERNAL MANAGEMENT

Termination Boxes

Termination Box for Internal Use

The FibreFab internal termination box is designed for use in residential, small and large business premises. The unit houses a single splice tray, and allows fibres from internal or external cables to be spliced to pigtails for connection to the optical network unit. The unit can be quickly installed within a home, office or communication room environment. Internal or external cable can enter the unit from the bottom or through the side of the box.

Specification:

Number of splice trays:	1
Maximum fibre capacity:	12 Fibres
Maximum cable diameter (mm):	18
IP rating:	45
Required space envelope (mm):	(w) 220 x (h) 150 x (d) 50.
Operating temperature:	-20°C to + 50ºC (5 to 95% RH)
Material:	
• Wall Box:	FR ABS Light Grey RAL 7035
• Splice tray:	FR ABS Light Grey RAL 7035
Testing:	
• Optical:	Tested 1310nm,1550nm and 1625nm
• Dry heat:	BS EN 60068-2-2 Test Bb
• Damp heat:	IEC 60068-2-3: 1969
• Change of temperature:	IEC 60068-2-14: 1984
• Vibration:	IEC 60068-2-6: 1995
• Shock:	IEC 60068-2-27: 1987
Packing dimensions (mm):	(w) 230 x (h) 160 x (d) 60
Packed weight (kg):	0.55
Net weight (kg):	0.50

Features:

► Compact wall mounted unit typically used for residential, small and large business premises

► Removable cover for easy access

► Tamperproof cover security screws available as an option (refer to optional items)

► Unit manufactured from UL94-V0 rated material

► Tray cover provides circuit protection and contains fibre ID label

► Single hinged splice tray enables access for working

► Patchcords exit from the bottom of the unit

► Up to 12 SC type pigtails and adapters can be accommodated

► All fibres are positively managed to a 30mm minimum bend radius

► Easy cable entry points

► Optional resin pack allows box to be sealed against water/gas ingress

► Compatible with blown fibre products

► Sealed to remain IP rated.

Ordering Information

INTERNAL TERMINATION BOX	
Description	Part No.
Internal termination box	CSB04

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Termination Boxes

Termination Box for External Use

The termination box is designed for use on the external wall of residential or small business premises. The unit houses a single splice tray and allows fibres from externally fed cables (blown fibre or conventional) to be spliced to pigtails, for connection to the optical network unit. Pigtails or patchcords are routed through the external wall, via a rear entry/exit position, and are protected by 25mm diameter conduit. The unit can also be used as a transition point between internal and external cable.

Specification

Number of splice trays:	1
Maximum fibre capacity:	12 Fibres
Maximum cable diameter (mm):	18
IP rating:	55
Required space envelope (mm):	(w) 220 x (h) 150 x (d) 50.
Operating temperature:	-20°C to + 50°C (5 a 95% damp heat)

Material:
- Wall Box: FR ABS Dark Grey RAL 7035
- Splice tray: FR ABS Light Grey RAL 7035

Testing:
- Optical: Tested 1310nm,1550nm and 1625nm
- Dry heat: BS EN 60068-2-2 Test Bb
- Damp heat: IEC 60068-2-3: 1969
- Change of temperature: IEC 60068-2-14: 1984
- Vibration: IEC 60068-2-6: 1995
- Shock: IEC 60068-2-27: 1987

Packing dimensions (mm):	(w) 230 x (h) 160 x (d) 60
Packed weight (kg):	0.55
Net weight (kg):	0.50

Ordering Information

EXTERNAL TERMINATION BOX	
Description	Part No.
External termination box	CSB05

Features:

► Compact wall mounted unit typically used for residential and small business premises

► Removable cover fitted with seal that allows re-entry. Water ingress protection to IP55

► Tamperproof cover security screws available as an option (refer to optional items)

► Unit manufactured from UV resistant material

► Standard kit supplied complete with all components necessary to splice an external cable to four pigtails (for applications where 12 fibres are to be spliced (external to internal cable) extra splice protectors will be required)

► Rear cable entry/exit position allows pigtails or patchcords to enter the customer premises

► All fibres are positively managed to 30mm minimum bend radius

► Cable up to 13mm in diameter can be accommodated with a cable gland

► Cable interstices can be sealed against water/gas ingress at the entry/exit position if required using a quick set resin

► Compatible with Blown Fibre products

► Sealed to remain IP rated

► Easy cable access.

INTERNAL MANAGEMENT

Termination Boxes

Termination Box Accessories

Splice Protectors
Splice protectors are used to protect and join the glass fibre. They are 2.4mm in diameter, 45mm and 60mm in length. Only needed for applications where more than 4 splices are required.

Description	Part No.
45mm Splice Protector	SPLICE45CLEAR
60mm Splice Protector	SPLICE60CLEAR

Security Screw Kit
Provides secure, restricted access to prevent unauthorised entry.

Description	Part No.
Security Screw Kit	SECURESCREW

Sealant Kit
A kit containing a unique polyurethane sealant used for sealing the cable interstices within the unit. The sealant is dispensed from a hermetically sealed 170ml co-axial cartridge system. Once dispensed through the mixing nozzle and applied, the sealant transforms to an inert material.

Description	Part No.
Sealant Kit	SEAL01

Gas Seal Connector
Used for sealing a blown fibre tube. The connector simply fits over the tube providing a gas tight seal.

Description	Part No.
Gas Seal Connector	GASSEALCON

Customer Lead In Unit (CLI)
Used to guide the input fibre cable through the wall into the internal/external termination box.

Description	Part No.
Customer Lead In Unit	FIBRELEADIN

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INTERNAL MANAGEMENT

Wall Mounted Cabinets

A strong and robust 19" wall mounted cabinet. Fully ventilated with a lockable steel framed glass door for safety and security. Quick release hinges allow easy access to the cabinet for loading equipment and cables, lockable side panels allow access from both sides. Gland plate covers and cable strain relief positions are included on the top and bottom of the cabinet.

19 Inch Wall Mounted Cabinets

19 Inch Wall Mounted Cabinets

Quick release door

Lockable side panels

Sliding mounting angles

Side latch

Secure lock

Cable strain relief positions

Features

► 600mm wide
► 6U, 9U, 12U,15U, 18U and 22U 450mm deep
► 9U, 12U, 15U and 18U 600mm deep
► Sliding 19" mounting angles front and rear
► Standard ventilation top and bottom
► Vented framed door with safety glass
► Rear panel included
► Easy one man installation
► Heavy duty construction, 60kgs (UDL)
► Comes completely assembled
► Lockable side panels
► Door opens 180°, left or right hinged
► Built in cable strain relief positions.

Specification

► Top and base panel   1.2mm
► Side panels   1.2mm
► Framework   1.2mm
► 19" mounting angles   1.5mm
► Matching lock configuration on side panels
► Individual lock on front door
► Chassis support (L RAIL) Maximum load 20Kgs One pair included
► Material thickness 1.2mm.

Ordering Information

HEIGHT	DEPTH	WIDTH	WEIGHT	PART NO.
6U	450	600	20.5kg	WC016
9U	450	600	24kg	WC019
12U	450	600	27.5kg	WC0112
15U	450	600	31kg	WC0115
18U	450	600	36.5kg	WCO118
22U	450	600	41.5kg	WCO122

HEIGHT	DEPTH	WIDTH	WEIGHT	PART NO.
9U	600	600	28.5kg	WC029
12U	600	600	32.5kg	WCO212
15U	600	600	36kg	WC0215
18U	600	600	42 kg	WCO218

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19 Inch Wall Mounted Cabinets

6U = 368mm
9U = 501mm
12U = 635mm
15U = 767mm

600mm
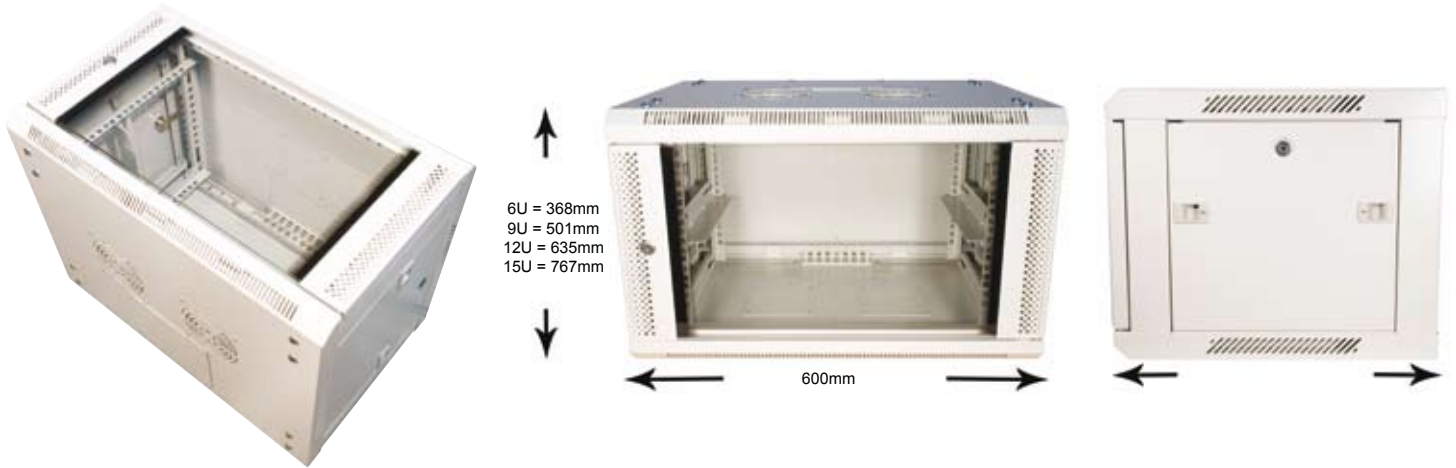
Specification

► Paint: degrease

► Phosphate dipped

► Powder coating RAL 7035

► UDL (Uniformly Distributed Load) 60 kg

► Degree of protection IP20

► Fan kit (Optional extra)
Up to two fans can be fitted to top or bottom cover.

Ordering Information

FAN KIT
2 x Fan   2 x Finger guard   1 x Lead   8 x Screws
Part No.: FANKIT1

Equipment Installation

► Drill and mount wall bracket into the desired position

Minimum of 5mm screws
Maximum of 8mm screws

► Simply lift cabinet onto the bracket hooks

► Secure to the bracket with internal screws.

70mm   330mm   70mm
530mm
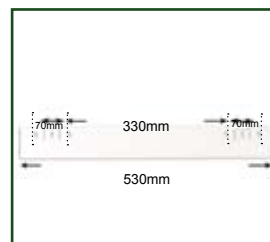
Wall mount bracket measurements

Wall mount bracket

Easy mounting

Internal fixing to ensure safety

INTERNAL MANAGEMENT

Floor Standing Cabinets

The new 19" floor standing cabinet range are high quality, competitively priced cabinets that offer real value for money in today's market.

All our cabinets combine a robust design and attractive styling, consisting of an aluminium frame chassis with glass or steel doors. All round access is available via removable side panels while front and rear doors have quick release pins for easy removal. Front and rear mounting angles are fully adjustable through the depth of the cabinet. An earthing kit and foam cable entry glands are included in the base.

These cabinets are ideal for office environments, data networking, broadcast, security and audio visual applications.

Features

- ► Very durable yet lightweight aluminium frame and corner castings
- ► Over 800kg UDL (Uniformly Distributed Load)
- ► Available in 600mm, 800mm and 1000mm widths
- ► Available in 27U, 37U, 42U and 47U heights
- ► Front and rear doors open 180°
- ► Adjustable feet and travel castors included
- ► Simply roll into place and jack level.

- ► Lockable side panels
- ► Multi function top panels
- ► Fully vented steel doors have >55% open area
- ► Optional safety glass, steel or vented doors
- ► U Position screen print as standard
- ► Bottom entry cable gland
- ► Earthing points and earthing kit included
- ► Black RAL9004.

To view our full range of products download our Optronics Cabinets Catalogue now at www.FibreFab.com.

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19 Inch Power distribution Units (PDU)

6 Socket Distribution Units

Mounting
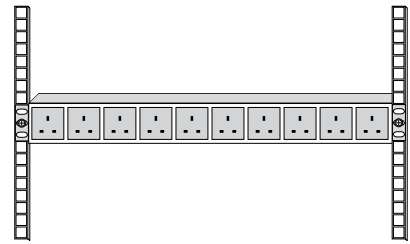
Standard 19" Horizontal PDU Configuration

▶ 19" rack mountable

▶ Left hand single power input

▶ 3.5m 1.5mm² power input cable

▶ Rating voltage 250VAC 50/630Hz

▶ CE approved

▶ RoHS compliant

▶ Length - 482.6mm.

Ordering Information

PLUG STYLE			SWITCHED	SOCKET STYLE				NUMBER OF SOCKETS		RATING CURRENT			MAX POWER			U SIZE	PART NUMBER
								4	6	10 Amp	13 Amp	16 Amp	2500W	3250W	4000W		
X			X	X				X			X			X		1.5	PDU01
X			X	X					X		X			X		1.5	PDU02
		X	X		X				X	X			X			1.5	PDU05
	X		X			X			X			X			X	1	PDU08
	X		X				X		X			X			X	1	PDU12

19 Inch Power distribution Units (PDU)
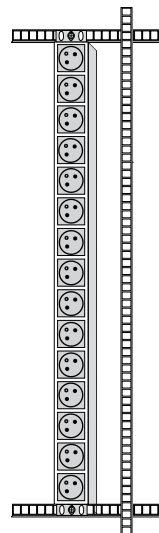
10 Socket Distribution Unit with Switch

Features

► 10 type E sockets

► 19" rack mountable

► On/off switch

► Primarily used in UK, France, Belgium, Poland, Slovakia, the Czech Republic, Tunisia and Morocco

► 10 sockets distribution units with switch.

15 Socket Distribution Unit with Switch

Features

► 15 type E socket

► 19" rack mountable

► On/off switch

► Primarily used in UK, France, Belgium, Poland, Slovakia, the Czech Republic, Tunisia and Morocco

► 15 sockets distribution units with switch.

Ordering Information

PLUG STYLE		SWITCHED	SOCKET STYLE			NUMBER OF SOCKETS		LENGTH	INPUT		SOCKET ANGLE	RATING CURRENT		MAX POWER		PART NUMBER
						10	15	mm	LEFT HAND	RIGHT HAND	45°	13 AMP	16 AMP	3250W	4000W	
x		x	x			x		809.5		x	x	x		x		PDU06
x		x	x			x		809.5	x		x	x		x		PDU07
x		x	x				x	1162		x	x	x		x		PDU03
x		x	x				x	1162	x		x	x		x		PDU04
	x	x		x		x		675	x				x		x	PDU10
	x	x		x			x	957	x				x		x	PDU11
	x	x			x	x		675	x				x		x	PDU13
	x	x			x		x	957	x				x		x	PDU14

External Management

- ▶ **IP Rated Wall Boxes**
- ▶ **Fibre Optic Enclosure**
- ▶ **Accessories**
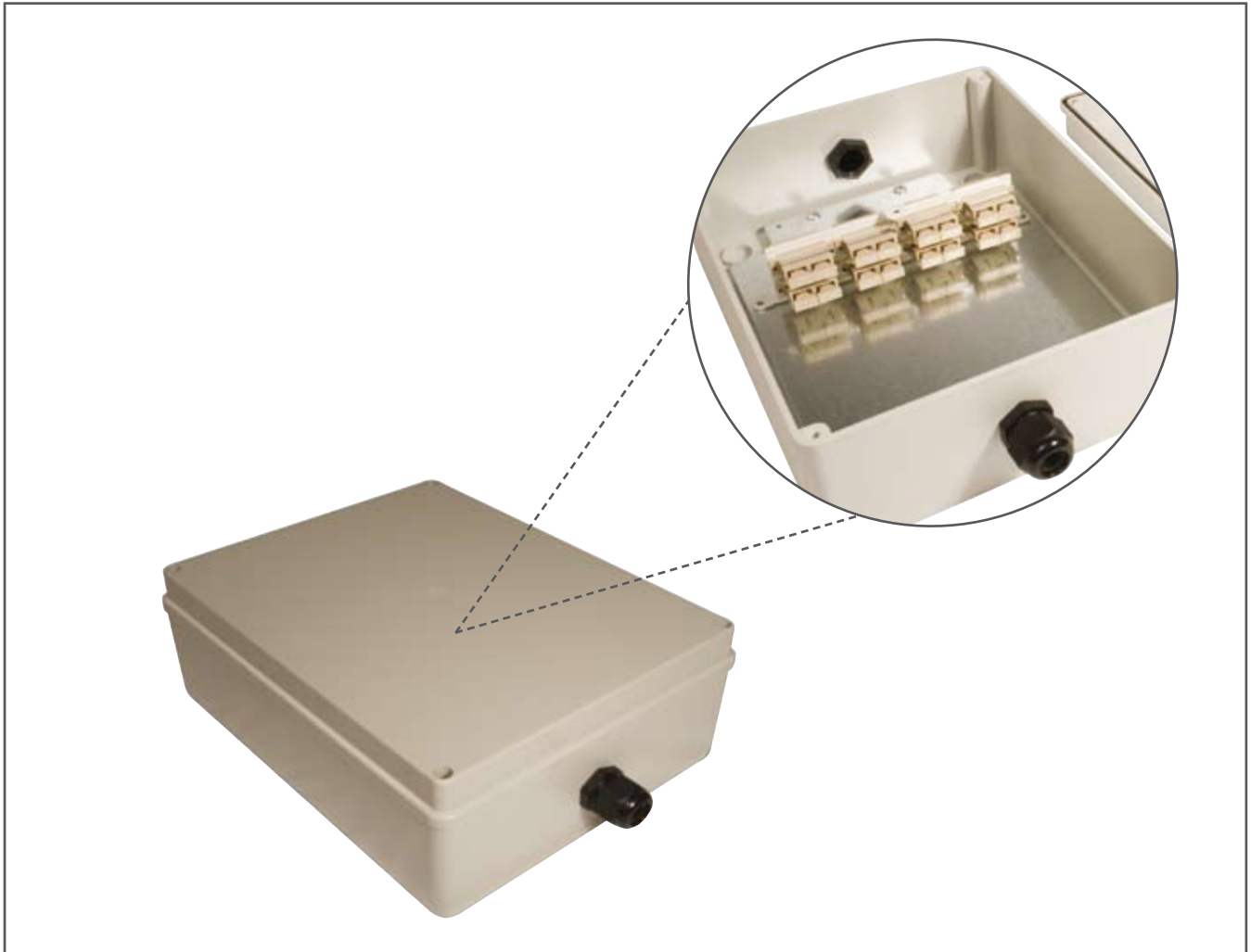
IP Rated Wall Boxes

The FibreFab range of IP rated wall boxes are constructed to comply with different levels of the Ingress Protection Rating Scheme. The boxes in their basic form are supplied unloaded ready for you to install the adapter of your choice. The box can also be pre-loaded complete with your required adapter and simple splice management kit, or pre-loaded with pigtails to meet your project needs.

To view our full range of products download our
Fibre Management Catalogue now at www.FibreFab.com.

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EXTERNAL MANAGEMENT

IP Rated Wall Boxes

IP01 - IP56 Rated 8 Position SC / LC / MTRJ Termination Box Up to 16 Fibres

Ordering Information
Unloaded IP01XXX00

SC MULTIMODE SIMPLEX	
IP01 (8 Ports)	**With**
IP01SCM04	4 adapters
IP01SCM08	8 adapters
Adapter only Part No.SCUSPHBRBEIGE	

SC SINGLEMODE SIMPLEX	
IP01 (8 Ports)	**With**
IP01SCS04	4 adapters
IP01SCS08	8 adapters
Adapter only Part No. SCUSZR02	

SCA SINGLEMODE SIMPLEX	
IP01 (8 Ports)	**With**
IP01SCA04	4 adapters
IP01SCA08	8 adapters
Adapter only Part No. SCAPCUSGREEN	

MTRJ	
IP01 (8 Ports)	**With**
IP01MTM04	4 adapters
IP01MTM08	8 adapters
Adapter only Part No. MTRJUNITER	

LC MULTIMODE DUPLEX	
IP01 (8 Ports)	**With**
IP01LCM04	4 adapters
IP01LCM08	8 adapters
Adapter only Part No. LCDPXBEIGE	

LC SINGLEMODE DUPLEX	
IP01 (8 Ports)	**With**
IP01LCS04	4 adapters
IP01LCS08	8 adapters
Adapter only Part No. LCDPXBLUE	

EXTERNAL MANAGEMENT

Specification:

Width:	Depth:	Height:	Colour:
190 mm	90 mm	240 mm	Grey RAL 7035

Cable entry 2 x 20mm gland holes

IP Rated Wall Boxes

IP02 - IP56 Rated 16 Position ST / FC Termination Box
Up to 16 Fibres

Ordering Information
Unloaded IP02XXX00
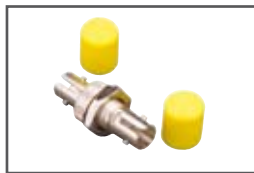
ST SINGLEMODE	
IP02 (16 Ports)	**With**
IP02STS08	8 adapters
IP02STS16	16 adapters
Adapter only Part No. STUZR02	

FC MULTIMODE	
IP02 (16 Ports)	**With**
IP02FCM08	8 adapters
IP02FCM16	16 adapters
Adapter only Part No. FCUPHBR-D	

ST MULTIMODE	
IP02 (16 Ports)	**With**
IP02STM08	8 adapters
IP02STM16	16 adapters
Adapter only Part No.. STUPHBR	

FC SINGLEMODE	
IP02 (16 Ports)	**With**
IP02FCS08	8 adapters
IP02FCS16	16 adapters
Adapter only Part No. FCUZR02-D	
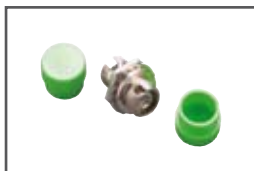
FCA SINGLEMODE	
IP02 (16 Ports)	**With**
IP02FCA08	8 adapters
IP02FCA16	16 adapters
Adapter only Part No. FCAPCUZR02-D	

Specification:

Width:	Depth:	Height:	Colour:
190 mm	90 mm	240 mm	Grey RAL 7035

Cable entry 2 x 20mm gland holes

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EXTERNAL MANAGEMENT

IP Rated Wall Boxes

IP03 and IP04 - IP56 Rated SC Duplex / LC QUAD Termination Box
Up to 32 Fibres

Ordering Information
Unloaded IP03XXX00

SC MULTIMODE DUPLEX	
IP03 (8 Ports)	**With**
IP03SCM04	4 adapter
IP03SCM08	8 adapters
Adapter only Part No. SCUDPHBRBEIGE	

SC SINGLEMODE DUPLEX	
IP03 (8 Ports)	**With**
IP03SCS04	4 adapters
IP03SCS08	8 adapters
Adapter only Part No. SCUDZR02	

SCA SINGLEMODE DUPLEX	
IP03 (8 Ports)	**With**
IP03SCA04	4 adapters
IP03SCA08	8 adapters
Adapter only Part No. SCAPCUDGREEN	

LC QUAD SINGLEMODE	
IP03 (8 Ports)	**With**
IP03LQS04	4 adapters
IP03LQS08	8 adapters
Adapter only Part No. LCQUADBLUE	

LC QUAD MULTIMODE	
IP03 (8 Ports)	**With**
IP03LQM04	4 adapters
IP03LQM08	8 adapters
Adapter only Part No. LCQUADBEIGE	

SLICE BOX IP04	
Part No.	**Slice number**
IP04CAS01	12
IP04CAS02	24
IP04CAS03	36
IP04CAS04	48
IP04CAS05	60

Specification:

Width:	Depth:	Height:	Colour:
190 mm	90 mm	240 mm	Grey RAL 7035

Cable entry 2 x 20mm gland holes

EXTERNAL MANAGEMENT

Fibre Optic Enclosure

Box Enclosure

The growing usage and application of high-speed communication networks together with high population density, demand the installation of high-fibre count optical fibre cable networks. However, the currently available optical fibre splice closures are deemed bulky and their installation complex and time consuming. The mini closure is acid and alkaline resistant. Furthermore, its airtight, waterproof design makes it ideal for applications in a damp environment. Since the casing material is recyclable, environmental pollution is minimized. The ease of installation is evident, a screwdriver is all you need from start to finish. In addition, for loose tube applications no heat shrinking work is required.

Applications
- ► Suitable for loose tube cables or slotted core ribbon cables
- ► Can be used in through, branch, or mid-span type splice locations
- ► Suitable for aerial, underground, duct, or buried applications.

Specification
- ► Manufactured from acid/alkaline-resistant and impact resistant polypropylene
- ► Working temperature range: - 40ºC to +80ºC
- ► Cable entry pulling strength: 30 kgs
- ► Compressive resistance: 3000 N.

Features
- ► All-in-one construction
- ► Compact and lightweight
- ► Acid and alkaline resistant
- ► Airtight and waterproof
- ► Simple installation
- ► Wall mounted
- ► Ideal for cable repair work
- ► Environmentally friendly.

Ordering Information

BOX ENCLOSURE	
Description	Part No.
BOX ENCLOSURE	24splicebox

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EXTERNAL MANAGEMENT

Fibre Optic Enclosure

Inline Enclosure

Integrated pressure valve

The inline enclosure is suitable for protecting fibre cable splices in straight through and branching applications. Its well-engineered, injection moulded outer body makes it impenetrable to the elements. It can protect splices and ensure reliability with usage in ambient temperatures from -40°C to +65 °C. It can be placed in aerial, underground, wall mounted, or duct mounted locations.

Features

► Holds 24 to 192 splice's

► Easy to re-enter

► 3 cable entry position at each end

► Termination and splice kit included

► Integrated seal, airtight and waterproof

► Ideal for cable repair

► RoHS compliant

► Can be used in through, branch or mid span splice locations

► Suitable for aerial, underground duct or direct burial applications.

Ordering Information

INLINE ENCLOSURE	
Description	**Part No.**
24 Splice Inline enclosure	INLINE01
48 Splice Inline enclosure	INLINE02
72 Splice Inline enclosure	INLINE03
144 Splice Inline enclosure	INLINE04
192 Splice Inline enclosure	INLINE05

Specification: (Height will vary as splice count increases)

24 to 71 Splice enclosure:	**Width:** 210 mm	**Depth:** 450 mm	**Height:** 90.5 mm	**Weight:** 2 kgs
144 to 196 Splice enclosure:	**Width:** 216 mm	**Depth:** 450 mm	**Height:** 150 mm	**Weight:** 3 kgs

Fibre Optic Enclosure

Dome Enclosure

The dome enclosure is suitable for protecting fibre cable splices in branching applications. Its well-engineered, injection-moulded outer body makes it impenetrable to the elements. It can protect splices and ensure reliability with usage in ambient temperatures from -40°C to +65 °C. It can be placed in aerial, wall mounted, or duct mounted locations.

Features

► Holds up to 144 fibres

► Easy to re-enter

► Cable entry/exit, 1 oval and 4 round

► Integrated pressure valve

► Termination and splice kit included

► Integrated seal, airtight and waterproof

► Ideal for cable repair

► RoHS compliant

► Can be used in through, branch or mid-span splice locations

► Suitable for aerial, underground duct or direct burial applications.

Ordering Information

INLINE ENCLOSURE	
Description	Part No.
48 Splice dome enclosure	DOME01
72 Splice dome enclosure	DOME02
96 Splice dome enclosure	DOME03
144 Splice dome enclosure	DOME04

Specification:

Width:	Depth:	Weight:
223 mm	450 mm	2.26 kgs

Cable entry/exit, 1 oval and 4 round.

EXTERNAL MANAGEMENT

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Fibre Optic Enclosure

Hinged Fibre Splice Enclosure

Pigtail entry | Test cable entry | Uncut cable entry | Cable entry

Features

► Opens via left hand hinge
► Muti cable entry points
► Integrated pressure valve
► Integrated earth point
► Holds up to 60 single fibres
► Integrated fibre management
► Mechanically sealed (compression).

Benefits

► Multi-functional splicing options
► Includes all splice protection
► Includes wall mounting bracket and fixings
► Can be pole mounted (optional extra)
► Can be aerial mounted (optional extra.)

Specification

Maximum single fibre count	60
Maximum fibres per tray	12
Maximum number of trays	5
Number of cable entry points	3
Suitable for cable diameters	8mm to 15mm Ø
Number of pigtail outlets	4
Suitable for pigtail diameter	2mm Ø
Number of uncut cable entry	1
Suitable for uncut cable diameter	8mm to 15mm Ø
Number of test outlets	1
Suitable for test cable diameter	6mm Ø
Sealing rating	IP68
Sealing method for all entry and exit	Mechanical (compression)
Height	300mm
Width	220mm
Depth	100mm
Weight	2.4kgs to 2.7kgs
Colour	Black
Material	ABS
RoHS compliant	Yes
Optimal operating temperature	-40 °C to +65 °C

Ordering Information

DESCRIPTION	Part No.
Hinged Fibre Splice Enclosure 12 splice	**DOME05**
Hinged Fibre Splice Enclosure 24 splice	**DOME06**
Hinged Fibre Splice Enclosure 36 splice	**DOME07**
Hinged Fibre Splice Enclosure 48 splice	**DOME08**
Hinged Fibre Splice Enclosure 60 splice	**DOME09**

Optional Extra	Part No.
Pole Mounting Kit	**POLEKIT**
Aerial Mounting Kit	**AERIALKIT**

EXTERNAL MANAGEMENT

Accessories

Cable Management

SPLICE TRAY AND LID

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

(Splice holders are not included, see below for part numbers)
Width : 80mm *Length:* 155mm *Height:* 7mm
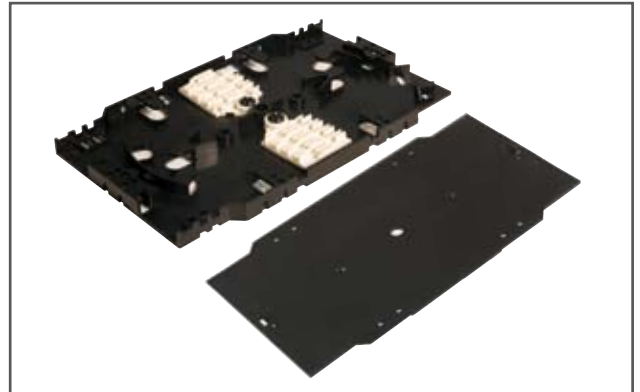
SPLICE TRAY SPLICE HOLDERS AND HINGES

Description	Part No.
Splice Holder For Heat Shrink Splice	SPLICEHOLDER1
Splice Tray Hinge *Width:* 25mm *Length:* 25mm *Height:* 6mm	BUCKLE
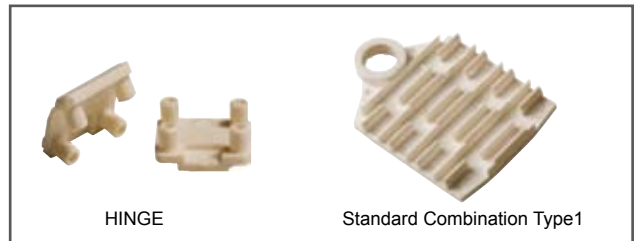
HINGE   Standard Combination Type1

SPLICE BRIDGE AND SPLICE LID

Description	Part No.
Splice Bridge	SPLICEBRIDGE

Width: 37mm *Length:* 95mm *Height:* 16mm
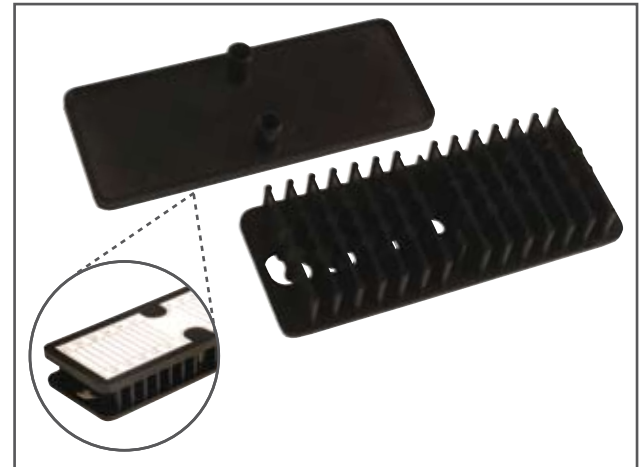
SPLICE CASSETTE WITH CLEAR LID

Description	Part No.
2 x 6 way stackable splice cassette complete with clear lid.	SPLICE12BASEUNIT
Additional 2 x 6 way stackable splice cassette complete with clear lid.	SPLICECASSETTE12

(Cassettes are hinged to one side)
Width: 90mm *Length:* 160mm *Height:* 7mm

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EXTERNAL MANAGEMENT

Accessories

CABLE MANAGEMENT KIT

Description	Part No.
Cable Management Kit	CABLEMANAGEMENT
1X Self adhesive splice bridge	
8X Self adhesive bunny clips	
1X Cable gland (13.5mm)	
1X Safety sticker	

BUNNY CLIPS

Description	Part No.
Cable management bunny clip with peel-off adhesive underside.	118-68C

CABLE GLAND

Description	Part No.
Cable Gland 6 to 12mm Diameter	EG13.5GLAND
Cable Gland 12-14mm Diameter	EG13.5GLAND/LG
Fits 20mm patchpanel hole and accommodates cable up to 13.5 Diameter.	

FRONT MOUNTED QUICKNUT

Description	Part No.
Captive cage nut and bolt, easy installation from the front.	CAGENUT

BRUSH STRIP

Description	Part No.
1U Brush Strip	1UBRUSHSTRIP03
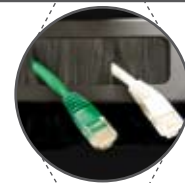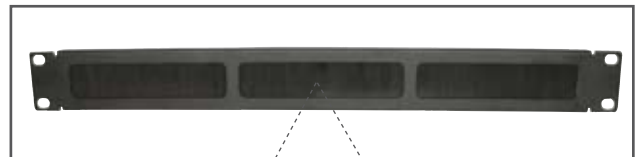
1U CABLE BAR WITH BRUSH STRIP

Description	Part No.
1U Cable Bar with Brush Strip	1UCABLEBAR/BR
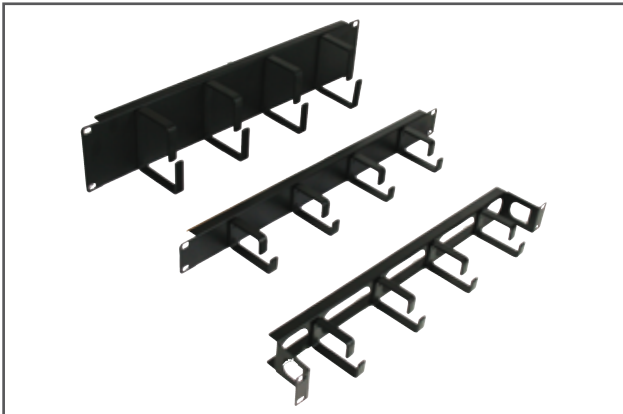
CABLE MANAGEMENT BAR

Description	Part No.
Cable management bar 1U	1UCABLEBAR
Cable management bar 1U GREY	1UCABLEBAR/G
Cable management bar 2U	2UCABLEBAR
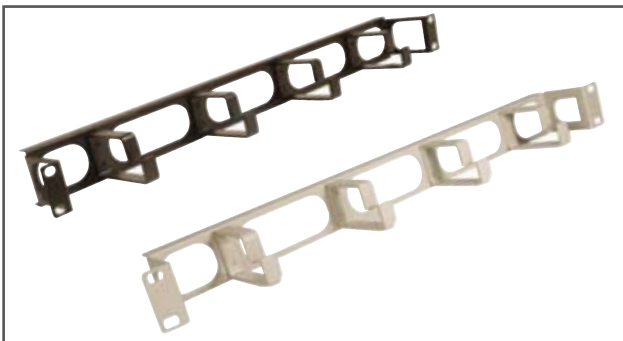
RECESSED CABLE MANAGEMENT BAR

Description	Part No.
Recessed cable management bar BLACK	1UCABLEBAR/REC
Recessed cable management bar GREY	1UCABLEBAR/REC/G

BLANKING PLATES

Description	Part No.
1U blank plate	1UBLANK
2U blank plate	2UBLANK
3U blank plate	3UBLANK

Removable rear panel section

REAR CABLE ENTRY OPTIONS FOR SLIDING PANELS

Description	Part No.
MPO hole panel plate	CMB08
20mm gland hole panel plate	CMB09
25mm gland hole panel plate	CMB10
Blown fibre hole panel plate	CMB11

Our sliding patch panels include a removable rear section enabling you to install several options of cable entry:

► MPO
► Extra 20mm or 25mm gland holes
► Blown fibre cable entry
► A selection of options made to order

Removing the panel completely allows you to install larger diameter cable such as steel-tape-armoured. The cable can be installed directly into the panel, and using the cable tie positions, the strength member can be secured, directly to the sliding tray.

Rear panel plate options

114

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EXTERNAL MANAGEMENT

Tools and Test Equipment

- ▶ **Optronics Tools and Other Brands**
- ▶ **Termination Kits**
- ▶ **OTDR**
- ▶ **Dead Zone Eliminator**
- ▶ **OPTM Fibre Optic Loss Test Kit**
- ▶ **Visual Fault Locator/ OPTVFL**

Optronics Tools and Other Brands

OPTRONICS TOOLS
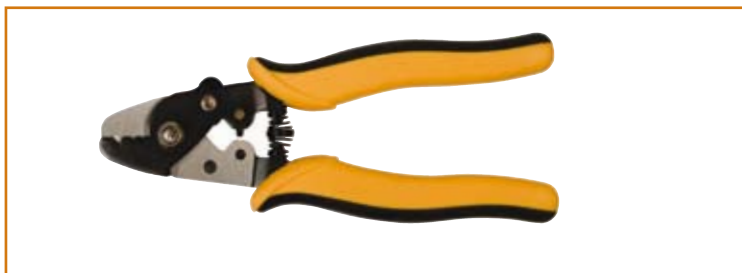
EASY HANDLE STRIPPER

Description	Part No.
Easy Handle Stripper	OPT-FOS

This hard wearing, easy to handle fibre optic stripping tool includes three stripping guides for: 2mm outer jacket, 900µm Buffer, and 250µm acrylic coating, Safety catch and factory set adjuster.

JACKET STRIPPER

Description	Part No.
Jacket Stripper	OPT-CS

Ideal for stripping jackets from backbone cable between 4.5mm and 25mm in diameter. A small rotating blade accurately splits the circumference of the jacket, then by flicking a switch, the same blade will rotate 90° and is used to split the jacket down one side for easy removal.

CARBIDE PEN CLEAVER

Description	Part No.
Carbide Pen Cleaver	OPT-CPC

This well presented pen-style scribe, uses a 30° wedge shaped carbide tip. Its design makes for quick and precise cleaving of optical fibre.

KEVLAR SCISSORS

Description	Part No.
Kevlar® Scissors	OPT-KS

These light-weight shears are ideal for cutting the Kevlar® strength members found in fibre optic cables. Ergonomic, moulded handles provide comfort for both right and left-handed users. The one micro-serrated blade reduces slipping for more positive cutting action. Length: 140mm Weight: 79g.

UNIVERSAL CRIMP TOOL

Description	Part No.
Fibre Optic Crimp Tool	OPT-FOCT

This professional ratchet-style crimping tool is constructed of solid steel. The rubber handle provides a firm grip and includes a ratchet mechanism for consistent crimping.
Crimp Specifications:
.78" / .151" / .128" / .78" / .068" / .042"
(4.52 / 3.84 / 3.25 / 2.0 / 1.72 / 1.07mm)

Kevlar is a registered trademark of DuPont

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TOOLS & TEST EQUIPMENT

Optronics Tools and Other Brands

OPTRONICS TOOLS

UNIVERSAL STRIPPER

Description	Part No.
Universal Data Stripper	OPT+UTPS

This tool is ideally used for stripping the jacket from round data cable such as UTP and STP. With an adjustable blade it will strip from 3.2mm to 9mm on flat cable, irregular out of shape cable or even multi-conductor cable.
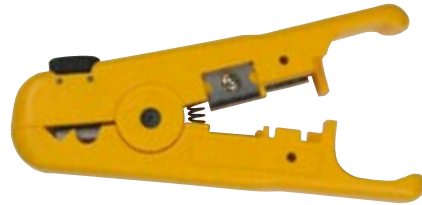
UTP/STP CYCLOPS STRIPPER

Description	Part No.
Cyclops Stripper	OPT+CYCLOPS

An outer sheath stripper for all types of data, audio and fibre optic cables. Completely automatic, no adjustments required. For cables up to 11mm in diameter.

MODULAR CRIMP TOOL

Description	Part No.
Modular Crimp Tool	OPT-RJCT

A compact, lightweight and durable tool which can be used to crimp RJ45, RJ12 or RJ11 connectors onto data cable. In addition to crimping it can also be used to cut and strip round cable - although we recommend you use OPT+UTPS to perform this particular task.

IMPACT PUNCH DOWN TOOL

Description	Part No.
Impact Punch Down Tool	OPT+IPPT-S
Spare Scissor Blade	OPT+IPDT-SB

The impact punch down tool comes with an adjustable Hi-Lo pressure selector. The hook and tracer makes tracing and removing wires easy, and the twist lock style holder gives the ability to quickly and safely change blades.

NETWORK TESTER

Description	Part No.
Network tester	OPT+NT

This basic level network tester will comprehensively test each twisted pair through RJ45 or RJ11 connectors. An easy red and green light system will notify you of which pairs are fully functional and which are faulty. Comes with remote end terminator for testing links and patchcords. Requires 1X 9V battery (not included).

Optronics Tools and Other Brands

CLAUSS FIBRE OPTIC STRIPPER

Description	Part No.
Quality fibre optic cable stripper	CFS-2

The CF2-2 stripper incorporates two holes for stripping fibre optic cable. The first size accurately removes 250μm coatings and 900μm buffer tube. The second hole is able to strip cable jackets up to 3mm diameter.

MILLER TRI-HOLE FIBRE OPTIC STRIPPER 1

Description	Part No.
Tri-hole fibre optic cable stripper	FO103-T-250-J

The tri-hole fibre optic stripper is an exceptional tool, recommended for stripping 250μm coated loose tube fibre and 900μm buffer tube. This stripper has a .0055" (0.14mm) laser drilled hole, soft plastic cushioned handle grip, and super accurate hardened stripping jaws ensuring a clean smooth stripping action.

MILLER DUAL-HOLE FIBRE OPTIC STRIPPER 2

Description	Part No.
Dual-hole fibre optic stripper	FO103-D-J

The FO103-D-J A 140μm diameter hole and V-opening in the blade make this tool ideal for stripping 250μm buffer coating, to expose 125μm cladded fibre. A second hole strips 2-3mm fibre jackets. It is pre-set at the factory so no adjustments are needed.

MILLER FIBRE OPTIC STRIPPER

Description	Part No.
Miller V-hole fibre optic strippers	FO103-S

These factory set strippers require no adjustment and prevent scratching or nicking of optical fibre. All cutting surfaces are precision formed, hardened, tempered and ground, assuring precise buffer removal.

NO-NIK FIBREOPTIC STRIPPER

Description	Part No.
NO-NIK 200μm fibre optic stripper	NN203

In a single short stroke the red handle removes 900μm buffer tube and the 250μm or 500μm fibre coating on tight buffer cable.

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Optronics Tools and Other Brands

ABECO "CC" SERIES CABLE CUTTER / STRIPPER

Description	Part No.
Cable cutter	CC60

These durable cable cutters are designed to strip solid and stranded copper and aluminium conductor. Constructed of high quality carbon steel the preformed rounded jaws automatically position for optimum cutting.

ABECO JACKET STRIPPING TOOL

Description	Part No.
Jacket stripping tool	MK02

This stripper can be used on 4.5 to 28.5mm cable insulations and has an adjustable cutting depth of 3mm, as well as alternative blade options to suit different jacket types. Its stripping action is both circumferential and longitudinal, for the removal of insulation or mid span wires.

ABECO JACKET STRIPPING TOOL

Description	Part No.
Jacket stripping tool	MK01A

Designed for precision stripping of a variety of insulation types including rubber, PVC, nylon, cotton and coaxial cables from 8mm to 25mm diameter. Its stripping action is both circumferential and longitudinal for the removal of insulation or mid-span wires.

RIPLEY MAGNI TWEEZERS

Description	Part No.
Magni tweezers	MT-1

This handy stainless steel tool is specifically suited to fibre optic applications. Its integral magnifier improves ability to work with small fibre optic segments.

MILLER KEVLAR SHEARS

Description	Part No.
Kevlar® shears	KS-1

These lightweight shears are perfect for cutting Kevlar® strength members. The blades are made from high carbon molybdenum and vanadium steel for a long life and a precise, neat cut.

Kevlar is a registered trademark of DuPont

Termination Kits

Cold Cure and Heat Curing Fibre Termination and Inspection Kits

OPTRONICS TOOLS

Cold Cure Kit Contents

Heat Curing Kit Contents

The Optronics cold cure fibre termination and inspection kit, is a much needed and valuable piece of kit for anyone who wishes to terminate fibre using the cold cure method. The Optronics heat curing fibre termination and inspection kit is a much needed and valuable piece of kit for anyone who wishes to terminate fibre using the heat cure method, it uses the high quality temperature curing epoxy from ResinTech, in conjunction with a Fibretron curing oven. These kits are suited for anyone who is competent at terminating fibre. Each kit contains the Optronics range of tools (contents listed below). An inspection scope also comes as standard. All items are packed into their own cut-foam compartment to keep them safe from damage, and all are presented in a very robust, virtually indestructible, yet stylish case, ideal for such fragile equipment.

Optronics has recently updated and modernised their range of tool kits. They are a must-have for any installer in the fibre optic industry. Our kits now come loaded with the high quality and very popular range of OptronicsTools, giving the user comfort in the knowledge that they are using a superior tool with a consistent quality in performance which is critical in our industry today. The excellence of the OptronicsTools is also represented in the tool case which the tools are presented in.

The tool cases themselves are IP67 rated, and are normally used in military applications, therefore, you can be assured that they have passed rigorous tests. Our cases offer the following features and benefits:

▶ Airtight
▶ High thickness body material
▶ Crush & Shock proof
▶ Watertight and waterproof
▶ Interstackable
▶ Sand and dust proof
▶ Can withstand temperatures between -33 & +90 °C

The inserts are made from a very dense foam which will not absorb any liquid that may be spilled. This is ideal for protecting any fragile equipment contained in the kit. The foam inserts have been routed via a computerised method, this allows the contents to fit perfectly, in their own special areas, ensuring maximum security from possible damage.

In addition to the standard kits, we also offer a customization programme for those who wish to really put their own mark on the kit and decide exactly how the contents should be made up. (MOQ, price variations and lead times will apply).

Kit Contents

ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY
Inspection Scope (x200 mag)	1	Carbide Pen Scribe	1	2ml Syringe	5
Fibre Optic Stripper (Tri Hole)	1	Fluid Dispenser	1	Lint Free Tissue	1 pack (100 sheets)
Kevlar Scissors	1	Sin Bin	1	Lapping Film (0.3 / 1.0 / 5.0µm)	15 (5 of each µm)
Fibre Optic Crimp Tool	1	1.25mm Polishing Puck	1	Glass Polishing Plate	1
Cable Ringing Tool	1	2.5mm Polishing Puck	1	Cold Cure Epoxy*	5
Universal Stripping Tool	1	1" Yellow Syringe Tips	5	Termination Oven**	1

Ordering Information

DESCRIPTION	PART NO.	DESCRIPTION	PART NO.
Cold Cure Kit	OPT-COLDKIT	Heat Curing Kit	OPT-HEATKIT

*Only available with Cold Cure Kit OPT-COLDKIT

**Only available with Heat Curing Kit OPT-HEATKIT

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Termination Kits

Installers Tool Kit

The Optronics network installer kit is a must have for anyone who is terminating a copper network. It contains all the essential tools needed for copper installation. It is suited to all levels of users, from an apprentice, right up to an experienced engineer. The kit contains the Optronics range of tools (contents listed below). The tools are packed into their own cut foam compartments and all are presented in a robust, virtually indestructible, yet stylish case.

Optronics has recently updated and modernised their range of tool kits. They are a must have for any installer in the copper industry. Our kits now come loaded with the highest quality OptronicsTools, giving the user comfort in the knowledge that they are using a superior tool with a consistent quality and performance, which is critical in our industry today. The excellence of the OptronicsTools is also represented in the tool case, which the tools are presented in.

The tool cases themselves are IP67 rated and are normally used in military applications therefore you can be assured that they have been through and passed rigorous tests. Our cases offer the following features and benefits:

- ► Airtight
- ► Interstackable
- ► High thickness body material
- ► Crush proof
- ► Corrosion proof
- ► Watertight and waterproof
- ► Shock proof
- ► Sand and dust proof
- ► Can withstand temperatures between -33 & +90 °C

The inserts are made from a very dense foam which will not absorb any liquid that may be spilled. This is ideal for protecting any fragile equipment contained in the kit. The foam inserts have also been routed via a computerised method, this allows the contents to fit perfectly in their own special areas, ensuring maximum security from possible damage. The two-tone effect allows for the easy identification of missing tools.

In addition to the standard kits, we also offer a customization programme for those who wish to really put their own mark on the kit, and decide exactly how the contents should be made up. (MOQ, price variations and lead times will apply)

Kit Contents

ITEM	QUANTITY
Network Cable Tester	1
Precision Wire Cutters	1
Wire Cutter and Stripper	1
Cable Cutter	1
UTP Stripper	1

ITEM	QUANTITY
Modular Crimp Tool	1
Non Impact Punch Down Tool with Krone Blade	1
Alternative Punch Down Blade for 66, 110/88	1
Cat5e RJ45 Plugs	50
Junior Hack Saw	1

ITEM	QUANTITY
5m Tape Measure	1
Cross Head Screwdriver	1
Flat Head Screwdriver	1
Label Markers + Dispenser	1
Cable ties	100

Ordering Information

DESCRIPTION	PART NO.
Network Installers Tool Kit	OPT+INSTALLKIT

Multimode and Singlemode OTDR

MM OTDR Port | Infrared Printer Interface | SM OTDR Port

Power Meter Detect Port

VFL Port
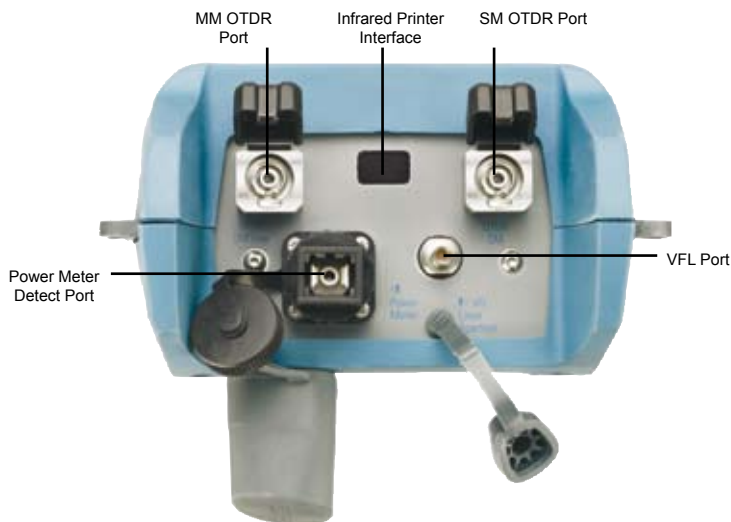
A user friendly multimode and singlemode OTDR specifically designed for testing and trouble-shooting on enterprise, campus and access networks. The OTDR's robust construction and long battery life make it ideal for use in the field.
A single button push starts a test, making it simple to use for the beginner or expert. The result is then shown as a trace or table-of-events in full colour, making for uncomplicated location of faults on fibre cable. By transferring the results to a USB memory stick, or directly to PC via the USB port, easy management of the results can be achieved using the free software provided.
Improved fibre testing capability can be achieved by adding the optional power meter, visual fault locator and connector end-face inspection probe. This ensures that the Optronics OTDR is a truly versatile fibre optic test instrument.

Features & Benefits

► 850/1300nm wavelengths for multimode
► 1310/1550nm wavelengths for singlemode
► Internal memory for up-to 500 results
► 8 hour battery life
► Transreflective colour screen
► One touch testing.

► 6 languages: English, French, German, Spanish, Russian and Chinese
► Optional VFL, power meter or Inspection probe
► SC, ST & FC ports available

Specification

	MULTIMODE	SINGLEMODE
Wavelength	850/1300nm	1310/1550nm
Dynamic Range	20/20dB	25/24dB
Event Dead Zone	3.5m	3m
Attenuation Dead Zone	12/12m	12/13m
Sampling Points	Over 30,000	
Distance Range	5km	50km
Internal Memory	500 Results	
OTDR Port Connector	SC	
Size (H x W x D)	250mm x 125mm x 75mm	
Weight	1kg	
Operating Temperature	-18 °C to 50°C	
Battery	2 x Li-ion batteries 8 hours continuous use	

*All specifications valid at 23.C ± 2.C with an FC/PC connector. Dynamic range using 10µs pulse and 3min averaging at SNR=1. MM dynamic range is specified for 62,5µm fibre. Dead zones with a -45dB reflection for SM, with a -35dB reflection for MM, using the shortest pulse.

DID YOU KNOW
?
Optronics also offers a complete range of cleaning products for your OTDR.
See page 129

TOOLS & TEST EQUIPMENT

Can't find what you're looking for? Don't hesitate to contact us...

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OTDR

Power Meter

Adding the power meter to the OTDR gives the flexibility of two testers in one. It can be used in conjunction with an external light source to measure the loss of fibres, or by means of looping back the OTDR can be used as both light source and power meter. The power meter covers the range from 800nm to 1650nm, offering a power range of -60 to 26dBm. The power meter also comes with a very cost effective three year calibration interval. An SC connector adaptor is supplied as standard, other interfaces are available.

Inspection Probe

The inspection probe option gives you superior vision into your fibre optic network by enabling you to inspect all types of connector end faces in switches, routers, interface cards, patch panels, wall outlets and patchcords. It saves time by eliminating the need to access the back of patch panels or disassemble hardware devices for inspection. Instead of removing each individual fibre, you only need to insert the video probe to inspect the end-face while it is still in place. This is the only practical way to inspect many hardware devices, where disassembly is not a realistic option. A clear image is displayed on the screen of the OPT OTDR, enabling a quick and easy review of any potential problems. The image can be saved and downloaded for future documentation purposes.

VFL

The visual fault locator option provides a visible 650nm red laser with a universal 2.5mm ferrule adaptor, with continuous and flashing modes. The VFL will verify continuity and polarity of installed links, which will help to speed up installation time. It can also be used to locate breaks and excessive bends in fibres, connectors and splices where they are terminated into patch panels, ensuring that fibre management is carried out correctly. Problem patchcords can also be quickly identified as the VFL will show breaks and bends through the jacket.

Ordering Information

DESCRIPTION	PART NO.
Optronics Test OTDR UK	OPT-OTDR-UK
Optronics Quad wavelength SM & MM OTDR with VFL option*	OPT-OTDR-V-UK
Optronics Quad wavelength SM & MM OTDR with Power Meter option*	OPT-OTDR-P-UK
Optronics Quad wavelength SM & MM OTDR with Power Meter and VFL option*	OPT-OTDR-VP-UK
Optronics Quad wavelength SM & MM OTDR with Inspection Probe, Power Meter and VFL option*	OPT-OTDR-PRO-UK
Inspection Probe Option for OPT-OTDR	OPT-OTDR-PROBE
ST Connector Adapter for OTDR Port	OPT-OTDR-STPA
SC Connector Adapter for OTDR Port	OPT-OTDR-SCPA
FC Connector Adapter for OTDR Port	OPT-OTDR-FCPA

*product created on request : Lead times = 1month

Dead Zone Eliminator

Compact Dead Zone Eliminator
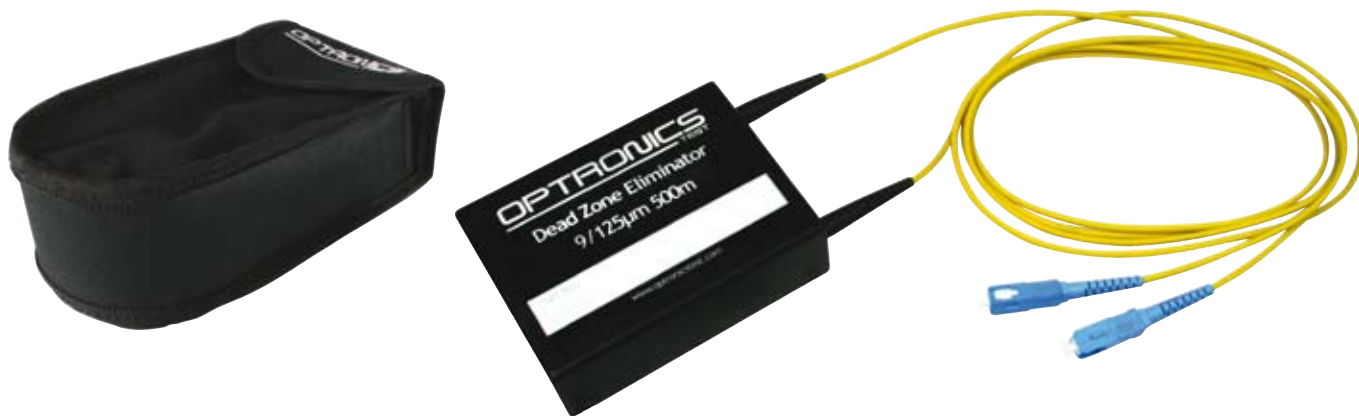
OTDRs require launch and receive test cables to measure the end-to-end loss of optical fibre links. A launch cable, which connects to the OTDR to the link under test, reveals the insertion loss and reflectance of the near-end connection. A receive cable, which is connected to the far-end of the link, reveals the insertion loss and reflectance of the far-end connection.

Optronics launch cables are available in a compact rugged box with 1.5m connectorised tails (or made to custom lengths). These can be neatly stored underneath the box with the provided hook and loop ties. The box is loaded with 150m of fibre as standard and lengths up to 500m can be supplied on special order. The tails can be terminated with the connector combination of your choice. It is supplied in a protective pouch with a handy belt loop. Available fibre types are 50/125, 62.5/125 and 9/125.

Features

► 1.5mm tails
► Choice of connectors
► 150m of fibre standard
► No splicing.

Advantages

► Compact solution
► 150m of fibre as standard
► Rugged construction
► 50N cable retention force.

Technical Specification

Optronics test all terminations as per IEC 61300-3-4 and IEC 61300-3-6.
Specific link losses over the length are dependent upon fibre type, wavelength used and length of fibre. Individual test certification supplied with each product.
For individual fibre specifications please see our standard fibre datasheets.

Operating Temperature	-40 to +85°C
Intermateability	Compliant with IEC 61754 series
Fire Performance	Compliant with IEC 60332-1

Ordering Information

Connector 1	Connector 2	Fibre Type	
			DZCOMPACT
FC	FC	62	
SC	SC	50	
ST	ST	09	
LC	LC		

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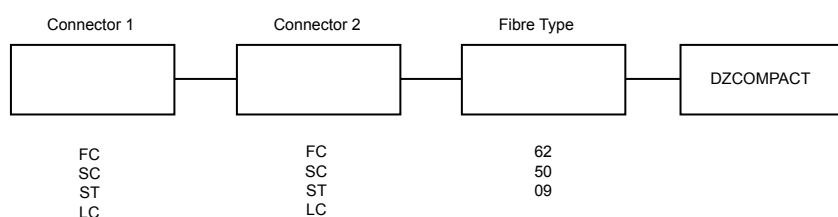
OPTM Fibre Optic Loss Test Kit

OPTM Fibre Optic Loss Test Kit

The OPTM test kit is an inexpensive solution for testing multimode systems. The OPTM kit combines the OPTPM optical power meter and the OPTLS Dual optical light source which operates at 850nm and 1300nm.

The OPTM test kit is a ideal kit for beginners or network owners and can be used for testing premise networks, LAN, and gigabit ethernet.

Features

► Multimode testing

► Includes 50µm and 62.5µm mandrels

► Certify 50µm or 62.5µm multimode fibre

► NIST traceable.

► Loss measurements at 850 and 1300nm

► Field portable, battery operated

► Links for any 850 or 1300nm application, including gigabit ethernet (GBE).

ORDERING INFORMATION	
Description	Part No.
Optical light source, optical power meter protective rubber boots, adapter cap, 50µm and 62.5µm mandrels, user's guide, and carrying case.	OPTMKIT
Test leads and connector adapters are required for operation (purchased separately). Test leads with a variety of connector styles and fibre types are available. Adapter caps for most common connectors may be purchased.	

Technical Data

RoHS Compliant

MODEL	OPTM KIT	
Optical Light Source	OPTLS Dual	
Output ports	2	
Output wavelength	850 + 35/-40 nm	1300 + 50/-10 nm
Spectral width (typ) (FWHM)	40nm	120nm
Output power	-20 dBm	>-20dBm
Stability(at 25°C, 5 min. warm up)	0.1 dB over 8 hours	
Fibre size	62.5 ìm**	
Emitter type	Class 1(IEC60825 - 1)	
Power	Typical 60 hours with 9V battery, optional AC adapter	
Connector	ST	
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)	
Weight	(.29 kg)	

All specifications at 25° C

Available in Multimode and Singlemode version
Part No.   OPTMSKIT

OPTICAL POWER METRE	
Calibration Wavelength	850, 1300, 1310, 1550 nm
Detector type	Germanium (Ge)
Dynamic Range	+6 to -60 dBm
Accuracy(at 25°C –10.0dBm)	±0.25 dB
Measurement Units	dBm
Power	Typical 60 hours with 9V battery
Adapter Caps	Order separately (ST, SC, FC, and others available)
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)
Weight	0.58 lb (0.26 kg)

GENERAL KIT SPECIFICATIONS	
Dynamic Range: Multimode (62.5/125 µm) Singlemode (9/125 µm)	40 dB @ 850 & 1300 nm20 dB @ 1300 nm
Weight	2. 9 lbs (1.3 kg)
Dimensions	9.2 x 13.4 x 4.2 in (23.4 x 34 x 10.7 cm)
Operating Temperature	-10 to 50°C
Storage Temperature	-30 to 60°C

Visual Fault Locator/ OPTVFL-2

Visual Fault Identifier OPTVFL

The OPTVFL-2 is a slim-line, compact visual fault locator, designed to troubleshoot faults on fibre optic cables. It's light-weight, pen style makes it ideal for the installer to carry with them on site.

The OPTVFL-2 is an excellent addition to an engineers tool set because it can locate broken fibre inside the OTDR's dead-zone. Being portable and light it lends itself to other applications, including end-to-end continuity checks, identifying connectors in patch panels, and identifying fibres during splicing operations. The universal connector interface provides fast operation with many connector styles, without the need to change adapters

Features

► 650nm visible red laser source
► High power (1mW).
► 1.25mm adapter available (for LC)
► Slim line pen-style with handy pocket clip
► 2.5mm universal connector interface for quick connection (for SC, ST, FC)

Technical Data

PARAMETER	VALUE
Size (L x d)	170mm x 13.5mm
Weight	88g (including batteries)
Connector type	Universal 2.5mm adapter
Power	2 AA alkaline batteries (40 hours typical)
Operating temperature	0 to 40°C, 95% humidity non condensing
Storage temperature	-20 to 60°C, 95% humidity non condensing
Emitter type	Class 2 Laser diode
Wavelength:	650nm nominal
Output power	1 mW (into single-mode fibre)
Modulation	2 Hz or CW selected

DESCRIPTION	PART NO.
Optronics Pen-style Visual Fault Locator	**OPTVFL-2**
1.25mm adapter for OPTVFL-2	**OPTVFL-2-ADPT1.25**

RoHS Compliant

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TOOLS & TEST EQUIPMENT

Cleaning and Consumables

- ▶ **Lint Free Tissue**
- ▶ **IPA Wipes**
- ▶ **Foam Buds**
- ▶ **Micro Fibre Sticks**
- ▶ **Optronics Cleaning Kit**
- ▶ **Other Cleaning Brands**
- ▶ **Polishing**
- ▶ **Production equipment**

Optronics Branded

LOW LINT TISSUE	PACK SIZE	PART NO.
Lint Free Tissues	100	CLEANTISSUE/100
Lint Free Tissues	400	CLEANTISSUE/400

Low lint tissues are a versatile consumable for many applications. They are primarily used to clean bare fibre as part of the termination or splicing process. The low lint characteristic allows them to be used for a multitude of other purposes, such as cleaning optical equipment and preparing work surfaces.

► Super fast absorbency
► Can be used dry or with fluid
► Leaves reduced lint / fluff / dust particles
► Removes and absorbs dirt / grease / water / chemicals
► Tear resistant
► Strong non woven material.

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

IPA WIPES	PACK SIZE	PART NO.
IPA Saturated Wipes	50pcs	CLEANWIPES

The Optronics pre-saturated wipes contain 99% pure IPA (isopropyl alcohol). The wipe material is made from a high quality, non-abrasive, low lint fabric. They can efficiently remove dust, grease, oil, flux, soils and other contaminants or residues from substrates prior to bonding such as bare optical fibre during a termination or splicing process.

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

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

FOAM BUDS	PACK SIZE	PART NO.
2.5mm Foam Buds	100 pcs	CLEANBUDS

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

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

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

MICRO FIBRE STICKS	PACK SIZE	PART NO.
1.25mm Micro Fibre Sticks	100 pcs	CLEANSTICK

Micro fibre sticks are the ideal consumable for cleaning 1.25mm bulkheads after installation. They can be used to clean the end faces of installed connectors, from inside the enclosure. Cleaning is achieved by inserting the micro fibre tip inside the adapter's aperture and twisting once. The micro fibre material allows the user to clean installed connector end faces without scratching the surface, and ensures a perfect clean first time.

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

► Material: Micro fibre, antistatic
► Thickness:0.05mm
► Absorb speed:6-8 seconds
► Class:10000.
► Size:10mm x 4mm (body) 13mm x 2mm (head)

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Optronics Branded

Optronics Cleaning Kit

The Optronics fibre optic cleaning kits combine all the best and most widely used products in one simple to use package. They contain all the necessary products to competently and professionally clean fibre optic installations. With 3 levels of kit available it's easier to choose the right one for the application.

Feature and Benefits

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

Contents

PRODUCT DESCRIPTION	KIT Nº1	KIT Nº2	KIT Nº3	PART NO.
Lint Free Cleaning Tissues	100 pieces	100 pieces	100 pieces	CLEANTISSUE
2.5mm Foam Cleaning Buds	100 pieces	100 pieces	100 pieces	CLEANBUDS
1.25mm MicroFibre Cleaning Sticks	100 pieces	100 pieces	100 pieces	CLEANSTICK
IPA Cleaning Wipes	10 pieces	10 pieces	10 pieces	CLEANWIPES
FibreCare Connector Cleaning Fluid	1 piece	1 piece	1 piece	FCC03M
Pure Air Duster (UK Only)	--	1 piece	1 piece	CLEANAIR
FibreCare Fibre Preparation Fluid	1 piece	1 piece	1 piece	FPF03M
Cletop-S Type B Cassette Cleaner	--	1 piece	1 piece	14110611
Test Fibre Inspection Scope 200x	--	--	1 piece	OPT-FHS-200X-B
Soft Black Carry Case	1 piece	1 piece	1 piece	OPT-SOFTCASE-B

DESCRIPTION	PART NO.
Level One Cleaning Kit	CLEANKIT-L1
Level Two Cleaning Kit	CLEANKIT-L2
Level Three Cleaning Kit	CLEANKIT-L3

OPTRONICS CLEANING & CONSUMABLES

Other Brands

Other Cleaning Brands

KIMWIPES

MICROCARE

CLETOP

Production equipment

POLISHING MACHINES

CURING OVEN

POLISHING FILMS

Other

Our research and development facilities provide us with the engineering expertise for any project. Please contact us for if you have any prospective products requiring design, manufacture or testing, within a short lead time.

You can find all of our tools, cleaning and inspection range on our new Optronics tools Brochure.

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OPTRONICS CLEANING & CONSUMABLES

Telecommunication Products
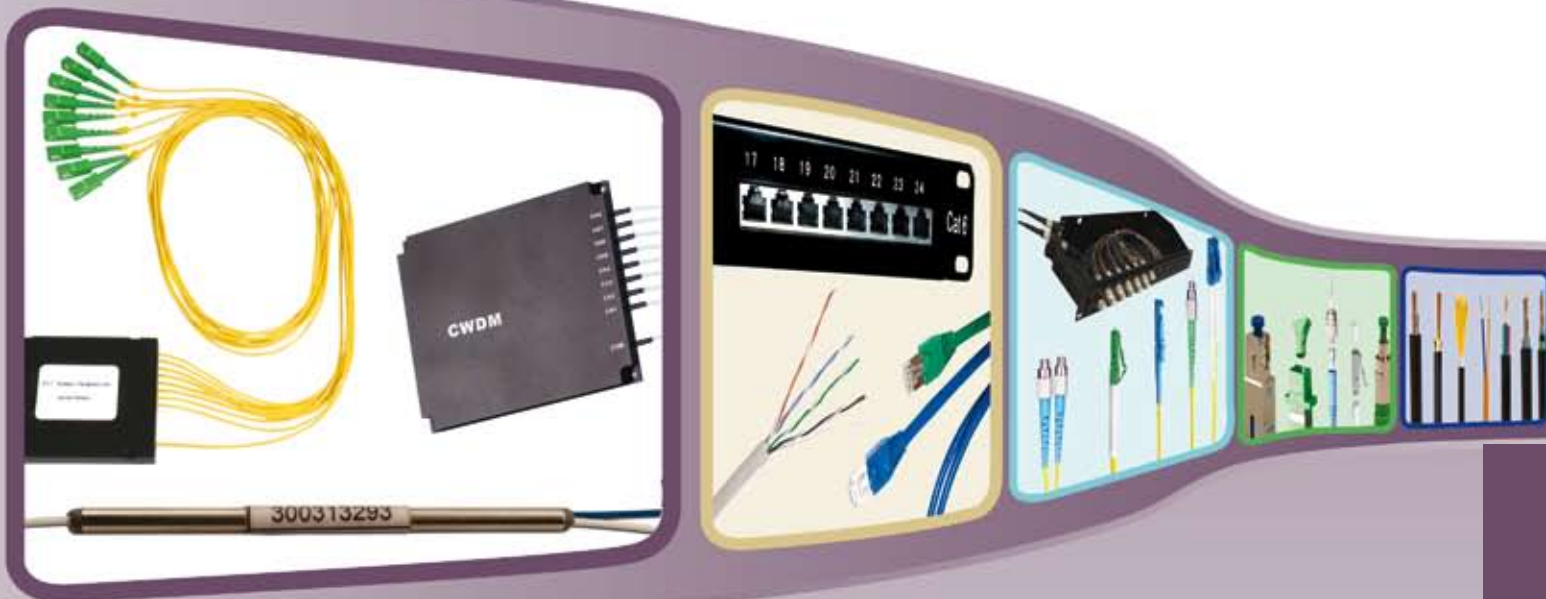
- ► **Bespoke Solutions**
- ► **FTTx**
- ► **Media Converters**
- ► **Couplers / Splitters**
- ► **WDM**
- ► **CWDM**

Bespoke Solutions
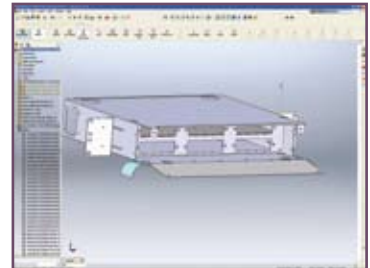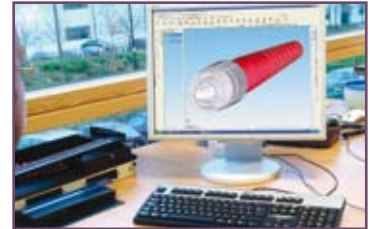
Steady growth and non-generic development within the Telecommunications industry, has brought with it requirements for new and bespoke products. At FibreFab our design team has worked with many clients to develop and co-develop products which originally started life as bespoke solutions but in time have evolved to become a standard, common place product.

Splitting and distribution are also becoming more prevalent in the Telecoms market. As a result, the requirement for easy installation and usage has also increased.

In an endeavour to meet these requirements, FibreFab is able to offer its complete range of splitters, CWDM's, and WDM solutions in all varieties and as managed solutions, including ruggedised housings or modules to be mounted within a patch panel or FTTx box. FibreFab is able to design a product specific to your needs.

Our research and development facilities span the globe providing us with engineering expertise from different backgrounds and cultures. This combined experience gives us a well rounded approach to engineering, enabling us to meet the specific requirements of our customers.

Our global operation enables us to design, manufacture and test any prospective products. This process is fully managed with our customers, to develop the best solution.

CAD design, manufacturing, and laboratory testing facilities integrate to ensure we can manage all areas of production from concept to reality.

Our goal is to provide the customer with a fully loaded, bespoke solution, so all that is required in installation is connection to the existing equipment.
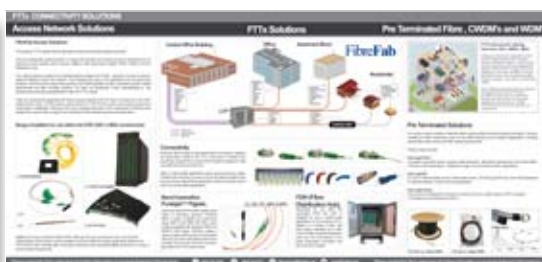
You can find all of our FTTx solutions in our FibreFab
FTTx brochure to download on www.FibreFab.com

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TELECOM PRODUCTS

FTTx

Advances in the Telecommunications industry are being driven by the increased broadband requirements of the subscriber. Consumers expect higher reliability and a high level of service. The broadband market is experiencing an increase in subscribers, who are accessing the central office through fibre or VDSL networks. Both options place an increased demand for fibre connectivity requiring more systems and sub-systems, this has a 'knock back' effect through the network.

Consumer requirements for high speed connections supporting a range of applications, from music or movie downloads, online gaming, HDTV and VOD (video-on-demand) to sophisticated telephony systems, means operators will need to increase the capacity of their networks. FibreFab offer a range of products designed for use with the long haul, core, metro and access networks.
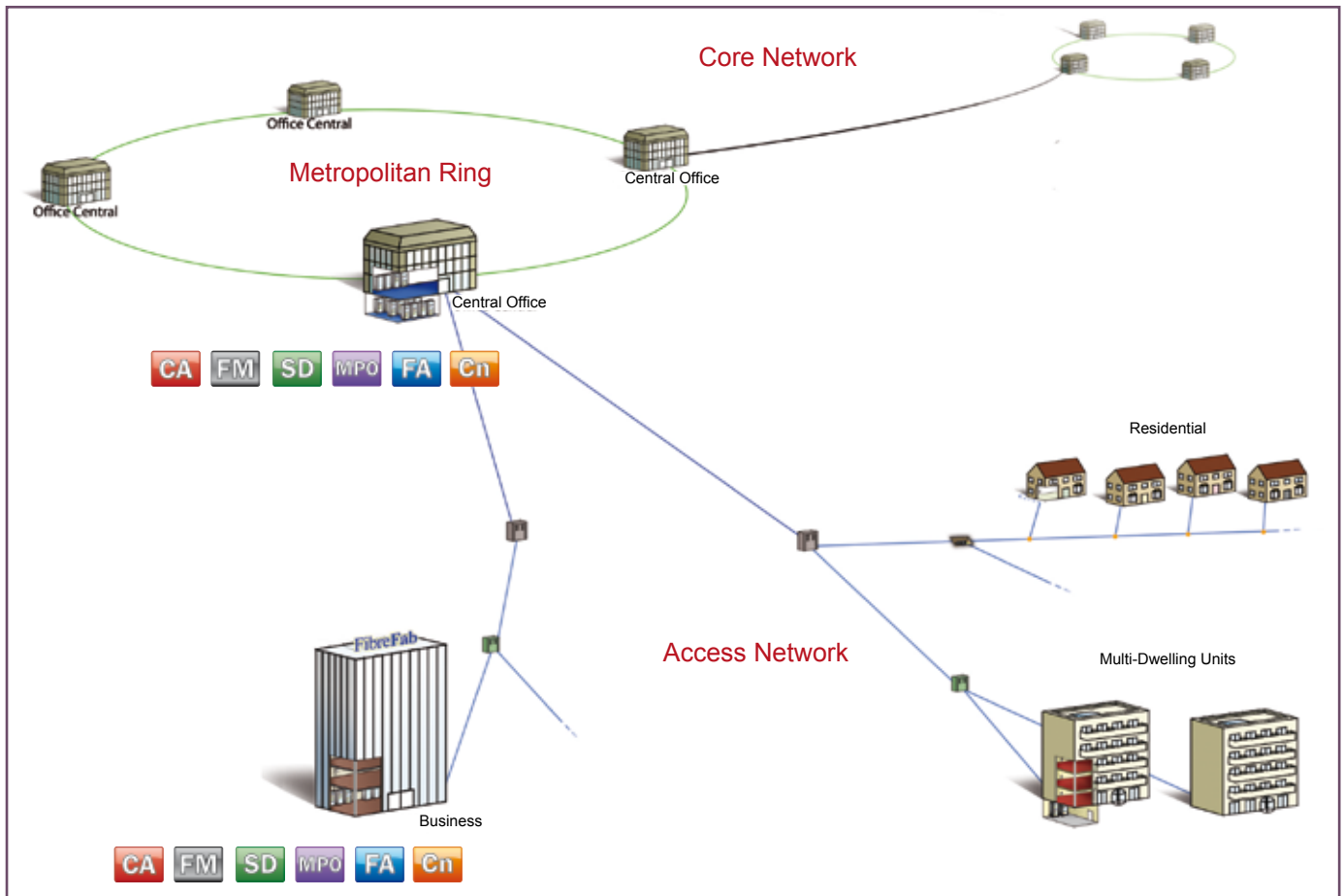
SD — Splitters and Distribution
Splitters, WDM, CWDM etc.

CA — Connectors and adapters
Full range of connectors and adapters

Cn — Connectivity
Attenuators

OSP — External Relay
ODF, cabinets and dome enclosure

FA — Fibre optic assemblies
Patchcords, pigtails, pre-terminated cables

FM — Fibre Management
Wall mounted cabinets, floor standing cabinets, patch panels, wall boxes, splice modules

MPO — Connectors and adapters
MPO panels, fan out, modules

Media Converters

The Optronics media converter will accept your copper signal and transmit it over fibre to distances of up to 120km. The unit benefits from being able to specify the type of connector you require with single or dual fibre networking. The diagnostic lights you can tell when your network is functioning correctly.

Features

► Low cost

► Supports auto MDI-MDIX function on ethernet

► Supports link fault pass through function

► LED display for link/activity, full/half 10/100

► Supports converter or switch mode

► Built in universal AC/DC power supply or external power supply depending on model.

Applications

► LAN

► FTTx

► Telecommunication Networks.

SPECIFICATIONS		
Complies		IEEE 802.3 10 Base-T, 802.3u 100Base-TX and 100Base-FX standards
6 LED		Power, Ethernet and fibre link and work status
Operating Temperature	°C	0-50
Storage Temperature	°C	0-70
Operation Humidity		20-80%
Storage Humidity		10-90%
Power Consumption	W	<2W
Dimensions (LxWxH)	mm	191.7x85.6x30
Weight (g)	g	340
Compliance		FCC part 15 classA, CE
MTBF	hours	38000

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Media Converters

Ordering Information
Media Converter

| MC | | | | | | |

01=10/100
02=1000

S=Singlemode
M=Multimode
W=WDM

ST=ST/PC
SC=SC/PC

For Gigabit:
SCG=SC-GBIC
LCS=LC-SFP

LC only available for Gigabit

2=2km
15=15km
30=30km
50=50km
120=120km

For Gigabit:
10=10km
40=40km
80=80km

Power:
UK
EU
US

Power Type:
I=Internal
E=External
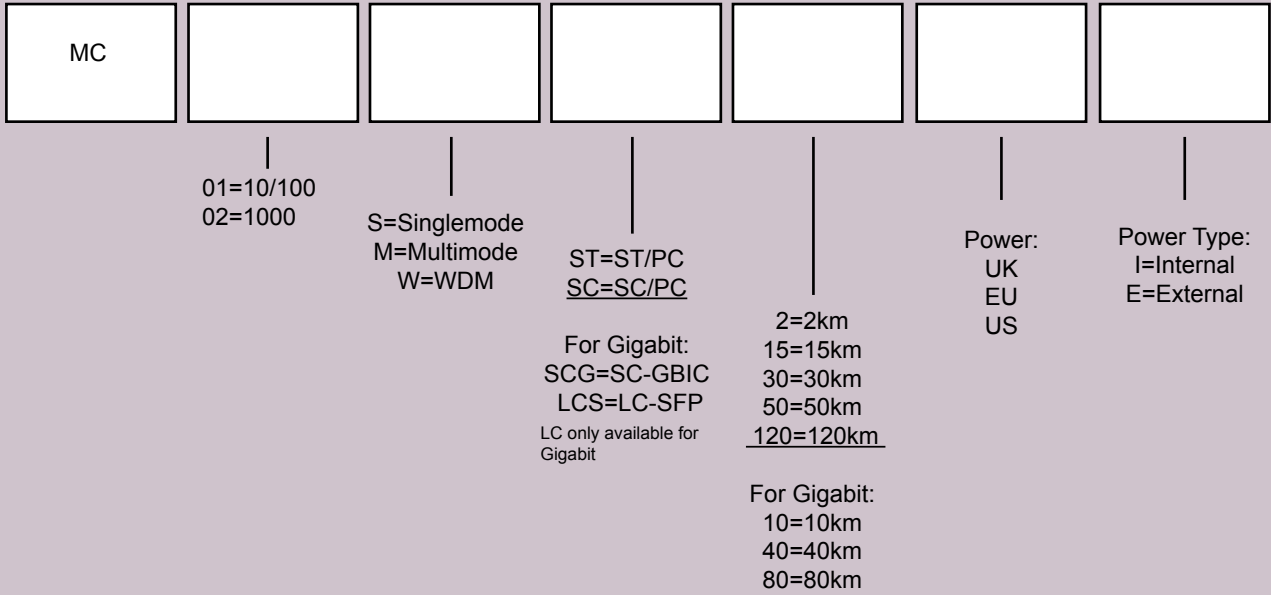
SPECIFICATIONS	
Standards	IEEE 802.3, IEEE802.3u, IEEE802.3x, 10/100BASE-Tx
Twisted Pair Connection	Two port 10/100BASE-Tx with RJ45 connector Auto negotiation for 10/100 port speed and PC/switch operation
Twisted Pair Cable	Cat 5 EIA/TIA 100ohm UTP/STP, up to 100m
Fibre Connection One port 100BASE-Fx	Duplex Multimode SC connector , 50/125µm or 62.5/125µm Cables to 2 km Duplex Singlemode SC connector, 9/125µm cables up to 20km, 40km or 60km, 1310nm wavelength
Data Transfer Rate	Fast Ethernet 100mbps (200mbps in full duplex)
Power Requirement	85-265VAC 50/60Hz

100BASE Tx/Fx Switched Link

Installing fibre between two buildings using switches with a built in fibre port is very expensive and inflexible especially if you ever require expansion. Using Optronics fibre converters and standard copper switches can save you 30%. We have estimated the cost to an installer of a simple fibre link from a main building to a small outbuilding.

If an all copper 24 port switch was already in place, the savings in method 1 for the fibre link would be far greater.

Method 1. A simple link using the Optronics media converter.
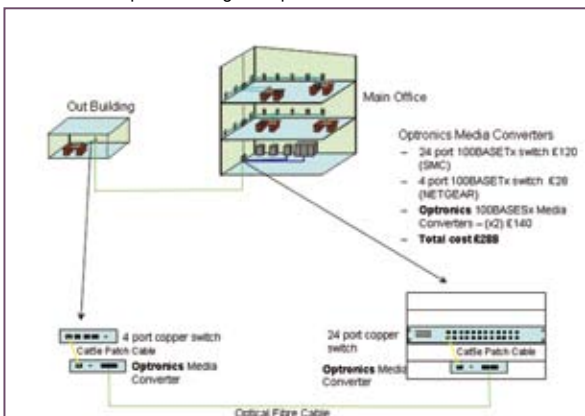
Method 2. The same link, but using hybrid switches.
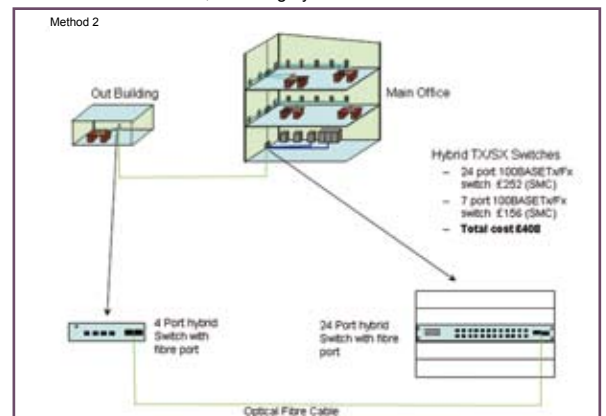
Connectivity
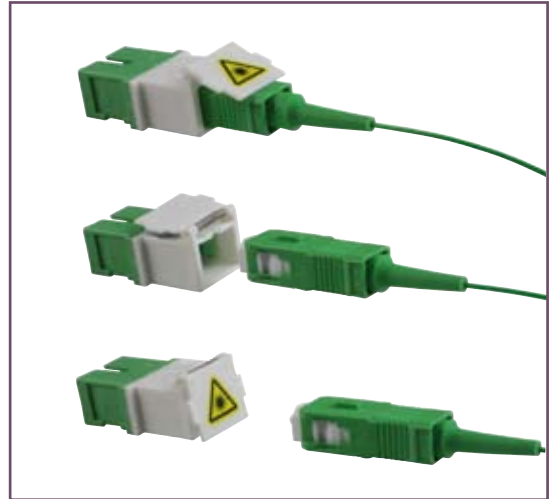
Connectors, Adapters & Attenuators

FibreFab offer a range of high performance connectors, adapters and attenuators suited for the FTTx environment. We have specifically designed the compact SC/A shuttered adapter for safe use within the home outlet.

Often in high density applications space saving becomes critical, therefore, Fibrefab have launched a range of 45° and 90° angled boots for use in these vital patching applications.

Bend Insensitive Purelight™ Pigtails

A growing need for fibre with a tighter bend radius is becoming apparent. FibreFab offer a range of pigtails and patchcords using G657.A and G657.B Fibre, which is fully compatible with standard G652 and G652.D fibre. FibreFab supply a range of patchcords that can be terminated with any connector; early deployments have indicated SC/A as the favoured connector type within the FTTx environment.

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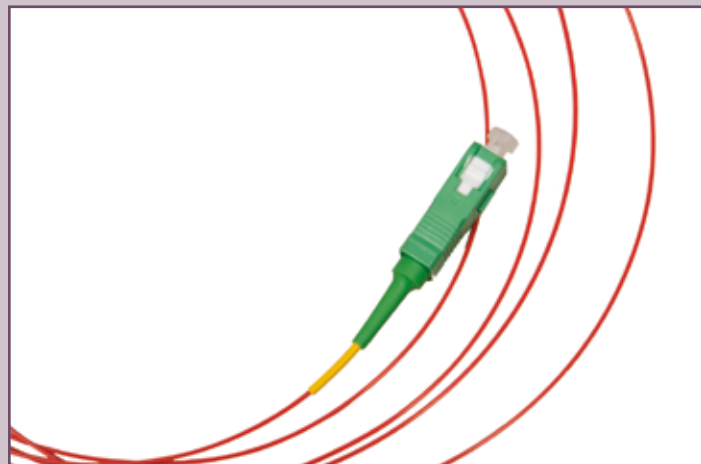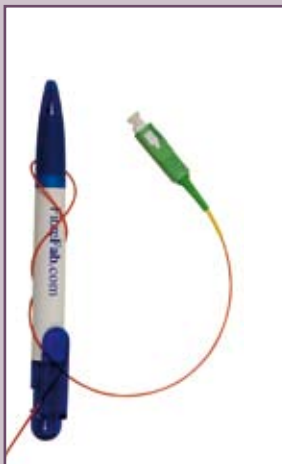
Splitters

1x2 Splitter

1x2 Splitter standard wavelength windows are centered at 1310nm and 1550nm. The FibreFab high performance Fused BiConical Taper process (FBT) bidirectional singlemode 1x2 splitters, are designed for ease of use in optical systems, to split the signal from one fibre into two output fibre lines with ultra low loss. These devices can also be used to combine two signals into one. Fabricated using the state-of-the-art FBT process the splitters operate over a wide range of wavelengths. These splitters are available in both 1x2 and 2x2 configurations. Single window and broadband 1x2 splitters are available on request.

Applications
► FTTX
► Power Splitting
► CATV Networks
► Power Monitoring
► Fibre Optic Sensors
► PON
► Fibre communication systems.

Features
► Near zero excess loss
► Low back reflection
► Thermally stable
► Low PDL
► Accurate split ratio
► All-fibre technology FBT
► Excellent uniformity
► Qualified to GR1209 and GR1221 Telecordia standards
► Available in single, dual window or broadband.

Packaging and Capability
The FibreFab range of couplers are fabricated in a world-class manufacturing facility fully equipped with clean rooms and cutting edge fabrication equipment. This facility has the capability to manufacture over 1M couplers per annum.
FibreFab splitters are available with various packaging options and a variety of connector options to meet customer requirements.

Specification

PARAMETER	UNITS	WIDEBAND (±40NM)
Operating Wavelength	nm	1310, 1550, 1570
Typical loss 2	dB	0.1
50/50		3.4
60/40		2.5/4.4
70/30		1.8/5.6
80/20		1.2/7.5
90/10		0.7/11.0
95/5		0.5/14.0
99/1		0.3/22.1
Directivity	dB	>50
Operating temperature	°C	-40 to 85
Fibre type		Corning SMF 28

1 Loss of high power port/Loss of low power port.

Telecommunication Products

Splitters

1x4 Splitter Monolithic Fused Splitter

FibreFab truly fused 1x4 1x2 splitters are specifically designed and optimised for Fibre to the Home (FTTH) applications. Manufactured using the state-of-the-art Fused BiConical Taper process (FBT), these splitters exhibit uniform performance over the entire optical band from 1260-1630nm with near zero excess loss. The epoxy free optical path of the FibreFab monolithic fused splitter provides good power handling capability.

Applications
► PON
► Telecommunications networks
► CATV
► Fibre test and sensor equipment.

Features
► All fibre technology
► Thermally stable
► Broadband performance
► Low back reflection
► Excellent uniformity
► Qualified to GR1209 and GR1221 Telcordia standards
► Compact packaging.

Packaging and Capability
The FibreFab range of couplers are fabricated in a world-class manufacturing facility fully equipped with clean rooms and cutting edge fabrication equipment. This facility has the capability to manufacture over 1M couplers per annum.
FibreFab splitters are available with various packaging options and a variety of connector options to meet customer requirements.

Specifications

PARAMETER	UNITS	WIDEBAND 1X2	FTTH	ULTRA BROADBAND
Wavelength	nm	1310±40nm 1550±40nm	1310±40 1490±10 1550±40	1260-1630nm
Excess loss	dB	0.2	0.2	0.2
*IL max (25/25/25/25)	dB	7.1	7	7.2
*IL max (40/20/20/20)	dB	5.0/7.8	4.9/7.7	5.1/7.9
Uniformity (25/25/25/25)	dB	1.5	1.4	1.7
PDL max*	dB	0.3	0.3	0.3
Directivity	dB	> 50		
Operating temperature	°C	-40 à 85		
Storage temperature	°C	-40 à 85		
Fibre Type		SMF 28e		

* Values given are maximum, please contact FibreFab for typical and minimum values.

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Splitters

1x4 Splitter Monolithic Fused Splitter

Specifications

PARAMETER		NARROWBAND	WIDEBAND	FTTH	ULTRA BROADBAND
Wavelength	nm	1310±20 1550±20	1310±40nm 1550±40nm	1310±40 1490±10 1550±40	1260-1630nm
Excess loss	dB	0.2	0.2	0.2	0.2
*IL max (25/25/25/25)	dB	7	7.1	7	7.2
*IL max (40/20/20/20)	dB	4.9/7.7	5.0/7.8	4.9/7.7	5.1/7.9
Uniformity (25/25/25/25)	dB	1.2	1.5	1.4	1.7
*PDL max	dB	0.3	0.3	0.3	0.3
Directivity	dB	> 50			
Operating temperature	°C	-40 à 85			
Storage temperature	°C	-40 à 85			
Fibre Type		SMF - 28			

* Values given are maximum, please contact FibreFab for typical and minimum values.

Spectral response for FTTH couplers
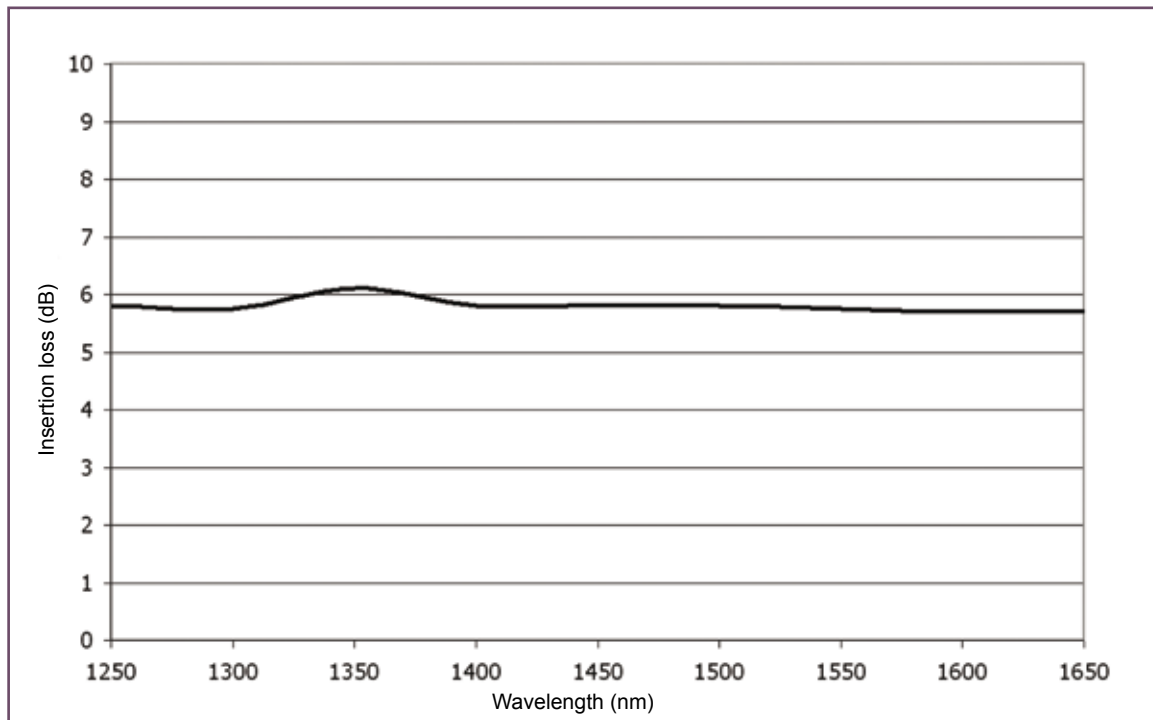
Splitters

1xN and 2xN PLC Splitters
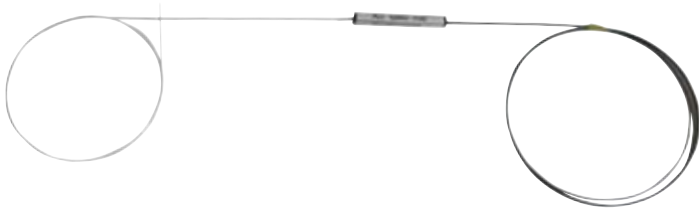
1x32 PLC
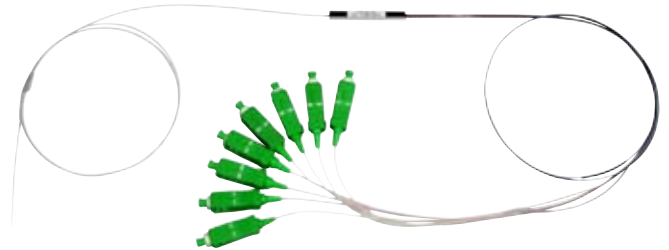
1x8 SCA

Growth in today's broadband applications demand reliable, high performance splitters, for use within a variety of environmental conditions and packaging options. A move towards PON's within the FTTX arena calls for a device offering low insertions loss, linear uniformity and low return loss. FibreFab splitters provide excellent specifications as well as complying to, and exceeding, Telcordia GR-1221-CORE and GR-1209-CORE standard.

Features
► Designed to meet Telcordia standards
► Low IL and PDL
► Excellent uniformity
► Range of packaging options available
► High specification connectors available.

Applications
► FTTx deployments
► CATV networks
► PON's
► WAN's.

Part Number Generator

Type	Configuration	Wavelength	Cable Type	Package Style	Input Connectors	Output Connectors	Fibre Type	Lead length
S								

S	PLC	A	1x2	A	1310/1550mm	0	250um	A	Case ribbon	A	None	A	None	D	G652D	1	1m
		B	1x4	B	1310/1490/1550mm	1	900um	B	Breakout unit	B	E2000/UPC	B	E2000/UPC	A	G657A	15	1.5m
		C	1x8	C	Broadband	2	2mm cable*	C	2&3mm module	C	E2000/APC	C	E2000/APC			2	2m
		D	1x16		1260-1625mm	3	3mm cable*			D	FC/UPC	D	FC/UPC			25	2.5m
		E	1x32							E	FC/APC	E	FC/APC			3	3m
		F	1x64							F	LC/UPC	F	LC/UPC				
		G	2x2							G	LC/APC	G	LC/APC				
		H	2x4							H	MU/APC	H	MU/APC				
		I	2x8							I	MU/UPC	I	MU/UPC				
		J	2x16							J	SC/APC	J	SC/APC				
		K	2x32							K	SC/UPC	K	SC/UPC				
		L	2x64							L	ST/UPC	L	ST/UPC				

*Splitters requiring 2mm & 3mm cable will be supplied in a plastic module with flying pigtails

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1xN and 2xN PLC Splitters

1x8 SCA Module

1x16 SCA LGX Splitter

Technical Specification 2xN

PARAMETER		1x2	1x4	1x8	1x16	1x32	1x64
Operating Wavelength (nm)		1260 ~1650					
Insertion Loss without connector (dB)	Max (P/S)	3.8/4.0	7.2/7.4	10.5/10.7	13.5/13.7	16.5/16.9	20.5/21.0
Insertion Loss with connector (dB)	Max (P/S)	4.3/4.5	7.5/7.7	11.0/11.2	14.0/14.2	17.0/17.5	21.0/21.5
Loss Uniformity without connector (dB)	Max	0.6	0.6	0.8	1.2	1.5	2.5
Loss Uniformity with connector (dB)	Max	0.6	0.8	1.0	1.4	1.7	2.5
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.3	0.3	0.3	0.4
Return Loss (dB)	Min (P/S)	55/50					
Directivity (dB)	Min	55					
Operating Temperature (°C) Storage Temperature (°C)		-40 to 85					
Fibre Type		G652.D compliant or customer specified					
Fibre Length (Bare Splitter) (m)		1.0					
Connector Type		Customer specified					

Technical Specification 1xN

PARAMETER		2x2	2x4	2x8	2x16	2x32
Operating Wavelength (nm)		1260 ~1650				
Insertion Loss without connector (dB)	Max (P/S)	3.9/4.2	7.5/7.8	11.2/11.5	14.2/14.5	17.4/17.7
Insertion Loss with connector (dB)	Max (P/S)	4.4/4.7	8.0/8.3	11.7/12.0	14.7/15.0	17.9/18.2
Loss Uniformity without connector (dB)	Max	0.8	1.5	1.5	1.8	2.0
Loss Uniformity with connector (dB)	Max	0.8	1.7	1.7	2.0	2.5
Polarization Dependent Loss (dB)	Max	0.2	0.2	0.4	0.4	0.4
Return Loss (dB)	Min (P/S)	55/50				
Directivity (dB)	Min	55				
Operating Temperature (°C) Storage Temperature (°C)		-40 to 85				
Fibre Type		G652.D compliant or customer specified				
Fibre Length (Bare Splitter) (m)		1.0				
Connector Type		Customer specified				

WDM

Wavelength Division Multiplexer

FibreFab high performance WDMs have been specifically designed for multiplexing two different signals into a single fibre, or splitting two signals for separate wavelengths from an incoming fibre. The FibreFab 1310/1550nm WDM can be integrated in single fibre bidirectional systems.

Applications
► FTTX
► Telecommunication Networks
► CATV Networks
► Fibre Optic T&M equipment
► Fibre Optic Sensor
► PON
► Fibre communication systems.

Features
► Near zero excess loss
► Low back reflection
► Thermally stable
► Low PDL
► All-fibre technology FBT
► Excellent uniformity
► Qualified to GR1209 and GR1221 Telcordia standards
► Compact packaging.

Packaging and Capability

The FibreFab range of couplers are fabricated in a world-class manufacturing facility fully equipped with clean rooms and cutting edge fabrication equipment. This facility has the capability to manufacture over 1M couplers per annum.

FibreFab splitters are available with various packaging options and a variety of connector options to meet customer requirements.

Specifications

PARAMETER		1310/1550	1310/1490	980/1550
Operating Wavelength	nm	1310/1550 ±15	1310/1490 ± 10	980/1550 ± 10
Maximum Insertion Loss*	dB	0.2	0.3	0.2
Isolation	dB	20	17	20
Directivity	dB		≥ 50	
Operating Temperature	°C		-40 to 85	
Storage Temperature	°C		-40 to 70	
Fibre Type			Corning SMF-28	Corning 1060
DIMENSIONS				
Light			3.0mm (dia.) x 55mm (L), 250µm coated fibre	
Medium			3.05mm (dia.) x 65mm (L), 900µm tube	
Heavy			Plastic Housing, 96.5mm (L) x 12mm (B) x 10mm (H), 3mm Jacketed Cable	

* Values given are maximum, please contact FibreFab for typical and minimum values.

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CWDM

8 Channel CWDM
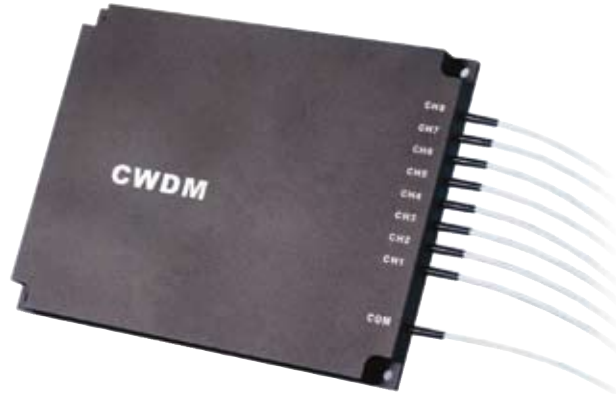
CWDM (Course Wavelength Division Multiplexing) can use up to 18 separate channels for transmission of optical signals. The FibreFab CWDM offers the provider the opportunity of a low cost upgrade option to increase the bandwidth of the network. The CWDM can be supplied as a discrete and rack mounted solution.

Applications
► OADM
► PON
► Telecommunication network.

Features
► Telcordia approved
► Low cost
► RoHS approved.

Packaging and Capability
FibreFab splitters are available with various packaging options and a variety of connector options to meet customer requirements.

The FibreFab range of couplers are fabricated in a world-class manufacturing facility fully equipped with clean rooms and cutting edge fabrication equipment. This facility has the capability to manufacture over 1M couplers per annum.
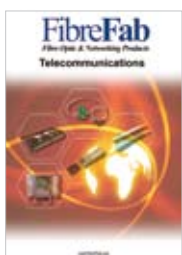
You can find all of our telecommunication products in our FibreFab Telecommunication Catalogue. Available to download on www.FibreFab.com

CWDM

8 Channel CWDM

Specifications

PARAMETER	VALUE				UNIT
Centre Wavelength	1270nm ~ 1610 nm every 20nm channel spacing				nm
Centre Wavelength Accuracy	CWL ± 2				nm
Max Power handling	300				mW
Bandwidth @ -0.5dB	> 15				nm
Bandwidth @ -25dB	< 23				nm
Max. Passband Insertion Loss	2 ch	4 ch	8 ch	16 ch	dB
	1.5	2.0	2.5	4.0	
Passband Ripple	< 0.3				dB
Uniformity	<1.5				dB
Return Loss	>50				dB
Directivity	>50				dB
Channel Isolation	>30				dB
Non-Adjacent Channel Isolation	>40				dB
Polarisation Dependent Loss	<0.15				dB
Mass Tensile Loss	5				N
IL* for Temp. Dependence Loss (-10 ºC - 70 ºC)	2 ch	4 ch	8 ch	16 ch	dB
	0.3	0.3	0.5	0.5	
Operating Temperature	-10 ~ 70				ºC
Storage Temperature	-40 ~ 85				ºC
Fibre Type	Corning SMF-28 (9/125/250 micro)				
Fibre Diametre	900 micro loose tube				
Pigtail Lengths	1				Metre
Connector Type	FC,ST,SC, LC, MU				
Connector End Face	PC, APC				

* IL including connector loss.

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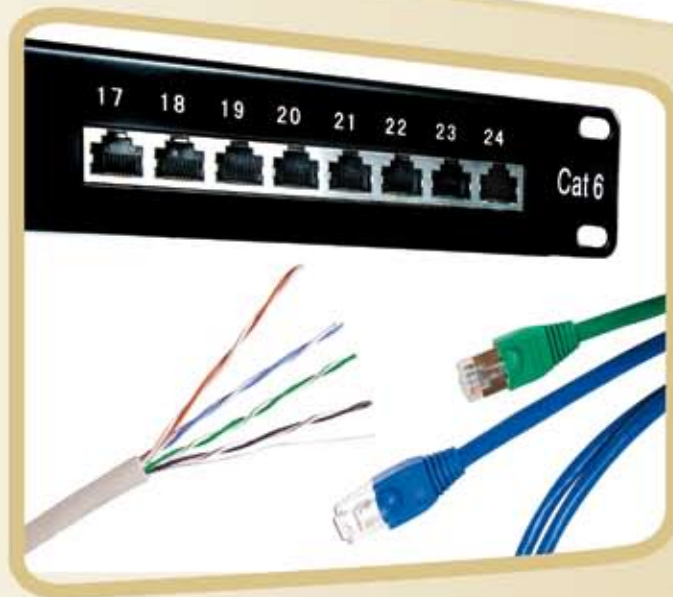
Copper

► **Category 3**
► **Category 5e**
► **Category 6**

Category 3

Category 3 Voice Patch Panels

OptronicsPLUS CAT3 voice patch panels offer a cost effective method of introducing simple voice circuits into a structured cabling system.

These CAT3 voice panels are available in a 1U 25 port or a compact 1U 50 port option. The ports are clearly identified and both options are produced with high quality LSA style termination blocks, which are situated at a 90 degree angle to the RJ45 ports. This makes cable termination extremely quick and easy. The IDC contacts will also accept 22-26 AWG solid copper wire. Integral rear cable management relieves cable stress during and after installation.

Each panel comes complete with mini cable ties, cage nuts and earthing kit.

Features

▶ 19" 1U 25 port and compact 1U 50 port options

▶ 90 degree termination blocks

▶ Accepts 22-26AWG copper wire

▶ Provided with mini cable tie, cage nuts and earthing kit

▶ Integral cable management

▶ LSA style IDC termination blocks

▶ Individually numbered ports

▶ Designated label area

Technical Specifications

Panel Width	19" (483mm) rack mountable
Panel Depth	6.5" (163mm)
Panel Height	1U (44.5mm)
Colour	Black RAL 9005
Terminal Block	LSA IDC – 250 re-terminations Max.
Ports	RJ45 Minimum 750 insertions
Temperature Range	°C
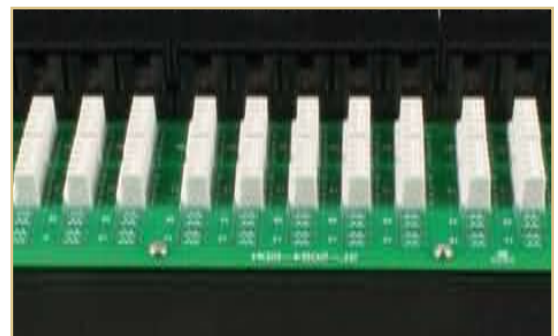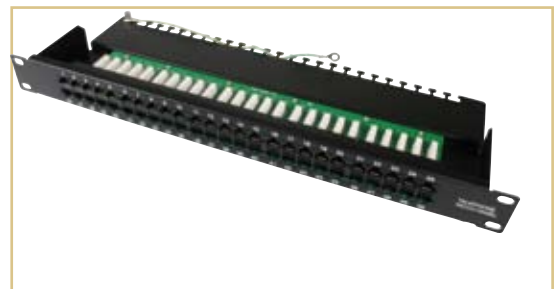
Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 3 1U 25 port voice patch panel Black	CAT3+LSA25
OptronicsPLUS Category 3 1U 50 port voice patch panel Black	CAT3+LSA50

Optronics Category 3 Telephone cable is available upon request.
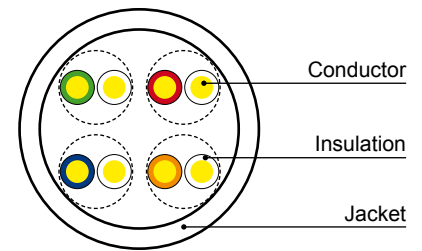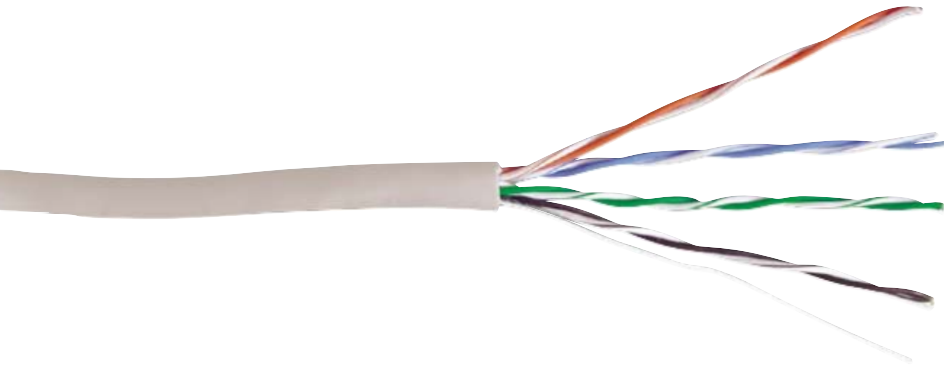
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Category 5e

Category 5e UTP Cable

OptronicsPLUS CAT5e unshielded twisted pair (UTP) LAN cable is manufactured from 24 AWG solid copper wire. Each cable is fabricated with 4 twisted pairs and each individual conductor is insulated with a colour coded polyethylene coating. The twisted pairs are covered by a grey PVC or violet Low Smoke Zero Halogen (LSZH) jacket; they also conform to the RoHS directive.

The OptronicsPLUS CAT5e UTP LAN cable is supplied in a 305m box. The boxes are convenient for transportation and are very mobile when installing. The cable is easily pulled from the box and is designed to avoid snagging. The cable jacket is metre marked allowing for quick and easy measurement and a record table is printed on every box to help installers keep track of lengths used. Our cable is tested and verified to conform to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e standards.

Cable Data

Freq	Characteristic Impedance	Return Loss	Structure Return Loss	Atten	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Prop Delay
MHz	OHM	dB	dB	dB/100M	dB	dB	dB	dB	NS/100m
0.772		19.4	28.0	1.8	67.0	64.0	66.2	63.2	575
1.0		20.0	28.0	2.0	65.3	62.3	64.0	61.0	570
4.0		23.0	28.0	4.1	56.3	53.3	52.0	49.0	552
8.0		24.5	28.0	5.8	51.8	48.8	45.9	42.9	547
10.0		25.0	28.0	6.5	50.3	47.3	44.0	41.0	545
16.0		25.0	28.0	8.2	47.2	44.2	39.9	63.9	543
20.0	100 - 15	25.0	28.0	9.3	45.8	42.8	38.0	35.0	542
25.0		24.3	27.0	10.4	44.3	41.3	36.0	33.0	541
31.3		23.6	26.1	11.7	42.9	39.9	34.1	31.1	540
62.5		21.5	23.1	17.0	38.4	35.4	28.1	25.1	539
100.0		20.1	21.0	22.0	35.3	32.3	24.0	21.0	538
200.0		18.0	18.0	32.4	30.8	27.8	18.0	15.0	537
250.0		17.3	17.0	36.9	29.3	26.3	16.0	13.0	536

Features

▶ Conformes to Category 5e Standards

▶ 24 AWG solid copper wire

▶ Available in PVC or LSZH jacket

▶ RoHS compliant

▶ 305m (1000ft) box

▶ Printed metre mark.

Applications

▶ 10 BASE T (IEEE 802.3)

▶ 100 BASE T (IEE 802.3U)

▶ 100 Vg-any LAN (IEEE 802.12)

▶ TOKEN RIG (IEEE 805.5)

▶ TP-PMD9ANSI (X3T9.5)

▶ 100 MbPS CDDI

▶ ATM 155.

Industry Standards

▶ UL, ETL, ANSI/TIA/EIA568

▶ ISO/IEC 11801:2002

▶ EN 50288-3-1.

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS CAT5e UTP LAN cable PVC 305m Box - Grey	UTP5E305PVC
OptronicsPLUS CAT5e UTP LAN cable LSZH 305m Box - Violet	UTP5E305LSZH

Category 5e UTP Patch Panels

OptronicsPLUS CAT5e UTP Patch Panels comply with the EIA/TIA standards for enhanced category 5. These patch panels have a fully sealed frame, giving extra protection to the internal circuit boards, which makes this panel very robust when compared to standard unsealed rival panels. To the front of the panel each port is numbered and has a designated label area for clear port identification.

The back of the panel consists of high quality 110 style termination blocks which accept 22-26 AWG solid copper wire. T568A and T568B wiring diagrams are printed throughout each block of 8 ports assisting a quick and easy termination. A rear cable management bar is supplied which acts as a stress reliever of terminated cables.

Each panel conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e standards. A choice of 19" 1U 24 port or 2U 48 port patch panels are available, both come with mini cable ties, cage nuts and rear cable management bar as standard.

Features

- Fully sealed robust frame
- Individually numbered ports
- T568A / B wiring diagrams
- Designated label area
- Rear cable management bar.
- 1U 24 ports or 2U 48 ports options available
- Conforms to Category 5e Standards
- 110 style IDC termination blocks
- Accepts 22-26AWG copper wire
- Provided with mini cable tie and cage nuts.

Technical Specifications

Panel Width	19" (483mm) rack mountable
Panel Depth	1.5" (40mm)
Panel Height	1U (44.5mm) 24 port 2U (89mm) 48 Port
Colour	Black RAL 9005
Terminal Block	LSA IDC – 250 re-terminations Max.
Ports	RJ45 Minimum 750 insertions

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 5e UTP 1U 24 port patch panel Black	CAT5E+UTP24
OptronicsPLUS Category 5e UTP 2U 48 port patch panel Black	CAT5E+UTP48

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Category 5e

Category 5e UTP Patchcords

OptronicsPLUS CAT5e unshielded twisted pair (UTP) patchcords are manufactured from 24 AWG stranded copper wire and terminated using a high grade 50U" gilded RJ45 modular plug.

Our CAT5e patch cords are available with either a PVC or Low Smoke Zero Halogen (LSZH) jacket, they also conform to the RoHS directive.

Each patch cord is individually tested to ANSI/TIA/EIA 568A-B.2.2001 category 5e standards to ensure full CAT5e performance.
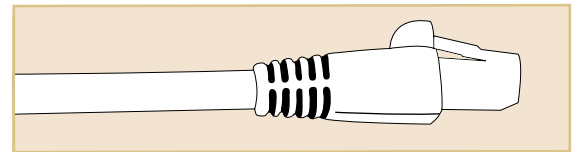
Features

▶ Individually tested

▶ Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards

▶ 24 AWG solid copper wire

▶ 50U" gilded RJ45 plug

▶ Flush moulded

▶ Hooded boot

▶ Available in 8 standard colours

▶ Available in 7 standard lengths

▶ Individually packaged.

PART NUMBER GENERATOR:

| UTP5E | XX | A | - | PVC | = PVC Jacket example |
| UTP5E | XX | A | - | LSZH | = LSZH Jacket Example |

| UTP5E | XX | A | PVC/LSZH |

CHOOSE YOUR COLOUR

	BL
	GN
	RD
	OR
	YE
	WH
	GY
	BK

CHOOSE YOUR LENGTH

0.5m	0.5m
1m	1m
2m	2m
3m	3m
5m	5m
7m	7m
10m	10m

CHOOSE YOUR JACKET TYPE

PVC JACKET	PVC
LSZH JACKET	LSZH

NB: Standard length available are 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

Category 5e UTP Keystone Jacks
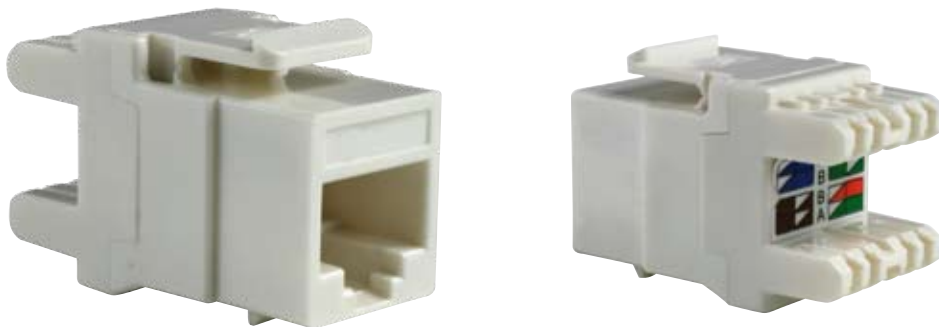
These keystone jacks offer versatility as they can be installed into a number of faceplates, unloaded shuttered modules as well as our unloaded 1U 24 port patch panel frame PANEL24KEYSTONE. Using these keystone jacks in the patch panel and outlet will provide you with a more balanced system and improve overall performance of the link.

For aesthetic reasons the jacks are available in black for use with the unloaded panel frame or in white for use with shutters and faceplates. Each jack conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e standards.

The jacks have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool.

Features

▶ Accepts 22-24 AWG copper wire
▶ Packed in a box of 12
▶ Available in black or white
▶ Dual termination block
▶ Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards.

▶ Can be used in unloaded patch panels
▶ Can be used in faceplates and shutters
▶ Independently tested and verified
▶ High performance
▶ Compact design, ideal for high density applications.

Representative image of a loaded angled module with a category 5e UTP Keystone Jack.

(Please note angled module is sold seperately as below)

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS 50x25mm 45 Degree Angled ModuleUnloaded for Keystone Jack – inc. ID Tags – Box of 12	ANGLEDMODULE

Technical Specifications

|	
Insertion Life	Minimum 750
Termination	Dual 110 / LSA block – 250 re-terminations Max.
Contacts	8 pin Phosphor Bronze

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 5e UTP Keystone Jack, White Box of 12	CAT5E+JACK180WH
OptronicsPLUS Category 5e UTP Keystone Jack, Black Box of 12	CAT5E+JACK180BK
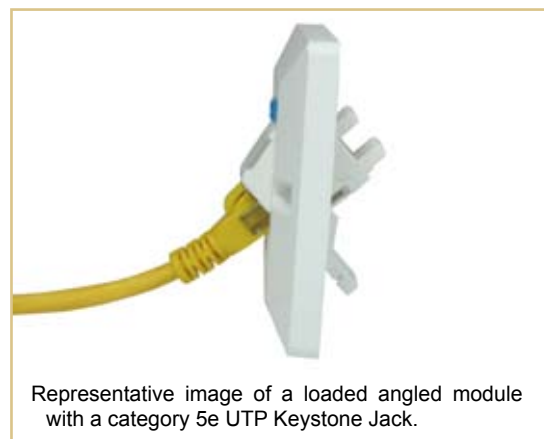
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Category 5e

Category 5e UTP Euro Modules

These Euro modules feature a slim line design which is an ideal solution for shallow floor box or dado trunking applications. Each module is supplied with a slide in label area for easy and clear outlet identification.

Each Euro module conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e standards.

The modules have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool.

Features

- Accepts 22-24 AWG copper wire
- High performance
- Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards.
- Dual termination block
- Slim line for shallow applications
- Packed in a box of 24.

Technical Specifications

Insertion Life	Minimum 750
Termination	Dual 110 / LSA block – 250 re-terminations Max.
Contacts	8 pin Phosphor Bronze

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 5e UTP Euro module 50x25mm Box of 24	CAT5E+FACEMODULE

Category 5e
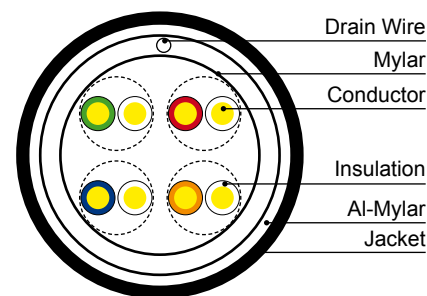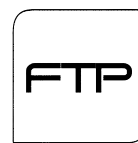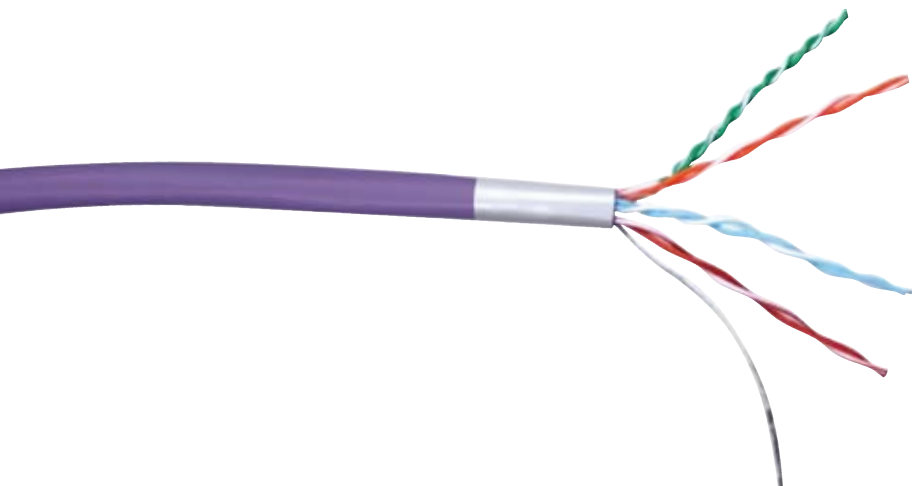
Category 5e UTP Cable

OptronicsPLUS CAT5e Foil twisted pair (FTP) LAN cable is manufactured from 24 AWG solid copper wire. Each cable is fabricated with 4 twisted pairs each individual conductor is insulated with a colour coded polyethylene coating and a quality foil shield covers all pairs. The foiled twisted pairs are covered by a grey PVC or Violet Low Smoke Zero Halogen (LSZH) jacket; they also conform to RoHs and WEE directives.

The OptronicsPLUS CAT5e FTP LAN cable is supplied in a 305m box, each box offers a convenient way for transportation and is very mobile when installing. The cable is easily pulled from the box and is designed to avoid snagging of the cable. The cable jacket is metre marked allowing for quick and easy measurement and a record table is printed on every box to help installers keep track of lengths used. Our cable is tested and verified to conform to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 shielded Category 5e standards.

Features

► RoHs and WEE compliant
► Quality foil shield
► 24 AWG solid copper wire
► 305m (1000ft) box
► Printed metre mark
► Available in PVC or LSZH jacket.

Applications

► 10 BASE T (IEEE 802.3)
► 100 BASE T (IEE 802.3U)
► 100 Vg-any LAN (IEEE 802.12)
► TOKEN RIG (IEEE 805.5)
► TP-PMD9ANSI (X3T9.5)
► 100 MbPS CDDI
► ATM 155.

Industry Standards

► UL, ETL, ANSI/TIA/EIA568
► ISO/IEC 11801:2002
► EN 50288-3-1.

Cable Data

Freq	Characteristic Impedance	Return Loss	Structure Return Loss	Atten	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Prop Delay
MHz	OHM	dB	dB	dB/100M	dB	dB	dB	dB	NS/100m
0.772		19.4	28.0	1.8	67.0	64.0	66.2	63.2	575
1.0		20.0	28.0	2.0	65.3	62.3	64.0	61.0	570
4.0		23.0	28.0	4.1	56.3	53.3	52.0	49.0	552
8.0		24.5	28.0	5.8	51.8	48.8	45.9	42.9	547
10.0		25.0	28.0	6.5	50.3	47.3	44.0	41.0	545
16.0		25.0	28.0	8.2	47.2	44.2	39.9	63.9	543
20.0	100 - 15	25.0	28.0	9.3	45.8	42.8	38.0	35.0	542
25.0		24.3	27.0	10.4	44.3	41.3	36.0	33.0	541
31.3		23.6	26.1	11.7	42.9	39.9	34.1	31.1	540
62.5		21.5	23.1	17.0	38.4	35.4	28.1	25.1	539
100.0		20.1	21.0	22.0	35.3	32.3	24.0	21.0	538
200.0		18.0	18.0	32.4	30.8	27.8	18.0	15.0	537
250.0		17.3	17.0	36.9	29.3	26.3	16.0	13.0	536

Ordering Information

DESCRIPTION	PART NO
Optronics PLUS CAT5e FTP LAN Cable PVC 302m Box - Grey	FTP5E305PVC
Optronics PLUS CAT5e FTP LAN Cable LSZH 302m Box - Violet	FTP5E305LSZH

+44 (0) 870 8329 700   +44 87 01 27 33 31

Category 5e

Category 5e STP Patch Panels

OptronicsPLUS CAT5e STP patchpanels comply with the EIA/TIA standards for enhanced category 5. These shielded patch panels feature 24 ports each individually numbered and with label space. Stress on cable caused by termination during and after installation is greatly reduced by the integral rear cable management. Each port is accompanied by a clamping plate which grants efficient grounding of the cables.

The OptronicsPlus Shielded patch panels consists of high quality LSA style termination blocks which are situated at a 90 degree angle to the RJ45 ports, this makes cable termination extremely quick and easy, the IDC contacts will also accept 22-26 AWG solid copper wire. Terminations and groundings are protected by the screw on top cover supplied as standard with each panel.

Each panel conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC 11801:2002 and EN50173-2 Category 5e standards. Available as a 19" 1U 24 port patch panel only it comes complete with mini cable ties, cage nuts, screw on top cover and earthing kit.

Features

▶ 19" 1U 24 port
▶ Screw on top plate
▶ Grounding clamps
▶ Designated label area
▶ T568A / B wiring diagrams
▶ Accepts 22-26AWG copper wire.

▶ Individually numbered ports
▶ Integral cable management
▶ 90 degree termination blocks
▶ LSA style IDC termination blocks
▶ Conforms to category 5e standards
▶ Provided with mini cable tie, cage nuts and earthing kit.
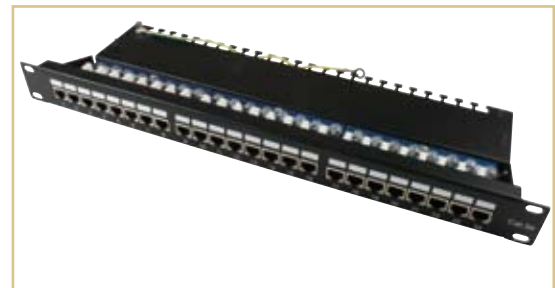
Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 5e Shielded 1U 24 port patch panel black	CAT5E+STP24

Technical Specifications

Panel Width	19" (483mm) rack mountable
Panel Depth	4.75" (122mm)
Panel Height	1U (44.5mm) 24 port
Colour	Black RAL 9005
Terminal Block	LSA IDC – 250 re-terminations Max.
Ports	RJ45 Minimum 750 insertions

Category 5e

Category 5e FTP Patchcords

OptronicsPLUS CAT5e foil twisted pair (FTP) patchcords are manufactured from 26 AWG stranded copper wire with a quality foil shield covering all pairs and terminated using a high grade 50U" gilded shielded RJ45 modular plug.

Our CAT5e patchcords are available with either a PVC or Low Smoke Zero Halogen (LSZH) jacket, they also conform to the RoHS directive.

Each patch cord is individually tested to ANSI/TIA/EIA 568A-B.2.2001 shielded category 5e standards to ensure full CAT5e FTP performance.
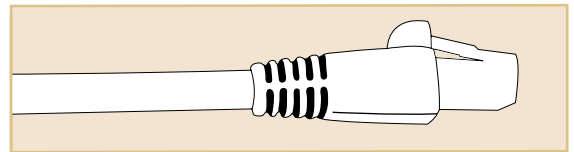
Features

▶ Individually tested

▶ Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards

▶ Quality foil shield

▶ 24 AWG solid copper wire

▶ 50u gold RJ45 plug

▶ Flush moulded

▶ Hooded boot

▶ Available in 8 standard colours

▶ Available in 7 standard lengths

▶ Individually packaged.

PART NUMBER GENERATOR:

FTP5E XX A - PVC   = PVC Jacket example
FTP5E XX A - LSZH   = LSZH Jacket Example

FTP5E	xx	A	PVC/LSZH

CHOOSE YOUR COLOUR	
	BL
	GN
	RD
	OR
	YE
	WH
	GY
	BK

CHOOSE YOUR LENGTH	
	0.5m
	1m
	2m
	3m
	5m
	7m
	10m

CHOOSE YOUR JACKET TYPE	
PVC JACKET	PVC
LSZH JACKET	LSZH

NB: Standard length available: 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

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Category 5e

Category 5e STP Keystone Jacks

These keystone jacks are shielded with a two part zinc alloy case giving optimum protection from electromagnetic interference from an outside source. The rear casing is clicked into place after your FTP cable has been fed through the centre and terminated to the jack. The jack is manufactured with an integral cable strain relief. They can be installed into a number of faceplates and unloaded shuttered modules.

The jacks have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool. Each jack conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e standards.

Features

- Two part zinc alloy shielding
- Dual termination block
- High performance
- Packed in a box of 12
- Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards.
- Accepts 22-24 AWG copper wire
- Independently tested and verified
- Can be used in faceplates and shutters
- Compact design, ideal for high density applications.

Technical Specifications

Insertion Life	Minimum 750
Termination	Dual 110 / LSA block – 250 re-terminations Max
Contacts	8 pin Phosphor Bronze
Shield	Zinc alloy casing

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 5e STP Keystone Jack Box of 12	CAT5E+JACK180STP
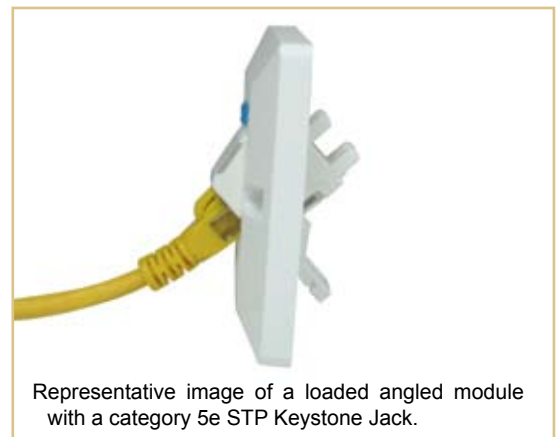
Representative image of a loaded angled module with a category 5e STP Keystone Jack.

(Please note angled module is sold seperately as below)

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS 50x25mm 45 Degree Angled ModuleUnloaded for Keystone Jack – inc. ID Tags – Box of 12	ANGLEDMODULE

Unloaded 24 Port Patch Panel

Unloaded 24 Port Patch Panels

OptronicsPLUS 1U unloaded 24 port patchpanel allows flexibility for the user during installations. It gives you the benefit of only using ports required by installing the desired number of jacks into the frame. It is also non category specific and allows you to install any OptronicsPLUS keystone jack whether it be CAT5e or CAT6 UTP.

Each port is numbered and has a designated label area for clear port identification. When combined with an OptronicsPLUS UTP keystone jack for CAT5e / CAT6 your completed panel will conform to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 5e / 6 standards.

Available unloaded in a 19" 1U 24 port option, the panel comes complete with mini cable ties, cage nuts and rear cable management bar as standard.

Features

▶ Individually numbered ports

▶ Unloaded 1U 24 port option

▶ For use with OptronicsPLUS CAT 5e/6 jacks.

▶ Designated label area

▶ Rear cable management bar

▶ Provided with Mini cable tie and cage nuts.

OptronicsPLUS Category 6 UTP Shuttered Keystone Jack

Technical Specifications

Panel Width	19" (483mm) rack mountable
Panel Depth	4.75" (122mm)
Panel Height	1U (44.5mm) 24 port
Colour	Black RAL 9005

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Unloaded 1U 24 port patch panel black	PANEL24KEYSTONE
OptronicsPLUS Category 6 UTP Shuttered Keystone Jack black - Box of 12	CAT6+JACK180BKS

Can't find what you're looking for? Don't hesitate to contact us...
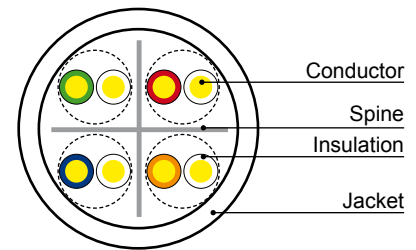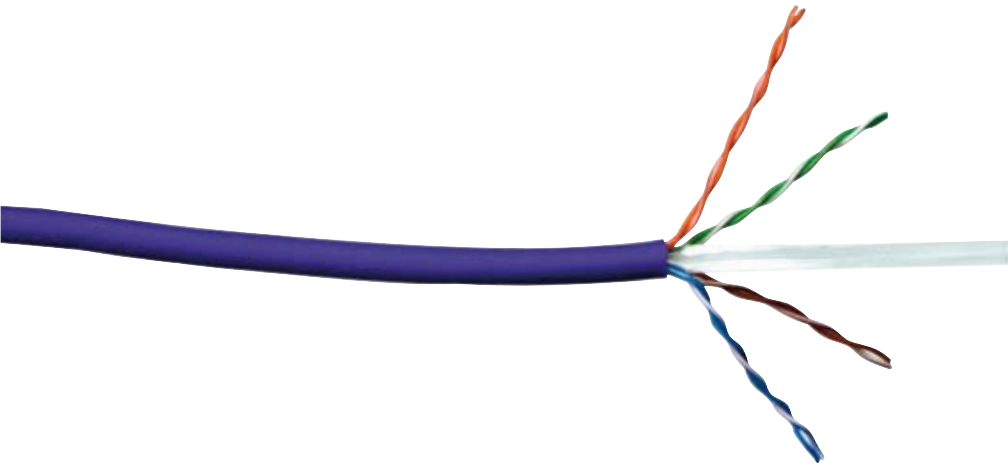
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Category 6

Category 6 UTP LAN Cable

OptronicsPLUS CAT6 unshielded twisted pair (UTP) LAN cable is manufactured from 24 AWG solid copper wire. Each cable is fabricated with 4 twisted pairs each individual conductor is insulated with a colour coded polyethylene coating. The twisted pairs are covered by a grey PVC or violet Low Smoke Zero Halogen (LSZH) jacket; they also conform to the RoHS directive.

The violet OptronicsPLUS CAT6 UTP LAN cable is supplied in a 305m box. The boxes are convenient for transportation and are very mobile when installing. The cable is easily pulled from the box and is designed to avoid snagging. The cable jacket is metre marked allowing for quick and easy measurement and a record table is printed on every box to help installers keep track of lengths used. Our cable is tested and verified to conform to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards.

Features

► Conforms to Category 6 standards
► 305m (1000ft) box
► 24 AWG solid copper wire
► Printed metre mark
► Available in PVC or LSZH jacket
► RoHS compliant.

Applications

► 10 BASE T (IEEE 802.3)
► TP-PMD9ANSI (X3T9.5)
► 100 BASE T (IEE 802.3U)
► 100 MbPS CDDI
► 100 Vg-any LAN (IEEE 802.12)
► ATM 155
► TOKEN RIG (IEEE 805.5)
► 1000 BASE-TX.

Industry Standards

► UL, ETL, ANSI/TIA/EIA568
► ISO/IEC 11801:2002
► EN 50288-3-1.

Cable Data

Freq	Characteristic Impedance	Return Loss	Structure Return Loss	Atten	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Prop Delay
MHz	OHM	dB	dB	dB/100M	dB	dB	dB	dB	NS/100m
0.772		19.4	30.0	1.6	76.0	74.0	70.2	67.2	575
1.0		20.0	30.0	1.8	74.3	72.3	68.0	65.0	570
4.0		23.0	30.0	3.7	65.3	63.3	56.0	53.0	552
8.0		24.5	30.0	5.3	60.8	58.8	49.9	46.9	547
10.0		25.0	30.0	5.9	59.3	57.3	48.0	45.0	545
16.0		25.0	30.0	7.5	56.2	54.2	43.9	40.9	543
20.0		25.0	30.0	8.4	54.8	52.8	42.0	39.0	542
25.0	100 - 15	24.3	29.0	9.5	53.3	51.3	40.0	37.0	541
31.3		23.6	28.1	10.6	51.9	49.9	38.1	35.1	540
62.5		21.5	25.1	15.4	47.4	45.4	32.1	29.1	539
100.0		20.1	23.0	19.8	44.3	42.3	28.0	25.0	538
200.0		18.0	20.0	29.0	39.8	37.8	22.0	19.0	537
250.0		17.3	19.0	32.8	38.3	36.3	20.0	17.0	536

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS CAT6 UTP LAN cable PVC 305m Box - Grey	UTP6305PVC
OptronicsPLUS CAT6 UTP LAN cable LSZH 305m Box - Violet	UTP6305LSZH

Category 6

Category 6 UTP Keystone Jack Patch Panels

OptronicsPLUS CAT6 UTP keystone jack patchpanels comply with the EIA/TIA standards for category 6. These patch panels use our CAT6 UTP shuttered keystone jacks which offers a completely balanced system when using the same jack in the wall outlet. When combined with the OptronicsPLUS CAT6 cable and modules this product will exceed Category 6 performance specifications. This product has been independently tested by 3P ensuring link performance.

To the front of the panel each port is numbered and has a designated label area for clear port identification. Each cable can be terminated to an individual keystone jack which uses a dual termination block and will accept either an LSA or a 110 insertion tool. A rear cable management bar is supplied to act as a stress reliever of terminated cables and maintain proper cable management after installation. Each keystone will accept 22-26 AWG solid copper wire. T568A and T568B wiring diagrams are printed on the back of each jack assisting a quick and easy termination. Each panel conforms to and exceeds ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards. Available fully loaded in a 19" 1U 24 port option, the panel comes complete with mini cable ties, cage nuts and rear cable management bar as standard.

Features

- ▶ Designated label area
- ▶ Rear cable management bar
- ▶ Individually numbered ports
- ▶ T568A / B wiring diagrams
- ▶ Conforms to and exceeds Category 6 standards.
- ▶ Provided with mini cable ties and cage nuts
- ▶ Fully loaded 1U 24 port option
- ▶ Accepts 22-26AWG copper wire
- ▶ Dual LSA/110 style keystone jacks.

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 6 UTP Keystone 1U 24 port patch panel black	CAT6+UTP24K

Technical Specifications

Panel Width	19" (483mm) rack mountable
Panel Depth	1.5" (40mm)
Panel Height	1U (44.5mm) 24 port
Colour	Black RAL 9005
Terminal Block	110 / LSA IDC – 250 re-terminations Max.
Ports	RJ45 Minimum 750 insertions

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Category 6

Category 6 UTP LAN Cable

OptronicsPLUS CAT6 UTP Printed Circuit Board (PCB) patchpanels comply with the EIA/TIA standards for Category 6. These patch panels have a fully sealed frame giving extra protection to the internal circuit boards, which makes this panel very robust when compared to standard unsealed rival panels. To the front of the panel each port is numbered and has a designated label area for clear port identification.

The back of the panel consists of high quality 110 style termination blocks which accept 22-26 AWG solid copper wire. T568A and T568B wiring diagrams are printed throughout each block of 8 ports assisting a quick and easy termination. A rear cable management bar is supplied which acts as a stress reliever of terminated cables.

Each panel conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards.

A choice of 19" 1U 24 port or 2U 48 port patch panels are available, both come with mini cable ties, cage nuts and rear cable management bar as standard.

Features

- Designated label area
- Fully sealed robust frame
- T568A / B wiring diagrams
- Individually numbered ports
- Rear cable management bar
- Conforms to and exceeds Category 6 standards.
- Provided with mini cable ties and cage nuts
- 110 style IDC termination blocks
- Conforms Category 6 standards
- Accepts 22-26AWG copper wire
- 1U 24 ports or 2U 48 ports options available

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 6 UTP 1U 24 port PCB patch panel black	CAT6+UTP24PCB
OptronicsPLUS Category 6 UTP 2U 48 port PCB patch panel black	CAT6+UTP48PCB

Technical Specifications

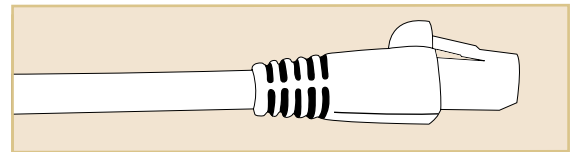|	
Panel Width	19" (483mm) rack mountable
Panel Depth	1.5" (40mm)
Panel Height	1U (44.5mm) 24 port, 2U (89mm) 48 Port
Colour	Black RAL 9005
Terminal Block	110 / LSA IDC – 250 re-terminations Max
Ports	RJ45 Minimum 750 insertions

Category 6 UTP Patchcords - Continuity Tested

OptronicsPLUS CAT6 unshielded twisted pair (UTP) patchcords are manufactured from 24 AWG stranded copper wire and terminated using a high grade 50U" gilded RJ45 modular plug.

Our CAT6 patchcords are available with either PVC or Low Smoke Zero Halogen (LSZH) jackets, they also conform to the RoHS directive.

Each patchcord is continuity tested to ANSI/TIA/EIA 568A-B.2.2001 category 6 standards to ensure full CAT6 UTP performance when part of a channel.
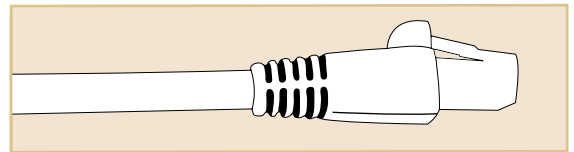
CATEGORY 6 | **UTP**

Features

► Continuity tested

► Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards

► 24 AWG stranded copper wire

► 50U" gilded RJ45 plug

► Flush moulded

► Hooded boot

► Available in 8 standard colours

► Available in 7 standard lengths

► Individually packaged.

PART NUMBER GENERATOR:

| UTP6 | XX | A | - | PVC | = PVC Jacket example |
| UTP6 | XX | A | - | LSZH | = LSZH Jacket Example |

| UTP6 | XX | A | PVC/LSZH |

CHOOSE YOUR COLOUR		CHOOSE YOUR LENGTH		CHOOSE YOUR JACKET TYPE	
	BL	0.5m	0.5m	PVC JACKET	PVC
	GN	1m	1m	LSZH JACKET	LSZH
	RD	2m	2m		
	OR	3m	3m		
	YE	5m	5m		
	WH	7m	7m		
	GY	10m	10m		
	BK				

NB: Standard length available are 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

Can't find what you're looking for? Don't hesitate to contact us...

+44 (0) 870 8329 700   +44 87 01 27 33 31
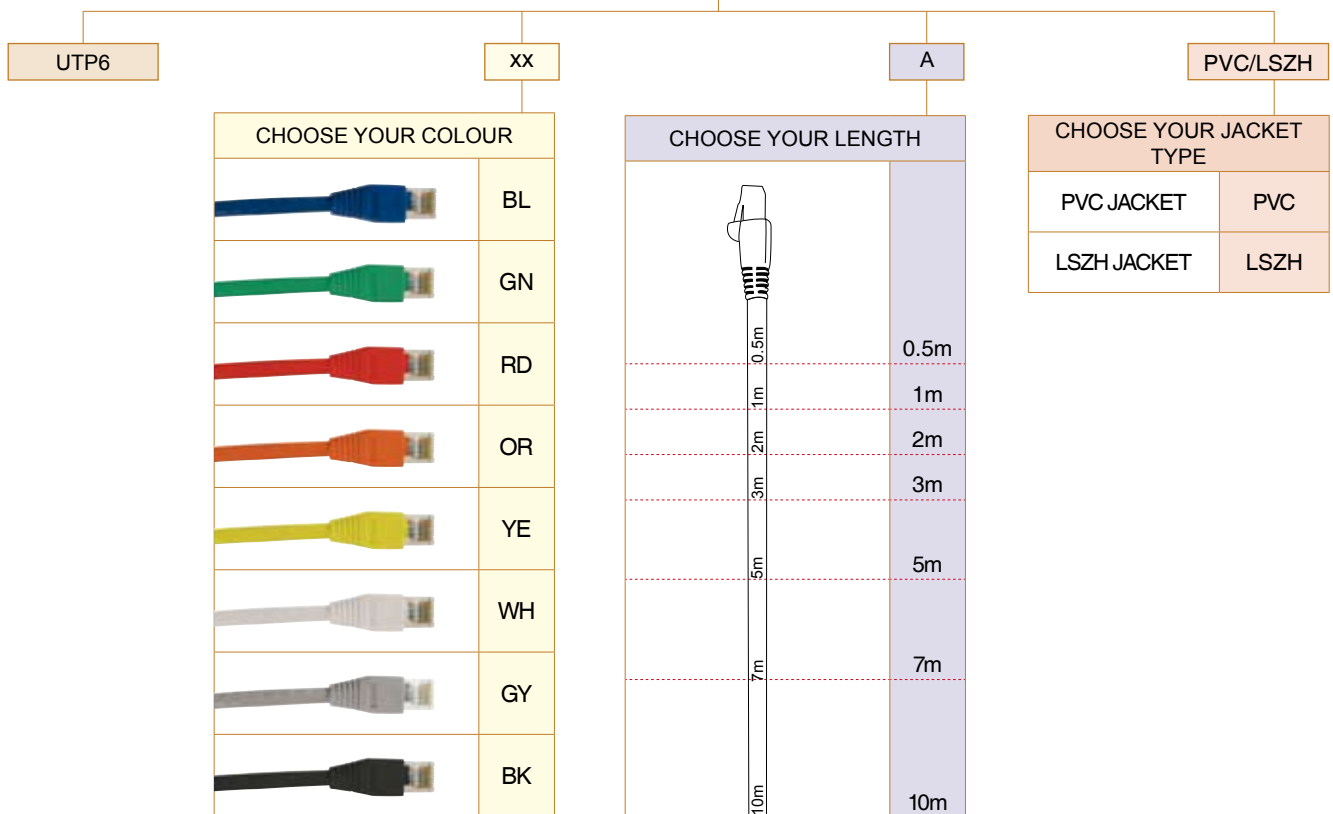
COPPER

Category 6

Category 6 UTP Patchcords - Component Level Tested

OptronicsPLUS CAT6 unshielded twisted pair (UTP) patchcords are manufactured from 24 AWG stranded copper wire and terminated using a high grade 50U" gilded RJ45 modular plug.

Our CAT6 patchcords are available with either a PVC or Low Smoke Zero Halogen (LSZH) jacket, they also conform to the RoHS directive.
Each patchcord is tested at component level to ANSI/TIA/EIA 568A-B.2.2001 Category 6 standards to ensure that each patchcord exceeds a true CAT6 UTP performance.

Features

- ▶ Component level tested
- ▶ Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards
- ▶ 24 AWG stranded copper wire
- ▶ 50U" gilded RJ45 plug
- ▶ Flush moulded
- ▶ Hooded boot
- ▶ Available in 8 standard colours
- ▶ Available in 7 standard lengths
- ▶ Individually packaged.

PART NUMBER GENERATOR:

| UTP6+ | XX | A | - | PVC | = PVC Jacket example |
| UTP6+ | XX | A | - | LSZH | = LSZH Jacket Example |

| UTP6+ | XX | A | PVC/LSZH |

CHOOSE YOUR COLOUR

	BL
	GN
	RD
	OR
	YE
	WH
	GY
	BK

CHOOSE YOUR LENGTH

0.5m	0.5m
1m	1m
2m	2m
3m	3m
5m	5m
7m	7m
10m	10m

CHOOSE YOUR JACKET TYPE

PVC JACKET	PVC
LSZH JACKET	LSZH

NB: Standard length available are 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

Category 6 UTP Keystone Jacks

These keystone jacks offer versatility as they can be installed into a number of faceplates, unloaded shuttered modules as well as our unloaded 1U 24 port patch panel frame PANEL24KEYSTONE, using these keystone jacks in the patch panel and outlet will provide you with a more balanced system improving overall performance of the link.

For aesthetic reasons the jacks are available in black for use with the unloaded panel frame or in white for use with shutters and faceplates. Each jack conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards.

The jacks have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool.

Features

- High performance
- Packed in a box of 12
- Dual termination block
- Available in black or white
- Conforms to ANSI/TIA/EIA 568A B.2.2001 standards.
- Accepts 22-24 AWG copper wire
- Independently tested and verified
- Backward compatible with CAT5e
- Can be used in unloaded patch panels
- Compact design, ideal for high density applications.

Technical Specifications

Insertion Life	Minimum 750
Termination	Dual 110 / LSA block – 250 re-terminations Max.
Contacts	8 pin Phosphor Bronze

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 6 UTP Keystone Jack – White Box of 12	CAT6+JACK180WH
OptronicsPLUS Category 6 UTP Keystone Jack – Black Box of 12	CAT6+JACK180BK
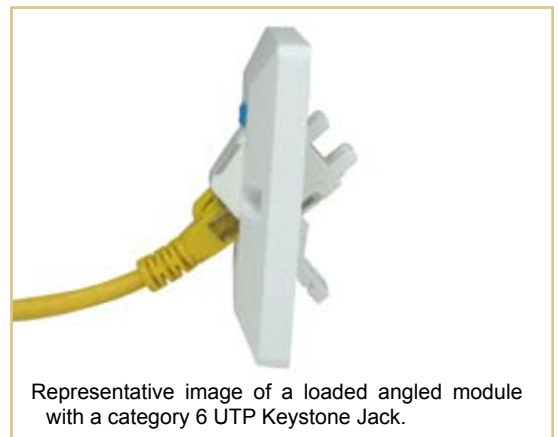
Representative image of a loaded angled module with a category 6 UTP Keystone Jack.

(Please note angled module is sold seperately as below)

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS 50x25mm 45 Degree Angled ModuleUnloaded for Keystone Jack – inc. ID Tags Box of 12	ANGLEDMODULE

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Category 6

Category 6 UTP Angled Dual Port Faceplate

OptronicsPLUS offer a loaded dual port angled faceplate as part of the CAT6 UTP range. The faceplate features 2 ports angled at 45 degrees which improves the reduction of stress to the patchcord as well as improving the bend radius of the terminated LAN cable from within the back box. Engineered in two parts, this faceplate can firstly be terminated and attached to the back box using the screws provided, a smooth beveled frame can then be attached to cover unsightly mounting holes and screw heads. Perfect for installations where aesthetics are very important such as Hotels.

Each faceplate comes with a designated area for labelling and each port includes reversible voice or data ID tags making port identification for end users quick and easy. Each faceplate is loaded with our CAT6 UTP shuttered keystone jack. The jacks have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool.

Each jack conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards.

Features

- High performance
- Packed in a box of 12
- Dual termination block
- Designated label area
- Smoothed beveled frame
- Aesthetically pleasing, ideal for hotel environments
- Hides unsightly mounting holes and screw heads.
- Accepts 22-24 AWG copper wire
- Backward compatible with CAT5e
- Independently tested and verified
- Angled ports for reduced cable stress
- Includes voice or data tags
- Conforms to ANSI/TIA/EIA 568A B.2.2001 standards
- Loaded with CAT6 UTP shuttered keystone jacks.

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS CAT6 UTP Angled Dual Port Faceplate Box of 12	CAT6+JACKPLATE2A

Technical Specifications

Insertion Life	Minimum 750
Termination	Dual 110 / LSA block - 250 re-terminations Max.
Contacts	8 pin Phosphor Bronze
Size	Single Gang 86x86mm
Port	2 ports

Category 6

Category 6 FTP Cable
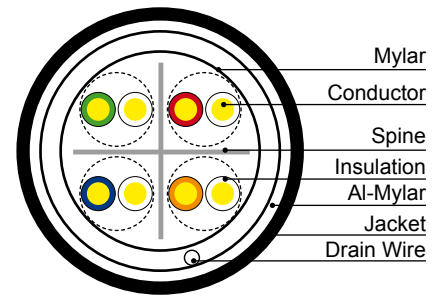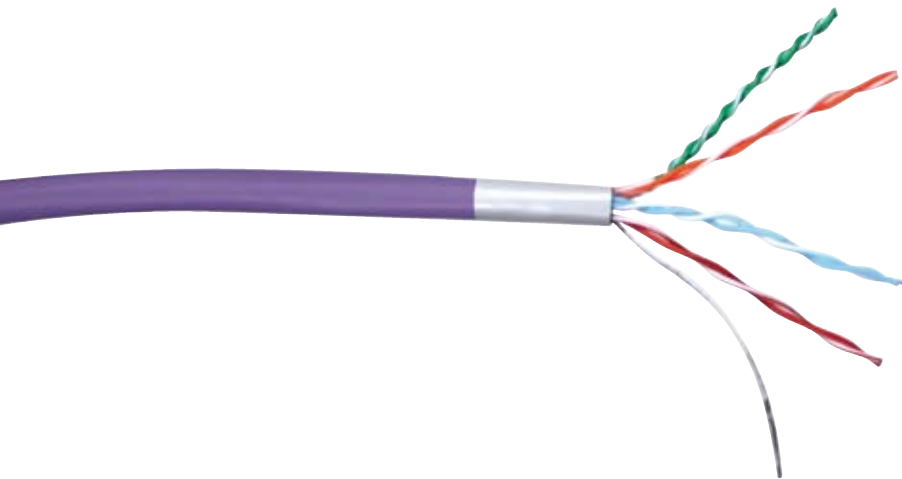
CATEGORY 6 **FTP**

Mylar
Conductor
Spine
Insulation
Al-Mylar
Jacket
Drain Wire

OptronicsPLUS CAT6 foil twisted pair (FTP) LAN cable is manufactured from 24 AWG solid copper wire. Each cable is fabricated with 4 twisted pairs, each individual conductor is insulated with a colour coded polyethylene coating and a quality foil shield covers all pairs. The foiled twisted pairs are covered by a grey PVC or violet Low Smoke Zero Halogen (LSZH) jacket; they also conform to the RoHS directive.

The OptronicsPLUS CAT6 FTP LAN cable is supplied in a 305m box. The boxes are convenient for transportation and very mobile when installing. The cable is easily pulled from the box and is designed to avoid snagging. The cable jacket is metre marked allowing for quick and easy measurement and a record table is printed on every box to help installers keep track of lengths used. Our cable is tested and verified to conform to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 shielded Category 6 standards.

Features

▶ Conformes to category 6 standards
▶ Printed metre mark
▶ Quality foil shield
▶ 305m (1000ft) box
▶ 24 AWG solid copper wire
▶ RoHS compliant
▶ Available in PVC or LSZH jacket.

Applications

▶ 10 BASE T (IEEE 802.3)
▶ TP-PMD9ANSI (X3T9.5)
▶ 100 BASE T (IEE 802.3U)
▶ 100 MbPS CDDI
▶ 100 Vg-any LAN (IEEE 802.12)
▶ ATM 155
▶ TOKEN RIG (IEEE 805.5)
▶ 1000 BASE-TX.

Industry Standards

▶ UL, ETL, ANSI/TIA/EIA568
▶ ISO/IEC 11801:2002
▶ EN 50288-3-1.

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS CAT6 UTP LAN cable PVC 305m Box - Grey	UTP6305PVC
OptronicsPLUS CAT6 UTP LAN cable LSZH 305m Box - Violet	UTP6305LSZH

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Category 6

Category 6 STP Patch Panels

OptronicsPLUS CAT6 STP patchpanels comply with the EIA/TIA standards for Category 6. These shielded patch panels feature 24 ports each individually numbered and with label space. Stress on cable caused by termination during and after installation is greatly reduced by the integral rear cable management. Each port is accompanied by clamping plates, which grants efficient grounding of the cables.

The OptronicsPlus shielded patch panels consists of high quality LSA style termination blocks which are situated at a 90 degree angle to the RJ45 ports, this makes cable termination extremely quick and easy, the IDC contacts will also accept 22-26 AWG solid copper wire. Terminations and groundings are protected by the screw on top cover supplied as standard with each panel.

Each panel conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards. Available as a 19" 1U 24 port patch panel only it comes complete with mini cable ties, cage nuts, screw on top cover and earthing kit.

Features

- 19" 1U 24 port
- Grounding clamps
- Designated label area
- 90 degree termination blocks
- Screw on top plate
- T568A / B wiring diagrams.
- Conforms to category 6 standards
- Accepts 22-26AWG copper wire
- LSA style IDC termination blocks
- Integral cable management
- Individually numbered ports
- Provided with mini cable tie, cage nuts and earthing kit.
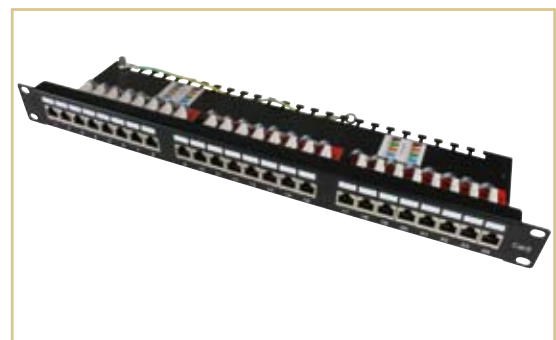
Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 6 Shielded 1U 24 port patch panel Black	CAT6+STP24

Technical Specifications

|	
Panel Width	19" (483mm) rack mountable
Panel Depth	4.75" (122mm)
Panel Height	1U (44.5mm) 24 port
Colour	Black RAL 9005
Terminal Block	LSA IDC – 250 re-terminations Max.
Ports	RJ45 Minimum 750 insertions

Category 6 FTP Patchcords - Continuity Tested

OptronicsPLUS CAT6 foil twisted pair (FTP) patchcords are manufactured from 26 AWG stranded copper wire with a quality foil shield covering all pairs and terminated using a high grade 50U" gilded shielded RJ45 modular plug.

Our CAT6 patchcords are available with either a PVC or Low Smoke Zero Halogen (LSZH) jacket, they also conform to the RoHS directive.

Each patchcord is continuity tested to ANSI/TIA/EIA 568A-B.2.2001 shielded Category 6 standards to ensure full CAT6 FTP channel performance.
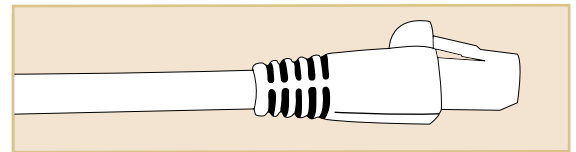
Features

► Continuity tested
► Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards
► Quality foil shield
► 24 AWG stranded copper wire
► 50U" gilded RJ45 plug
► Flush moulded
► Hooded boot
► Available in 8 standard colours
► Available in 7 standard lengths
► Individually packaged.

PART NUMBER GENERATOR:

FTP6 XX A - PVC   = PVC Jacket example
FTP6 XX A - LSZH   = LSZH Jacket Example

UTP6	XX	A	PVC/LSZH

CHOOSE YOUR COLOUR	
	BL
	GN
	RD
	OR
	YE
	WH
	GY
	BK

CHOOSE YOUR LENGTH	
0.5m	0.5m
1m	1m
2m	2m
3m	3m
5m	5m
7m	7m
10m	10m

CHOOSE YOUR JACKET TYPE	
PVC JACKET	PVC
LSZH JACKET	LSZH

NB: Standard length available are 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

Can't find what you're looking for? Don't hesitate to contact us...

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Category 6 FTP Patchcords - Component Level Tested

OptronicsPLUS CAT6 foil twisted pair (FTP) patchcords are manufactured from 26 AWG stranded copper wire with a quality foil shield covering all pairs and terminated using a high grade 50U" gilded shielded RJ45 modular plug.

Our CAT6 patchcords are available with either a PVC or Low Smoke Zero Halogen (LSZH) jacket they also conform to the RoHS directive. Each patchcord is tested at component level to ANSI/TIA/EIA 568A-B.2.2001 shielded Category 6 standards to ensure that each patchcord exceeds a true CAT6 FTP performance.
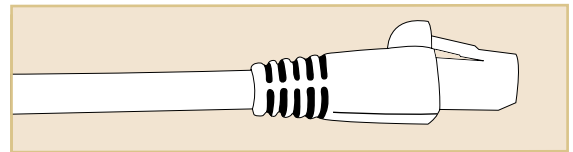
Features

- ► Component level tested
- ► Conforms to ANSI/TIA/EIA 568A-B.2.2001 standards
- ► Quality foil shield
- ► 26 AWG stranded copper wire
- ► 50U" gilded RJ45 plug
- ► Flush moulded
- ► Hooded boot
- ► Available in 8 standard colours
- ► Available in 7 standard lengths
- ► Individually packaged.

PART NUMBER GENERATOR:

FTP6+ XX A - PVC = PVC Jacket example
FTP6+ XX A - LSZH = LSZH Jacket Example

UTP6+   XX   A   PVC/LSZH

CHOOSE YOUR COLOUR	
	BL
	GN
	RD
	OR
	YE
	WH
	GY
	BK

CHOOSE YOUR LENGTH

0.5m, 1m, 2m, 3m, 5m, 7m, 10m

CHOOSE YOUR JACKET TYPE	
PVC JACKET	PVC
LSZH JACKET	LSZH

NB: Standard length available are 0.5m, 1m, 2m, 3m, 5m, 7m and 10m.

Non standard colour and length options are available on request. Subject to minimum order value and minimum order quantity.

Category 6 STP Keystone Jacks

These keystone jacks are shielded with a two part case giving optimum protection from electromagnetic interference from an outside source. The rear casing is clicked into place after your FTP cable has been fed through the centre and terminated to the jack. The jack is manufactured with an integral cable strain relief. They can be installed into a number of faceplates and unloaded shuttered modules.

The jacks have a dual termination block which will allow the installer to terminate with either a 110 or LSA insertion tool. Each jack conforms to ANSI/TIA/EIA 568A-B.2.2001, ISO/IEC11801:2002 and EN50173-2 Category 6 standards.

Features

- Accepts 22-24 AWG copper wire
- Dual termination block
- High performance
- Packed in a box of 12
- Compact design, ideal for high density applications.
- Can be used in faceplates and shutters
- Backward compatible with CAT5e
- Independently tested and verified
- Two part Zinc alloy shielding
- Conforms to ANSI/TIA/EIA 568A B.2.2001 standards.

Representative image of a loaded angled module with a category 6 STP Keystone Jack.

(Please note angled module is sold seperately as below)

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS 50x25mm 45 Degree Angled ModuleUnloaded for Keystone Jack – inc. ID Tags – Box of 12	ANGLEDMODULE

Technical Specifications

Insertion Life	Minimum 750
Termination	Dual 110 / LSA block – 250 re-terminations Max.
Contacts	8 pin Phosphor Bronze
Shield	Zinc alloy casing

Ordering Information

DESCRIPTION	PART NO
OptronicsPLUS Category 6 STP Keystone Jack Box of 12	CAT6+JACK180STP
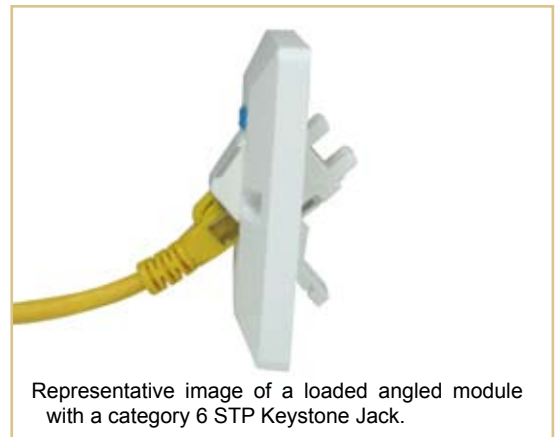
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Our Assets

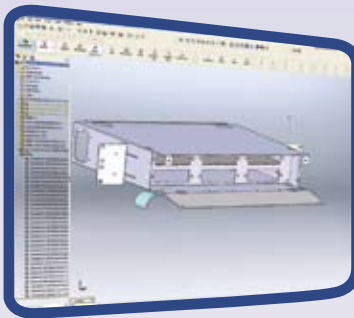**More than 1000 km of fibre optic cable in stock.**

Capacity for international logistics.

Fibrefab have global fibre termination facilities.

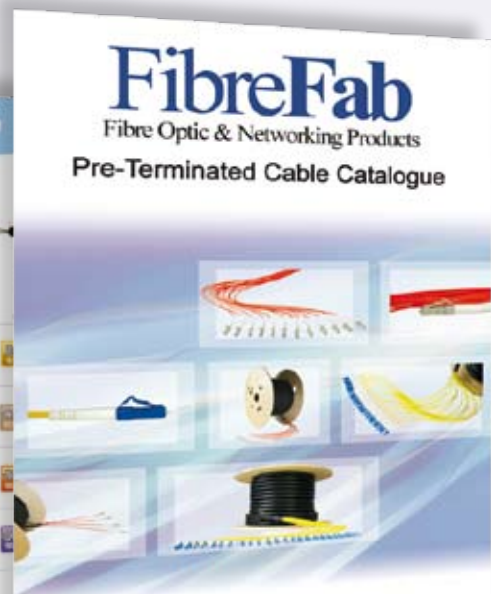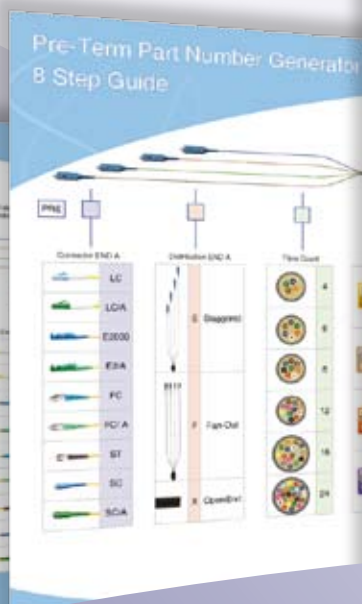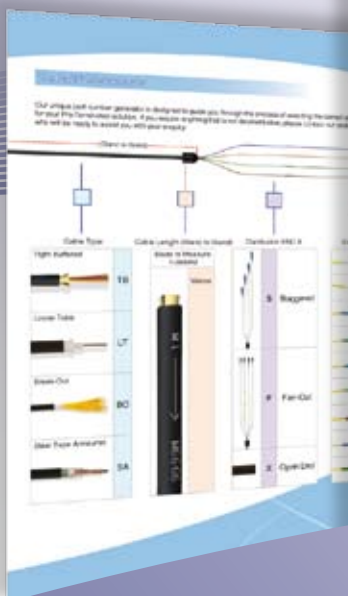**Fibrefab supply an extensive range of pigtails and patchcords.**

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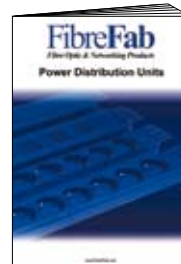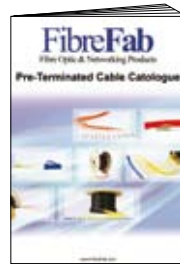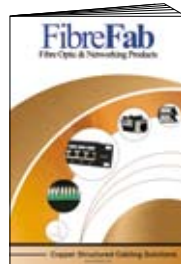
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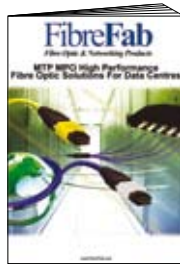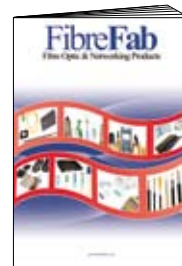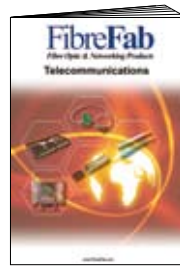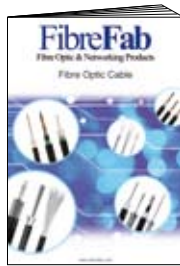
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