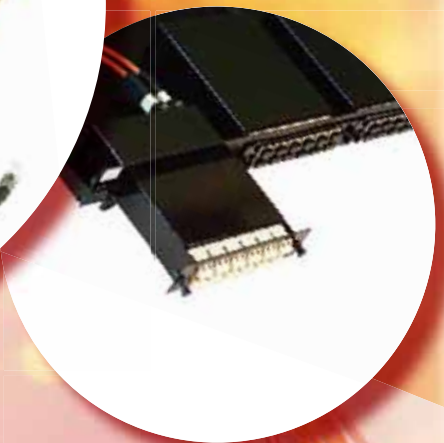




# SofeTEK

Smart Optical Fiber Equipment Technology

## Fiber Optic Networking & Telecommunications





# Who are SofeTEK

Smart Optical Fiber Equipment Technology Ltd (SOFETEK) is a leading manufacturer providing a complete range of Fiber Optics and Copper Networking products used in local or wide area networking and telecommunications applications.

SOFETEK is a reliable partner for all of your cabling needs. We manufacture Fiber Optics and Copper networking products such as passive components (Patch cords, Pigtails, Splitters, WDM, Cat5/6 UTP/FTP, Patch Panels, Wall Boxes and Cabinets, etc.).

Based in Shenzhen, China we have the facilities, resources and structure to support a vast array of customers:

SOFETEK is a high volume manufacturer for passive fiber optic products; with a capacity of more than 100,000 terminations per week. Using state of the art manufacturing procedures and quality management we are recognized a leading manufacturer of fiber optic assemblies.

SOFETEK products are manufactured to IEC, TIA/EIA, Telecordia specifications within ISO9001 approved facilities. All products are ROHS and REACH compliant. In addition, the plant is equipped with comprehensive mechanical, optical and environmental test equipment. As a result, products are manufactured to meet and exceed international standards.

**Please contact our sales office on**

**[enquiries@sofetek.com](mailto:enquiries@sofetek.com)**

**Sales Manager**

**[armand.chaffanjon@sofetek.com](mailto:armand.chaffanjon@sofetek.com)**

## Company Address

No.2708, Hanggang Fuchun Building.

No.6031 ShenNan Middle Road.

Futian District.

ShenZhen City, China



# Contents



## Fiber Optic Assemblies

Patchcords	5
Pigtails	6
Specific Patchcords	7-9
Pre-Terminated Assemblies	10
MPO Solutions	11



## Fiber Optic Passive Components

Adapters	13
Connectors	14
Attenuators	15



## Fiber Optic Cable

Zipcord Optic Cable	17
Duplex Optic Cable	18
Distribution Optic Cable	19
Break-Out Optic Cable	20
Loose Tube Optic Cable	21
GYXTW Optic Cable	22
GYTA Optic Cable	23
GYTS Optic Cable	24
GYTA53 Optic Cable	25
GYTC8S Optic Cable	26



## Telecom Products

Media Converters	47
Couplers/Splitters/WDM	48-49



## Fiber Management

Fixed Patch Panels	28
Sliding Patch Panels	29-30
Empty Chassis Panel	31
Modular Patch Panels	32
Lockable Wall Boxes	33-34
Termination Box	35
Splice Closure	38-42
Wall Mounted Cabinets	43
Floor Standing Cabinets	44
Accessories	45

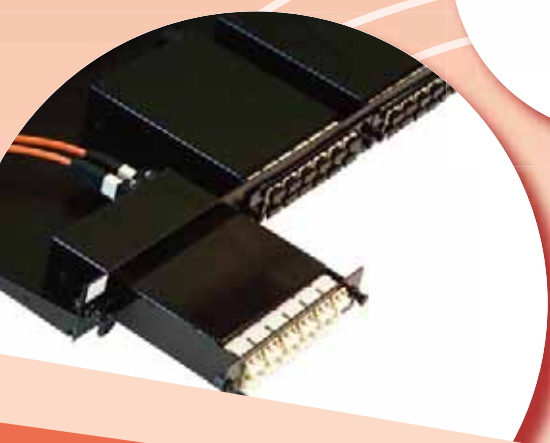
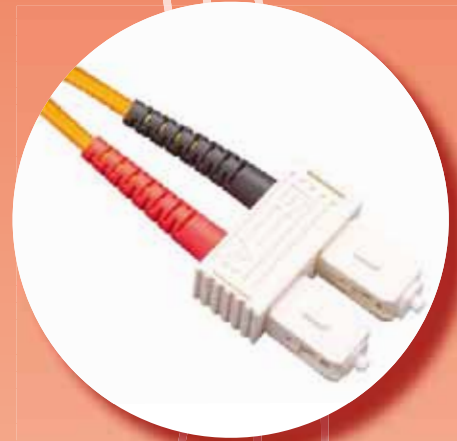


## Equipment & Tools

Polishing Equipment	51-52
Test Equipment	53
Tools & Consumables	54



- Patchcords
- Pigtails
- Specific Patchcords
- Pre-Terminated Assemblies
- MPO Solutions



# FIBER OPTIC ASSEMBLIES

## PATCHCORDS

### PATCHCORDS



### Description

The SofeTEK Optical fiber patchcords are manufactured using the best quality components. The connectors are the market leading SofeTEK range of connectors and the cable exceeds all areas of the standards required for the assembly being produced.

Non-standards patchcords lengths can quickly be made to satisfy any requests in our production facility. This encompasses all of the essential tools to ensure the products not only meet but also exceed the requirements laid down in IEC international standards for fiber optic terminations.

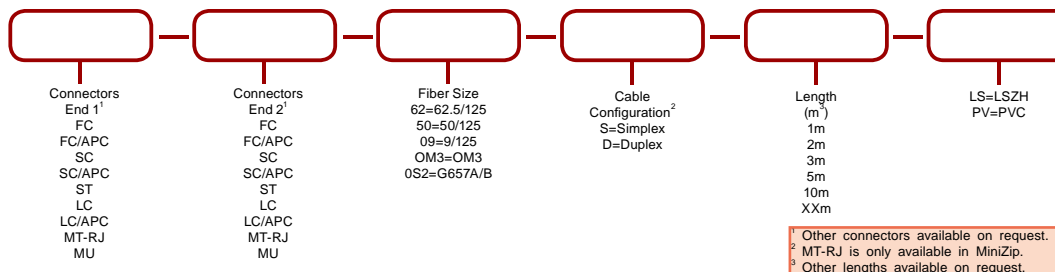
Optical Performance (Multimode)	Optical Performance (Singlemode)		Optical Performance (MT-RJ)
Insertion loss	Insertion loss	Return Loss	Insertion loss
Max. 0.3 dB Typical 0.15 dB	Max. 0.3 dB Typical 0.15 dB	UPC better than 50 dB APC better than 60 dB	Max. 0.7 dB Typical 0.5 dB ( IEC 874-1 method )

### Product Packaging

Each patchcord is packaged individually and individually identified for traceability, test certification is supplied for each assembly.

## ORDERING INFORMATION

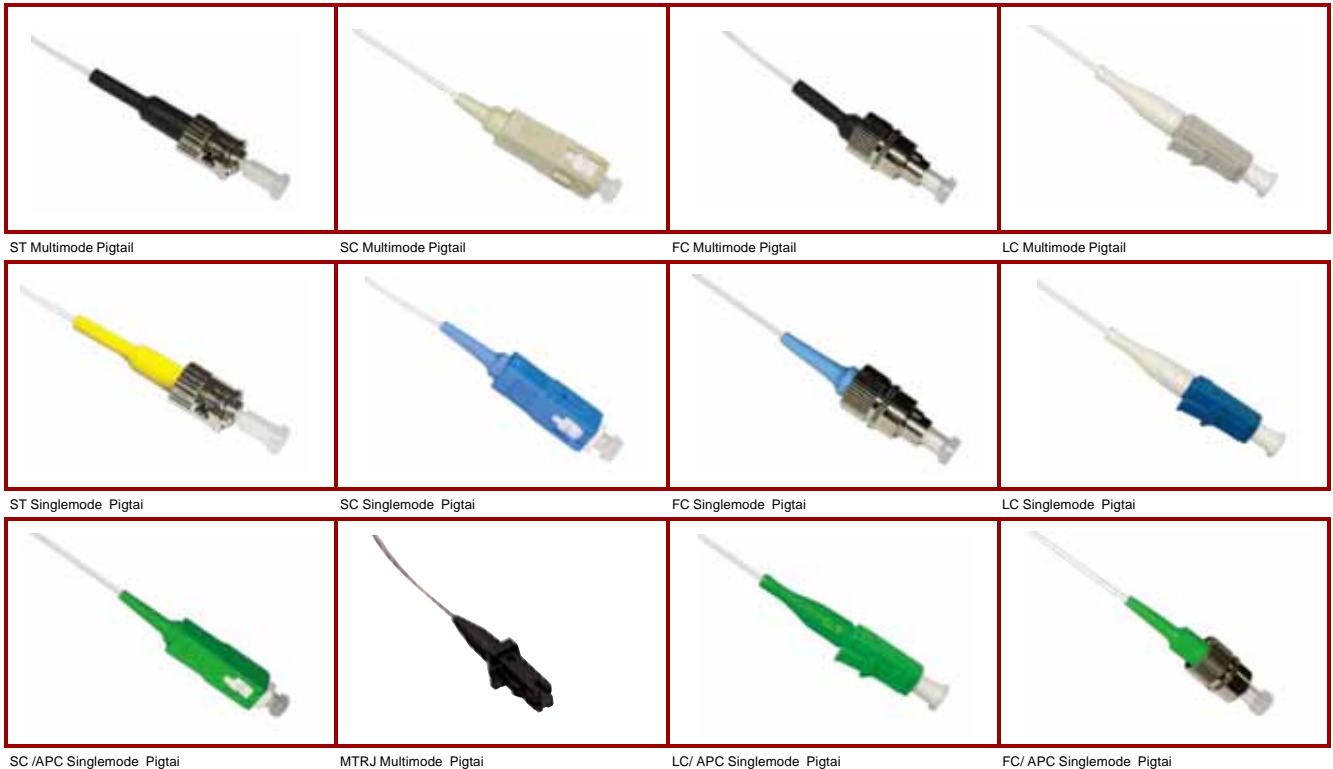
To order optical fiber assemblies the SofeTEK part number follows the following sequence.



# FIBER OPTIC ASSEMBLIES

## PIGTAILS

### PIGTAILS



Optical fiber pigtails are essential when terminating cables within the splice enclosure. Purchasing pre polished assemblies takes the risk of poor connector termination away from the project. Cables terminated within a production facility will give a higher performance than cables terminated on site.

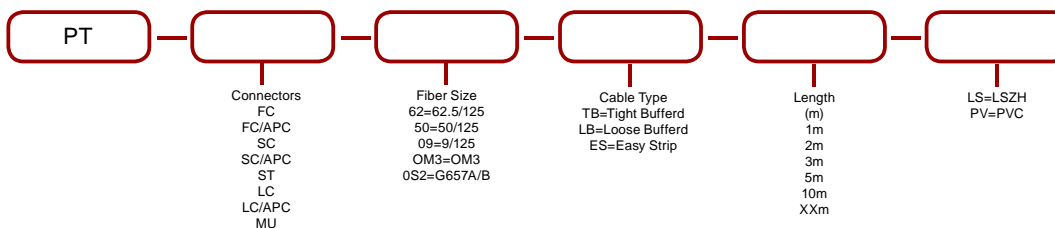
The SofeTEK range of optical fiber pigtails has grown through the years, from every day standard versions to special products to meet your needs. From industry standard 62.5/125 multimode to 9/125 Singlemode right the way up to state of the art OM3 50/125 cable assemblies, SofeTEK can supply them all. With a SofeTEK cable assembly you can be confident you are using the best in cable, connectors and manufacturing.

#### Features

- Multimode & Singlemode applications ST/SC/FC/LC/E2000/MU Connector types
- Ultra polish & Angle polish options available all terminations are manufactured to exceed performance parameters set by industry standards
- Fast turn around of non-standard requirements
- Full tracability & test certification supplied with each assembly

### ORDERING INFORMATION

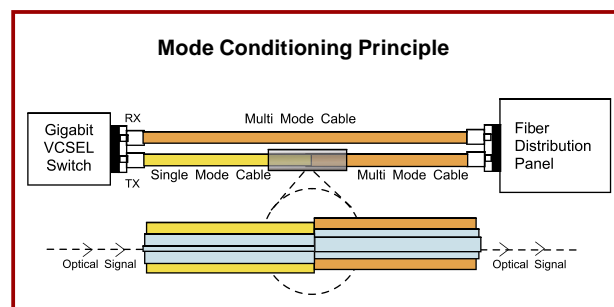
To order optical fiber assemblies the SofeTEK part number follows the following sequence.



# FIBER OPTIC ASSEMBLIES

## SPECIFIC OPTIC PATCHCORDS

### MODE CONDITIONING PATCHCORDS



SofeTEK mode conditioning patchcords are specifically designed for launching your gigabit signal into the conventional 62.5/125 or 50/125 fiber with very high bandwidth. The SofeTEK mode conditioning patchcords can improve the transmission bandwidth by 3 to 4 times and also greatly reduces modal noise.

Description	62.5/125	50/125
Operating wavelength	1310nm	
Maximum insertion loss	0.5dB	
Coupled power ratio(CPR)	28 to 40dB	12 to 20 dB
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 , MT-RJ , MU
Length	2m ± 10mm (Other lengths available to order)
For full information on the SofeTEK connectors used on the SofeTEK patch cords, please contact us for a connector data sheet.	

#### Product Packaging

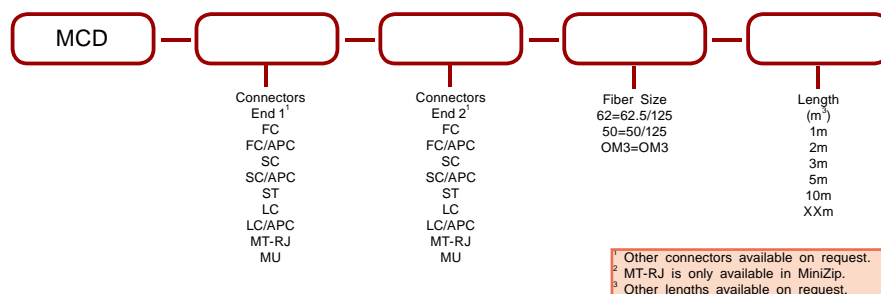
Each patch cord is packaged individually and individually identified for traceability, test certification is supplied for each assembly.

#### Features

- Increased transmission bandwidth by as much as 4 times
- Reduced modal noise
- Easy installation
- Low insertion loss (< 1dB)
- Various connector options

## ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



# FIBER OPTIC ASSEMBLIES

## SPECIFIC OPTIC PATCHCORDS

### ATTENUATED PATCHCORD



SofeTEK high performance attenuated patchcords are used to attenuate the optical signal in a link. Attenuated patch cords 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 the 1310 and 1550nm wavelengths. Attenuated patchcords can be provided with various connector styles SC, ST and FC to meet customer's requirements.

SofeTEK attenuated patchcords comes to you from a world class manufacturing facility backed by 20 years of experience in manufacturing fiber optic passive and active devices. Products coming out of this facility have found worldwide applications in computer networking, telecommunications and cable TV.

#### Features

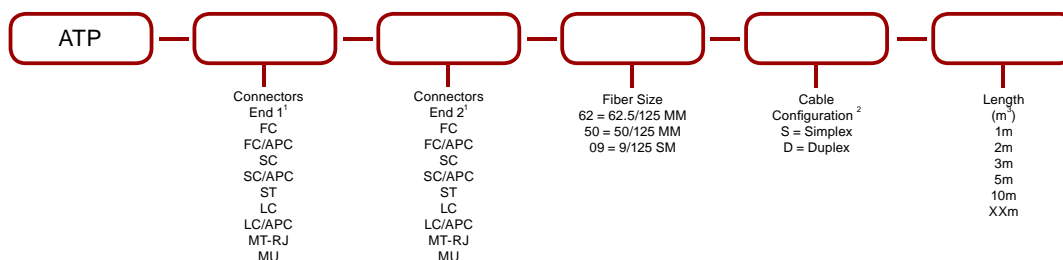
- Provides the functions of attenuator and cable assembly simultaneously
- Low Back Reflection
- 100% Insertion Loss Testing
- Connector varieties available
- Conforms to the requirements of EIA/TIA standards
- Inexpensive and compact

#### Applications

- Telecommunication Networks
- CATV
- LAN and WAN
- Available Attenuation  
(1.0 To 20 dB with 1dB increments)

## ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



<sup>1</sup> Other connectors available on request.

<sup>2</sup> MT-RJ is only available in MiniZip.

<sup>3</sup> Other lengths available on request.



# FIBER OPTIC ASSEMBLIES

## SPECIFIC OPTIC PATCHCORDS

### COLLIMATOR VARIABLE OPTICAL ATTENUATOR (VOA)



#### Features

- Large attenuation range
- Low insertion loss
- High return loss
- High resolution

#### Applications

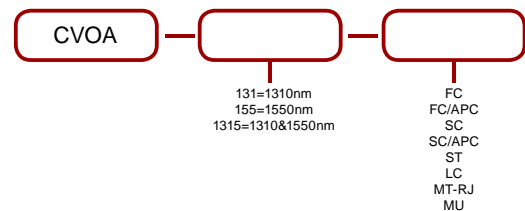
- Optic communication systems
- Fiber CATV
- Testing instrument

SofeTEK's Collimator variable optical attenuator is an useful tool for the optical components and systems test.

Parameter	Type	1310	1550	1310/1550 Dual window
Wavelength(nm)		1310 ±40	1550 ±40	1310 ±40 & 1550 ±40
Attenuation range(dB)		0.6~60	0.6~60	0.8~60
Insertion Loss(dB)		<0.6	<0.6	<0.8
Return loss(dB)		>50		
Resolution(dB)		0.02		
Fiber type		SMF-28		
PDL(dB)		<0.15		
Package(mm)		26x18x8		
Operating temperature(°C)		0~+70		
Storage temperature(°C)		-40~+85		

\* Output connector can be made on customer's request.

### ORDERING INFORMATION



### ALL-FIBER VARIABLE OPTICAL ATTENUATOR (VOA)



#### Features

- Large attenuation range
- Low insertion loss
- High return loss
- High resolution

#### Applications

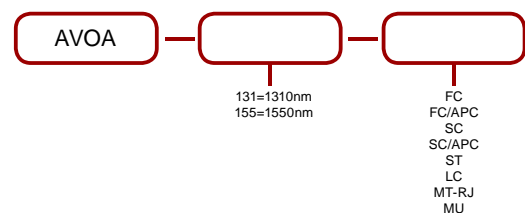
- Optic communication systems
- Fiber CATV
- Testing instrument

SofeTEK's All-Fiber VOA is an all Fiber in-line component. It's compact packaged and it is easy to operate.

Parameter	Type	1310	1550
Wavelength(nm)		1310 ±40	1550 ±40
Attenuation range(dB)		0~40	0~40
Insertion Loss(dB)		0.6	0.2
Return loss(dB)		Typ:50	
Resolution(dB)		<0.2	
Fiber type		SMF-28	
PDL(dB)		<0.15	
Package(mm)		75x55x15	
Operating temperature(°C)		-40~+70	
Storage temperature(°C)		-40~+85	

\* The above specification is without connector.

### ORDERING INFORMATION



# FIBER OPTIC ASSEMBLIES

## PRE-TERMINATED ASSEMBLIES

### PRE-TERMINATED ASSEMBLIES



Each pre-terminated fiber assembly is delivered to the installer with the delicate fibers and connectors protected by a plastic tube. A pulling eye is attached to the strength members of the cable allowing full pulling force to be applied during installation without any risk to the optical fibers.

The assembly is ready to install, right down to the pre-fitted cable glands. Simply remove the pulling eye and protective tubes, feed the fibers into the rear of a sliding tray patch panel, tighten the cable gland to the rear of the panels and the installation is complete.



Standard Construction: Staggered

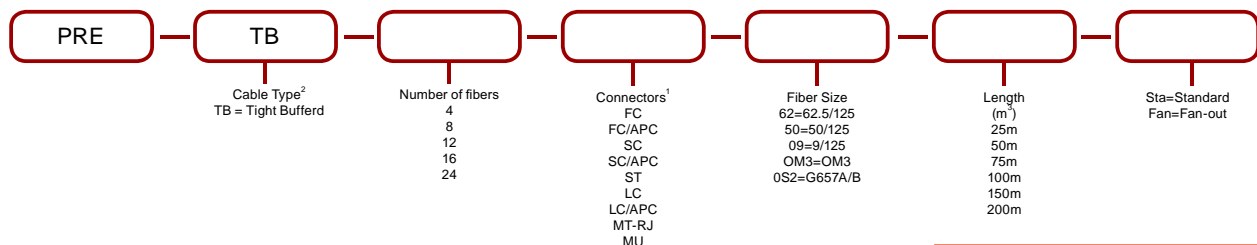
Special Construction : Fan-Out

#### Standard configuration:

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

## ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



<sup>1</sup> Other Connectors Available on Request.  
<sup>2</sup> Tight Buffer LSOH internal/external cable is used as standard.  
<sup>3</sup> Special lengths available on request

# FIBER OPTIC ASSEMBLIES

## MPO SOLUTIONS

### MPO SOLUTIONS

#### MPO Assemblies

SofeTEK offers an extensive line of high-density MPO multifiber connector products including jumpers, fanouts pigtails and connectorized cables.

#### MPO Cable

- OS1,OM1,OM2,OM3.
- Fanouts available with LC, SC, ST, FC, MU, or MT-RJ connectors.
- Available both as patch cable and fanouts.
- No termination needed reduce installation time and costs.

The MPO connector is the most compact connector available on multistrand fiber cables.

MPO Cables are the most compact multifiber cable around. What's more, you get up to 12 fibers in a single cable run.

Run multistrand fiber optic cables without worrying about expensive, time - consuming termination. Because they're preterminated, you can install and test them in the same day.

#### Specifications

Fiber Type 62.5/125  $\mu$ m multimode

Insertion Loss Typical: 0.7 dB;

Maximum: 1.0 dB

MPO Crimp Sleeve Tin-plated copper

MPO Ferrule Reinforced thermoplastic with stainless-steel alignment/guide

MPO Grip Housing VO-rated thermoplastic

MPO Strain-Relief Boot VO-rated thermoplastic rubber



MPO Cable



MPO Module

#### MPO Module

MPO 12 ports SC module

Black module pre-wired for 12 SC connections.

Designed to fit modular sliding tray panel.

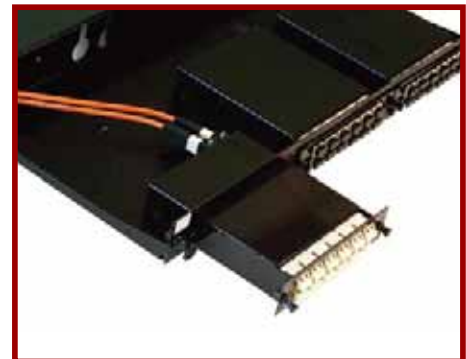
**Part Number: M-MPO-XX-12SC**

MPO 24 port LC module

Black module pre-wired for 24 LC connections via two

MPO connections. Designed to fit modular sliding tray panel.

**Part Number : M-MPO-XX-24LC**



Modular Patch Panel

#### Modular Patch Panel

19" 1u Black sliding tray patch panel for 3 modules.

Supports up to 36 SC connections with 3 MPO links or 72 MTRJ / LC connections with 6 MPO links.

**Part Number : SP13XXX00**

#### MPO Fan-out

MPO fan-out for use inside patch panels and wall boxes.

Available in SC, ST, FC, LC & MTRJ terminations.

12 way MPO to 12 SC,

**Part Number: F-MPO-XX-12SC**

12 way MPO to 12 LC,

**Part Number: F-MPO-XX-12LC**



Fan-out MPO

XX=OS1,OM1,OM2,OM3

- Adapters
- Connectors
- Attenuators





# FIBER OPTIC PASSIVE COMPONENTS

## ADAPTERS

### ADAPTERS



### MT-RJ & MPO & HYBRID ADAPTERS



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

The SofeTEK optical fiber adapters are precision made to ensure perfect alignment of connectors, reducing insertion loss. In most cases the sleeve is the critical part of the system that aligns the ferrule part of the connectors keeping the fibers in perfect alignment. Generally there are 2 types of alignment sleeve within an adapter, phosphor bronze for multimode or zirconia (ceramic) for singlemode.

In the case of the MT-RJ and 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.

#### Product Packaging

Each patchcord is packaged individually and individually identified for traceability, test certification is supplied for each assembly.

#### Features

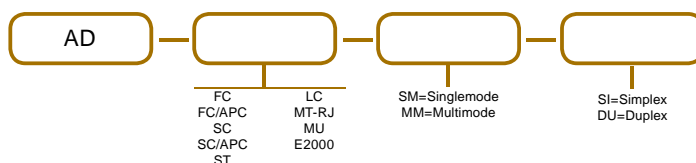
- Available as FC, SC, ST, LC, MT-RJ and MPO
- Available in simplex, duplex, quad(LC) and hybrid versions
- High precision zirconia or standard phosphor bronze sleeves
- Low insertion loss
- High repeatability and stability

#### Applications

- Fiber distribution
- LAN and WAN
- FTTX applications
- CATV
- Testing instruments
- Telecommunications systems

## ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



Other connectors available on request.

# FIBER OPTIC PASSIVE COMPONENTS

## CONNECTORS

### CONNECTORS



#### Description

The connectors are mainly used in the telecommunications market due to precision interconnect and secure connection, but can be seen in every area of the communications environment.

The SofeTEK connectors are manufactured using the best quality components. The connector exceeds all areas of the standards covering optical fiber connectors.

Optical Performance (Multimode)	Optical Performance (Singlemode)		Intermateability	Mechanical		
Insertion loss	Insertion loss	Return Loss	Optically and mechanically compatible with all equivalent connectors. (Compliant with IEC 61754-13)	Capillary diameter tolerance: SM-126 $\pm 0.5\mu\text{m}$ MM-127 $\pm 0.5\mu\text{m}$	Ferrule Diameter: 2.5 $\pm 0.001\text{mm}$ 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)
Max. 0.3 dB Typical 0.15 dB	Max. 0.3 dB Typical 0.2 dB	UPC>50dB Typical 55dB APC>60dB Typical 65 dB				

#### Product Packaging

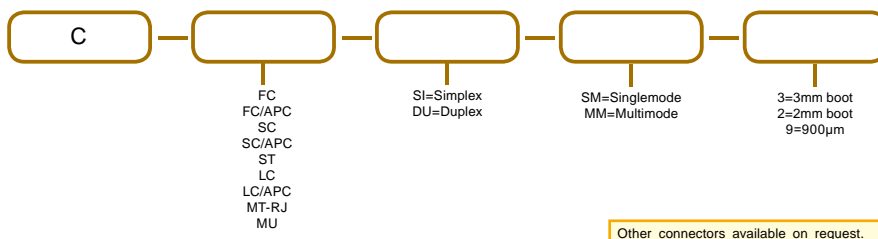
Standard packaging: 100pcs bulk packed Special packaging available by request Termination Procedures Prep cable end

#### Options

Connector versions available for : 3mm Cable , 2mm Cable and 900 $\mu\text{m}$  , Buffered Fiber

### ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



# FIBER OPTIC PASSIVE COMPONENTS

## ATTENUATORS

### PLUG-IN TYPE FIXED ATTENUATOR



SC Attenuator

FC Attenuator

LC attenuator

MU Attenuator

Adopting advanced attenuation fiber technology, SofeTEK plug-in type fixed value attenuator features high power endurance and low backreflection, suitable for high speed digital transmission and analog applications. Available in singlemode or multimode, FC, SC, ST, LC and MU type.

#### Description

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

For full information on the full range SofeTEK products, please contact the address below for a data sheet.

<b>Dimensions</b>	FC -10mm (OD) x 30mm (L)	SC -35mm (L) x 12.7mm (W) x 9.5mm (D)	LC -33mm (L) x6mm (W) x 10mm (D)
<b>Reflectance</b>	UPC≥ 55dB APC≥ dB		
<b>Attenuation Tolerance</b>	Attenuators≤ 5dB ± 0.5dB attenuators, 6 to 30 dB ± 10% of attenuation		
<b>International Standard</b>	Telcordia GR-910-CORE SC / FC / LC / MU 1 to 30dB with 1dB increments(or custom attenuation within this range) 1310nm and 1550nm (Or single wavelength) Digital Band 1260-1360nm and 1430-1580nm(BellcoreSpec.) S + C + L Band 1480-1610nm Special Bandpass 1310±25nm and 1470-1610nm Single Window 1280-1340nm or 1510-1590nm Dual Window 1310 and 1550nm (±25nm)		

#### Product Packaging

Each Attenuator is packaged individually.

#### Features

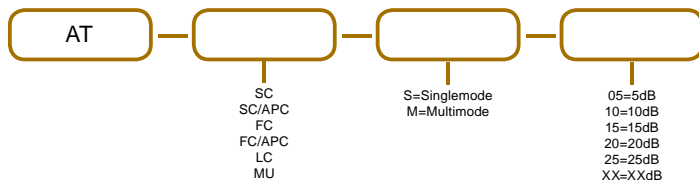
- Plug-in type package
- Accurate attenuation
- Ultra low back reflection
- Broad wavelength band
- Flat response over all wavelengths
- Environmentally stable
- Quick delivery

#### Applications

- Telecommunication networks
- Fiber optic sensors
- Test and Measurement
- CATV
- LAN and WAN
- FTTx
- Attenuation values available

### ORDERING INFORMATION

To order optical fiber assemblies the SofeTEK part number follows the following sequence.



Other versions available to special order

- Zipcord (Simplex, Duplex) Optic Cable
- Duplex Optic Cable
- Distribution Optic Cable
- Break-Out Optic Cable
- Loose Tube Optic Cable
- GYXTW Optic Cable
- GYTA Optic Cable
- GYTS Optic Cable
- GYTA53 Optic Cable
- GYTC8S Optic Cable





# FIBER OPTIC CABLE

## INDOOR OPTICAL FIBER CABLE

### ZIPCORD (SIMPLEX, DUPLEX) OPTIC CABLE

#### Cable Design

- Optical Fiber
- Tight Buffer
- Aramid Yarn
- Strength Member
- Outer Sheath

#### Features

- Choice of Fiber Type
- Choice of Outer Diameter
- High Strength Aramid Yarn Strength Member
- Easy to Strip
- Choice of Outer Sheath Material
- Choice of Outer Sheath Colour

#### Main Applications

Building to building interconnection; indoor distribution; pigtail of the instrument-type communication equipment, as the moveable connect line for patch cords and connectors

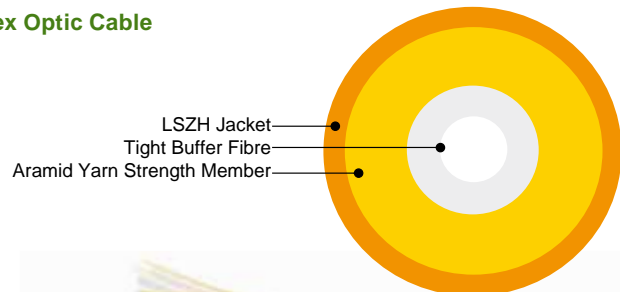
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C  
Storage temperature range: -20°C to +60°C

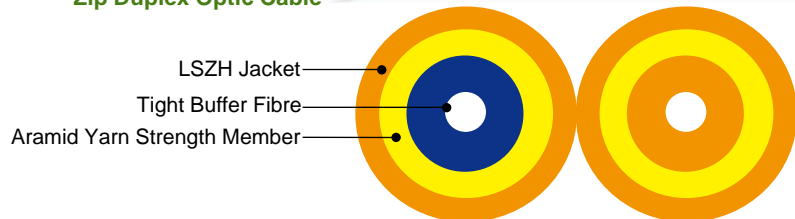
#### Environmental Characteristics

This Cable meets RoHS requirements

#### Zip Simplex Optic Cable



#### Zip Duplex Optic Cable



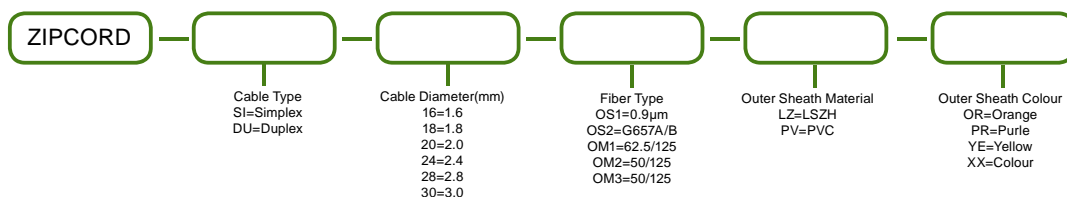
#### Technical Characteristics

Simplex Optical Fiber Cable						
Outer Diameter	mm	1.6	1.8	2.0	2.4	3.0
Normal Weight	kg/km	2.6	3.0	3.5	5.0	6.8
Long term tensile strength	n	40	40	60	60	80
Short term tensile strength	n	80	80	100	100	150
Minimum Static bending radius	m	10D				
Minimum Dynamic bending radius	m	20D				
Long term crush resistance	N	500				
Short term crush resistance	N	100				

Duplex Optical Fiber Cable						
Outer Diameter	mm	1.6X3.3	1.8X3.7	2.0X4.1	2.8X5.7	
Normal Weight	kg/km	5.7	6.7	8.2	13.2	
Long term tensile strength	n	40	40	60	60	
Short term tensile strength	n	160	160	200	300	
Minimum Static bending radius	m	10H				
Minimum Dynamic bending radius	m	20H				
Long term crush resistance	N	500				
Short term crush resistance	N	100				

## ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.

# FIBER OPTIC CABLE

## INDOOR OPTICAL FIBER CABLE

### DUPLEX OPTIC CABLE

#### Cable Design

- Optical Fiber
- Tight Buffer
- Aramid Yarn Strength Member
- Inner Sheath
- Outer Sheath

#### Features

- Choice of Fiber Type
- Choice of Outer Diameter
- High Strength Aramid Yarn Strength Members
- Easy to Strip
- Choice of Outer Sheath Material
- Choice of Outer Sheath Colour

#### Main Applications

Indoor horizontal and vertical laying, direct connection to outdoor cables

As pigtail for communication equipment and cable for patchcords and connectors.

#### Temperature Characteristics

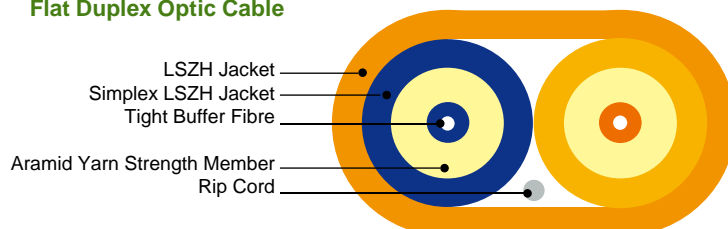
Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

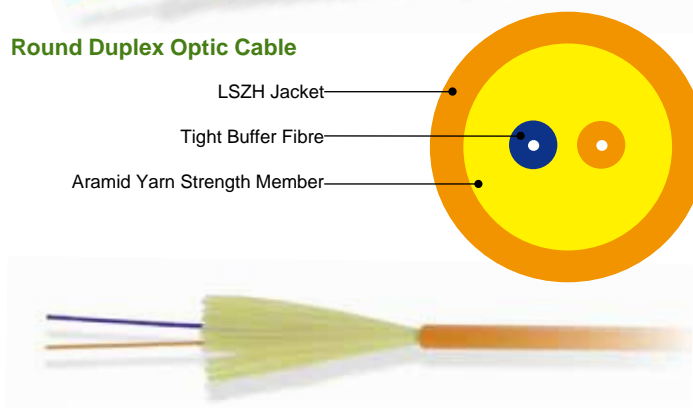
#### Environmental Characteristics

This Cable meets RoHS requirements

#### Flat Duplex Optical Cable



#### Round Duplex Optical Cable



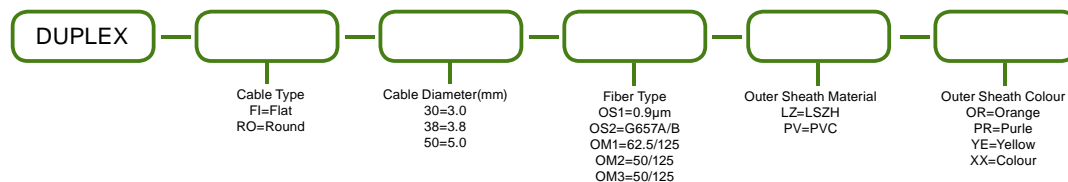
#### Technical Characteristics

Flat Duplex Optical Fiber Cable			
Outer Diameter	mm	3.0x5.0	3.8x6.6
Tight buffer diameter	μm	900±50	
Subunit Simplex diameter	mm	2.0±0.1	2.8±0.1
Normal Weight	kg/km	18	31
Long term tensile strength	mm	120	120
Short term tensile strength	N	250	250
Minimum Static bending radius	mm	10H	
Minimum Dynamic bending radius	mm	20H	
Long term crush resistance	N	500	
Short term crush resistance	N	100	

Round Duplex Optical Fiber Cable			
Outer Diameter	mm	3.0	5.0
Normal Weight	kg/km	7.6	19.0
Long term tensile strength	mm	40	160
Short term tensile strength	N	80	80
Minimum Static bending radius	m	10D	
Minimum Dynamic bending radius	m	20D	
Long term crush resistance	N	500	
Short term crush resistance	N	100	

### ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.

# FIBER OPTIC CABLE

## INDOOR OPTICAL FIBER CABLE

### DISTRIBUTION OPTIC CABLE

#### Cable Design

- Optical Fiber
- Tight Buffer
- Aramid Yarn Strength Member
- Outer Sheath

#### Features

- Choice of Fiber Type
- Choice of Outer Diameter
- High Strength Aramid Yarn Strength Members
- Easy to Strip
- Choice of Outer Sheath Material
- Choice of Outer Sheath Colour

#### Main Applications

As connecting cables between buildings; as connecting soft cable along wall, ceiling, layers and tubes; as pigtail of communication equipment; as the moveable connecting cable and patchcord

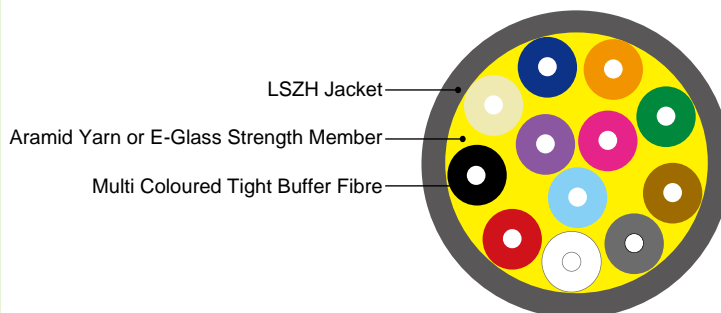
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

#### Environmental Characteristics

This Cable meets RoHS requirements

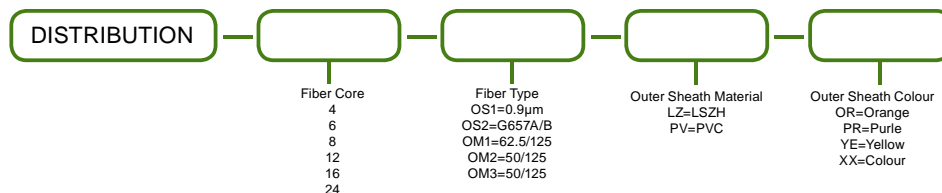


#### Technical Characteristics

Distribution Optical Fiber Cable							
Fiber Core		4	6	8	12	16	24
Normal Weight	kg/km	4.6	5.0	6.2	6.8	7.4	8.4
Outer Diameter	mm	19	23	29	33	53	60
Normal Drum Dimensions	mm	630	630	760	760	760A	900
Drum Weight	kg/pcs	25	25	25	33	33	54
Long term tensile strength	N	130	130	130	130	200	240
Short term tensile strength	N	440	440	440	440	600	720
Minimum Static bending radius		10D					
Minimum Dynamic bending radius		20D					
Long term crush resistance	N	200					
Short term crush resistance	N	1000					

### ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.  
The Drum weight not includes the wood battens around the drum.

# FIBER OPTIC CABLE

## INDOOR OPTICAL FIBER CABLE

### BREAK-OUT OPTIC CABLE

#### Cable Design

- Simplex cable
- FRP Strength Member
- Water Blocking Tape
- Outer Sheath

#### Features

- Choice of Fiber Type
- Individual aramid yarn strength members
- Easy to use
- Lightweight and compact
- Choice of Outer Sheath Material
- Choice of Outer Sheath Colour

#### Main Applications

Internal break-out cable for horizontal distribution

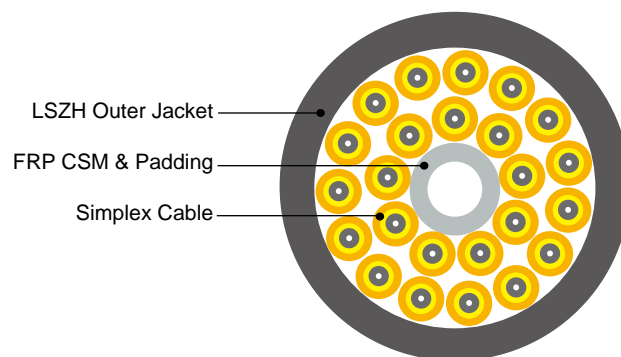
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

#### Environmental Characteristics

This Cable meets RoHS requirements

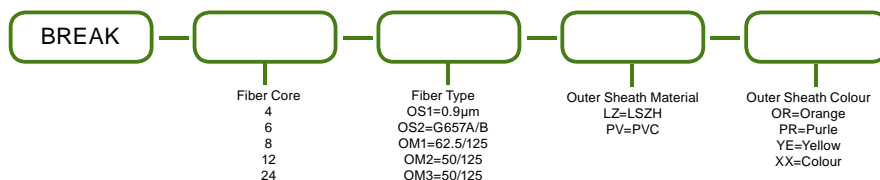


#### Technical Characteristics

Fiber Number	OD	Cable Weight	Drum Dimensions	Drum Weight	Min. Bend Radius		Max. Tension (N)	
					Static	Dynamic	Short terms	Long terms
2	7.2	45	800	43	10D	20D	6600	220
4	7.2	54	800	43				
6	8.3	75	900	54				
8	9.4	100	900	54				
12	12.2	170	1100	76				
24	15.6	230	1300	108				

## ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.  
The Drum weight not includes the wood battens around the drum.



# FIBER OPTIC CABLE

## INDOOR/OUTDOOR OPTICAL FIBER CABLE

### LOOSE TUBE OPTIC CABLE (4-144 CORE)

#### Cable Design

- Optical Fiber
- Fiber Jelly
- Loose Tube
- FRP Strength Member
- Aramid Yarn or E-Glass Strength Member
- Outer Sheath

#### Features

- Choice of Fiber Type
- Colour code of Fiber
- Choice outer sheath material

#### Main Applications

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

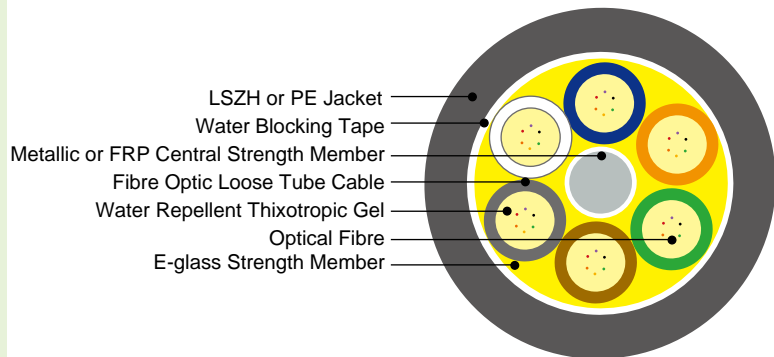
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

#### Environmental Characteristics

This Cable meets RoHS requirements

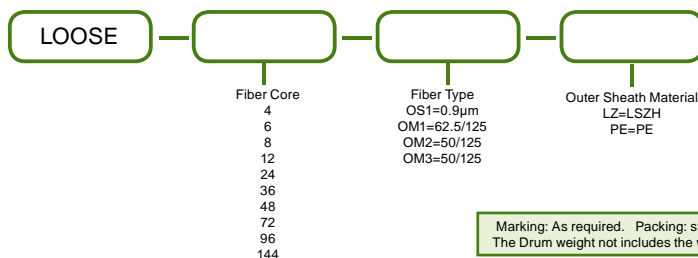


#### Technical Characteristics

Fiber Number	OD	Cable Weight	Drum Dimensions	Drum Weight	Min. Bend Radius		Max. Tension (N)		Crush Loading (N/100mm)	
					Static	Dynamic	Short terms	Long terms	Short terms	Long terms
4	6.5	35	800	43	10XD	20XD	1000	500	1000	300
6	6.5	35	800	43						
8	6.5	35	800	43						
12	6.5	35	800	43						
24	12.4	150	1100	76			1500	600	1000	300
36	12.4	150	1100	76						
48	12.4	150	1100	76						
72	14.0	200	1200	94						
96	14.0	200	1200	94						
144	17.8	250	1400	158						

## ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.  
The Drum weight not includes the wood battens around the drum.

# FIBER OPTIC CABLE

## OUTDOOR OPTICAL FIBER CABLE

### CORRUGATED STEEL TAPE ARMoured

#### Cable Design

- Optical Fiber
- Fiber Jelly
- Loose Tube
- Steel Wire Strength Member
- Jelly Filled
- Steel Tape
- Outer Sheath

#### Features

- Choice of Fiber Type
- Colour code of Fiber
- High water resistance
- PE Outer Sheath

#### Main Applications

Suitable for external applications in ducts,

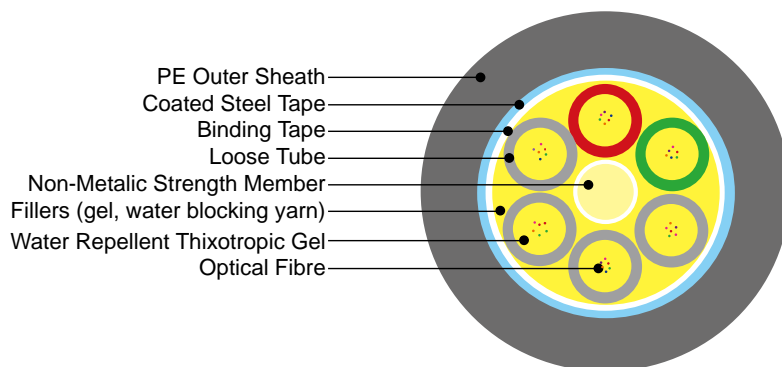
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

#### Environmental Characteristics

This Cable meets RoHS requirements

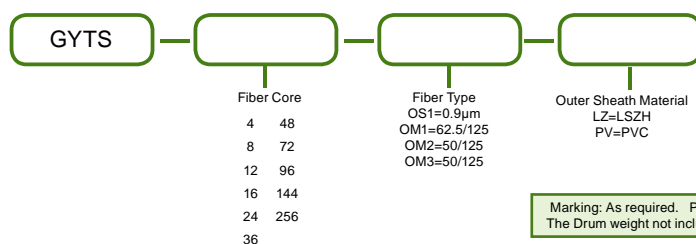


#### Technical Characteristics

Fiber Number	OD	Cable Weight	Drum Dimensions	Drum Weight	Min. Bend Radius		Max. Tension (N)		Crush Loading (N/100mm)	
					Static	Dynamic	Short terms	Long terms	Short terms	Long terms
4	10.1	105	900	54	10XD	20XD	1500	600	300	1000
8	10.1	105	900	54						
12	10.1	105	900	54						
16	10.1	105	900	54						
24	10.6	105	900	54						
36	11.1	116	1000	67						
48	11.4	135	1000	67						
72	11.9	160	1100	76						
96	12.9	170	1100	95						
144	16.3	260	1300	108						
256	18.7	295	1400	158						

### ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



# FIBER OPTIC CABLE

## AERIAL FIBER CABLE

### GYTC8S

#### Cable Design

- Optical Fiber
- Fiber Jelly
- Loose Tube
- Steel Wire Strength Member
- Jelly Filling
- Al/PET Tape
- Outer Sheath
- Steel Wire Messenger
- Outer sheath of Messenger

#### Features

- Choice of Fiber Type
- Colour code of Fiber
- High water resistance
- Self-Support
- PE Outer Sheath

#### Main Applications

The figure of 8 cables are suitable for installation in aerial environments

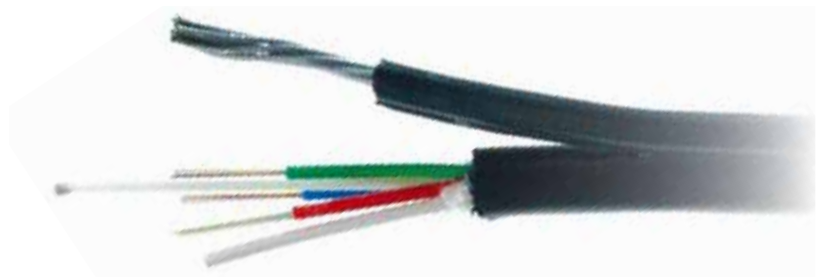
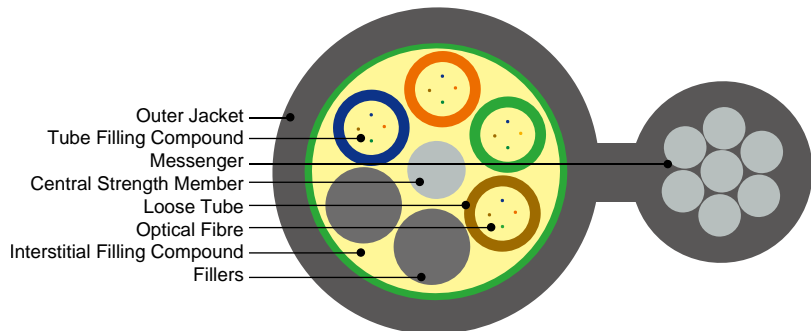
#### Temperature Characteristics

Operate temperature range: -20°C to +60°C

Storage temperature range: -20°C to +60°C

#### Environmental Characteristics

This Cable meets RoHS requirements

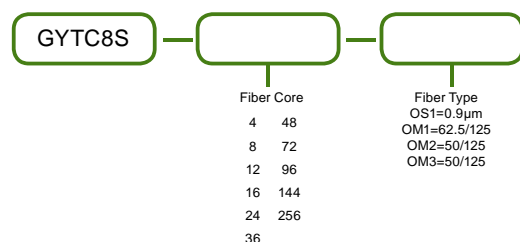


#### Technical Characteristics

Fiber Number	OD	Cable Weight	Drum Dimensions	Drum Weight	Min. Bend Radius		Max. Tension (N)		Crush Loading (N/100mm)	
					Static	Dynamic	Short terms	Long terms	Short terms	Long terms
4	9.8x18.8	210	1100	76	10XD	20XD	7000	3500	2000	1000
8	9.8x18.8	210	1100	76						
12	9.8x18.8	210	1100	76						
16	9.8x18.8	210	1100	76						
24	10.2x19.3	230	1100	76						
36	10.2x19.3	116	1100	76						
48	10.7x19.7	230	1100	76						
72	11.3x20.3	255	1200	94						
96	12.9x21.9	350	1300	108						
144	16.3 x22.7	390	1400	158						

## ORDERING INFORMATION

To order optical fiber cables the SofeTEK part number follows the following sequence.



Marking: As required. Packing: standard 2000m or as required.  
The Drum weight not includes the wood battens around the drum.

- Fixed Patch Panels
- Sliding Patch Panels
- Empty Chassis Panel
- Modular Patch Panels
- Double Door Lockable Wall Boxes
- Single Door Lockable Wall Boxes
- Cable Accessories
- Splice Closure
- Wall Mounted Cabinets
- Floor Standing Cabinets
- Accessories





# FIBER MANAGEMENT

## FIXED PATCH PANELS

### FIXED PATCH PANELS

The fixed patch panel system in its basic form is supplied with the panels unloaded without adapters 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 pre-loaded with pigtails to meet your project needs. SofeTEK has an extensive range of 19" fixed patch panels, and with its own fiber optic engineers and design team can offer its customers a unique ability to design bespoke patch panels to order.

Plan view



Recess option



Rear view



Secured lid



### 1U PATCH PANELS



Part No.:FP0016SCM



Part No.:FP0124SCM



Part No.:FP0224SCS



Part No.:FP0312SCM

### Features

- Recessed panel option
- Recessed adaptors giving better bend radius
- Environmentally friendly materials & packaging
- No exposed screws
- Screen printed for easy labelling
- Multi functional rear cable entry options
- Easy, flexible cable routing
- Lightweight yet strong and durable
- Panel number & rack number identification labels
- High quality finish, no sharp edges

### Specifications

- 1.2mm cold rolled steel
- Powder coated
- RoHS compliant

### 1U FIXED PATCH PANELS

Description
FP00 16 Position ST / FC Patch Panel
FP01 24 Position ST / FC Patch Panel
FP02 24 Position SC / LC / MTRJ / E2000 Patch Panel
FP03 12 Position SC Duplex / LC QUAD Patch Panel

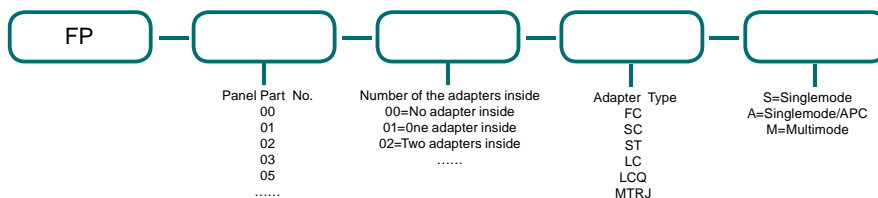
### Specification

Width	Depth	Height	Weight	Colour
19"-483mm	200mm	1U	2.8kg Fully loaded	Black RAL9004

Cable entry 4X20mm gland holes 2x25mm slotted holes.

## ORDERING INFORMATION

To order patch panels the SofeTEK part number follows the following sequence.



# FIBER MANAGEMENT

## SLIDING PATCH PANELS

### SLIDING PATCH PANELS

The sliding patch panel system in its basic form is supplied with the panels unloaded without adapters 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 pre-loaded with pigtails to meet your project needs. The tray is locked in place with two simple to operate plastic catches, when fully extended the tray is designed to lower to 45°, or move the tray to the side and it will lock to lower only 10°. This provides the perfect working platform for simple installation or easy maintenance and access even after the panel is installed in the rack.

**Plan view**



**Recess option**



**Panel packaging**



**Rear view**



**45° working angle**



**Secured lid**



#### Features

- Recessed panel option
- Recessed adapters giving better bend radius
- Environmentally friendly materials & packaging
- No exposed screws
- Screen printed for easy labelling
- 45° working angle
- Multi functional rear cable entry options
- Panel number & rack number identification labels
- High quality finish, no sharp edges
- 4 cable entries (2XPG16 , 2XPG13.5)

#### Specifications

- 1.2mm cold rolled steel
- Powder coated in black or grey (RAL7035)
- RoHS compliant

# FIBER MANAGEMENT

## SLIDING PATCH PANELS

### SLIDING PATCH PANELS



Part No.:SP0016STM



Part No.:SP0324SCM



Part No.:SP0712SCM



Part No.:SP0124STM



Part No.:SP0508SCM



Part No.:SP0924SCM

#### Sliding Patch Panels

##### Description

SP00 16 Position ST / FC Patch Panel BLACK
SP01 24 Position ST / FC Patch Panel BLACK
SP03 24 Position SC / LC / E2000 Patch Panel BLACK
SP05 8 Position SC Duplex / LC QUAD Patch Panel BLACK
SP07 12 Position SC Duplex / LC QUAD Patch Panel BLACK
SP09 24 Position SC Duplex / LC QUAD Patch Panel BLACK

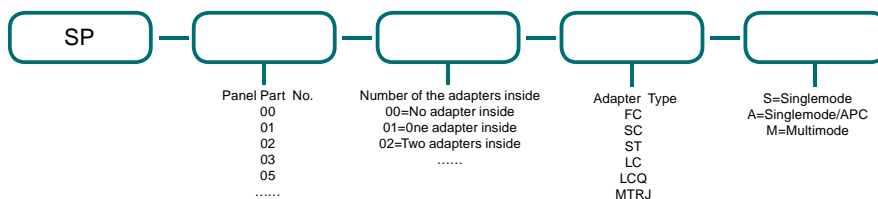
#### Specifcation

Width	Depth	Height	Weight	Colour
19"-483mm	200mm	1U	2.8kg Fully loaded	Black RAL9004

Cable entry 4X10mm gland holes 2X20mm gland holes

## ORDERING INFORMATION

To order patch panels the SofeTEK part number follows the following sequence.



# FIBER MANAGEMENT

## SLIDING EMPTY CHASSIS PANEL

### SEC-1U EMPTY CHASSIS PANEL FOR OPTIONAL REMOVABLE FRONT PLATE



Part No.:SEC



PL0112SCS



PL0224STS



PL0324LCS



PL0412SCS



PL0524SCS



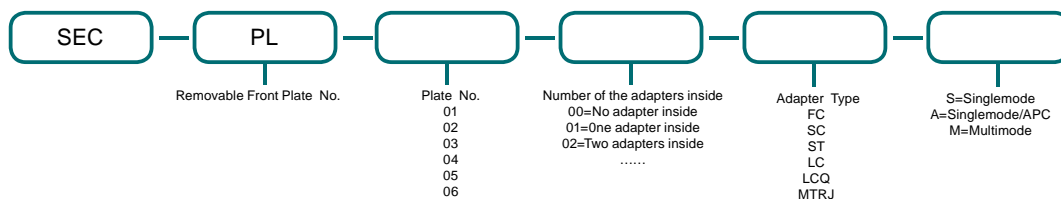
PL0608SCS

#### Specifcation

Width	Depth	Height	Weight	Colour
19"483mm	200mm	1U(40mm)	2.12kg Unloaded	Black RAL9004

## ORDERING INFORMATION

To order patch panels the SofeTEK part number follows the following sequence.



# FIBER MANAGEMENT

## MODULAR PATCH PANELS

### MODULAR PATCH PANELS

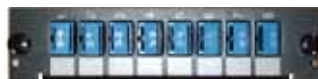
The Modular patch panel system in its basic form is supplied with the panels unloaded without adapter plates. The panel can also be pre-loaded with any 3 combination of adapter plates of your choice, or pre-loaded with pigtails to meet your project needs. An optional simple splice management kit can also be included. The tray is locked in place with two simple to operate plastic catches, when fully extended the tray is designed to lower to 45°, or move the tray to the side and it will lock to lower only 10°. This provides the perfect working platform for simple installation or easy maintenance and access even after the panel is installed in the rack.



Part No.:SP13



LGX0108SCM



LGX0108SCS



LGX0108SCA



LGX0108LCM



LGX0108LCS



LGX0108LCA



LGX0108E2M



LGX0108E2S



LGX0108E2A



LGX0108MTR



LGX0208FCM



LGX0208FCS



LGX0208FCA



LGX0208STM



LGX0208STS



LGX0306SCM



LGX0306SCS



LGX0306SCA



LGX0306LQM



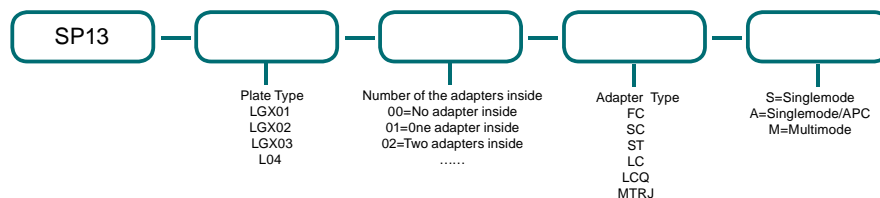
LGX0306LQS



L04

### ORDERING INFORMATION

To order patch panels the SofeTEK part number follows the following sequence.





# FIBER MANAGEMENT

## WALL BOXES

### LOCKABLE WALL BOXES

The 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 and simple splice management kit, or pre-loaded with pigtails to meet your project needs.

**Double door**



**Bend radius & cable exit right**

**Single door**



**Bend radius & cable exit left**

**Single door**



**Secure lock**



#### Features

- Available in single and double door models.
- Double door models include two separate locks for security.
- Internal bend radius protection included.
- Cable entry and exit points can be knocked out to suit installation.

#### Applications

- Internal use only.
- For use in Multi dwellings or as a demarcation point within a network.

### DOUBLE DOOR LOCKABLE WALL BOXES



SWB08

#### Double door lockable wall boxes

Description
SWB06 - Lockable 96 Position ST / FC Double Door Wall Box
SWB07 - Lockable 72 Position SC / LC / E2000 / MTRJ Double Door Wall Box
SWB08 - Lockable 48 Position SC Duplex / LC QUAD Double Door Wall Box
SWB09 - 4 Position Modular Double Door Lockable Wall Box

#### Specification

Width	Depth	Height	Weight	Colour
358mm	121mm	360mm	6kg Unloaded	Grey RAL7095

4X20mm and 4X25mm cable entry, top and bottom . 2X slotted cable exit.

# FIBER MANAGEMENT

## WALL BOXES

### SINGLE DOOR LOCKABLE WALL BOXES



SWB12



SWB05

#### Double door without inside door lockable wall boxes

##### Description

SWB10 - Lockable 96 Position ST / FC Single Door Wall Box
SWB11 - Lockable 72 Position SC / LC / E2000 / MTRJ Single Door Wall Box
SWB12 - Lockable 48 Position SC Duplex / LC QUAD Single Door Wall Box
SWB15 - 4 Position Modular Single Door Lockable Wall Box

##### Specification

Width	Depth	Height	Weight	Colour
358mm	121mm	360	6kg Unloaded	Grey RAL7095

4X20mm and 4X25mm cable entry, top and bottom . 2X slotted cable exit.

#### Single door lockable wall boxes

##### Description

SWB03-Lockable 12 Position SC Duplex / LC QUAD Single Door Wall Box
SWB04 - Lockable 18 Position SC / LC / E2000 / MTRJ Single Door Wall Box
SWB05 - Lockable 24 Position ST / FC Single Door Wall Box

##### Specification

Width	Depth	Height	Weight	Colour
225mm	50mm	270mm	2kg Fully loaded	Grey RAL7095

Cable entry 2X20mm gland holes

### MIN WALL BOXES



SWB16

#### Single door lockable wall boxes

##### Description

SWB14-12 Position Min Wall Enclosure FC/ST
SWB16-12 Position Min Wall Enclosure SC/LC/E2000/MTRJ

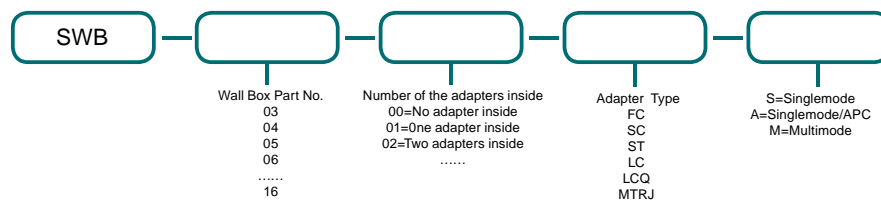
##### Specification

Width	Depth	Height	Weight	Colour
315mm	40mm	200mm	1.5kg charge	Grey RAL7095

Cable entry 1X20mm gland holes

### ORDERING INFORMATION

To order wall boxes the SofeTEK part number follows the following sequence.



# FIBER MANAGEMENT

## TERMINATION BOX

### TERMINATION BOX

Termination box is suitable for jointing fiber to fiber pigtail and it protects fiber optic splices and helps to distribute . The termination box is a wall mounting type or desktop type, which is mainly used in telecommunication equipment room and network equipment room.



TBA



#### Features

- TBA is designed in up-down bisection. Its installation is quite simple. By untightening one piece of fixing nut, it succeeds in opening the housing and allows fiber cable and pigtails to pass in and out in one side. The termination box is made of high-strength polycarbonate plastic materials, which has mechanical strength.
- SLIDE-IN-LOCK OFST with its opening angle above 90 degree makes it easy for installation and maintenance. When distribution of pigtail can not be determined (it is not used for the moment), it is possible to wind pigtail into clasp. Whenever it is needed, the connector could be installed outside of the housing, therefore it can connect termination equipment without connecting adapters.

#### THE ORDERING GUIDANCE

Type	Max. capacity(core)	Optical Fiber Splice Tray(OFST) (including heat shrinkable protective sleeve)	Measurement
TBA-06	6	1 piece of FOST with 6 cores	265x153x42
TBA-12	12	2 piece of FOST with 6 cores	265x153x42
TBA-18	18	3 piece of FOST with 6 cores	265x153x60
TBA-24	24	4 piece of FOST with 6 cores	265x153x60

# FIBER MANAGEMENT

## SPLICE CLOSURE

### ENCLOSURES-SOFSC-B

Innovative design SOFSC-A is an arc and horizontal type with one hinge in one side and open in another side. Two pieces of insert plates and fixing bolts are used to fix and seal SOFSC.

SOFSC-A consists of one set of elastic seal fitting, our company patent product, which, based on an advanced formula, is made of injection-molded, high quality elastic sealing material by numerical control equipment. It is installed between SOFSC housing and insert plates.



SOFSC-B

#### Dimension and capacity

Outside dimension (LxWxH)	410x200x120(mm)
Weight (excluding outside box)	1900g-2100g
Number of inlet/outlet ports	6 ports (3 each side)
Diameter of fiber cable	Φ8—Φ16(mm)
Capacity of FOSC	Bunchy: 6—96(Cores) Ribbon: max. 144 (Cores)

#### THE ORDERING GUIDANCE

Type	Unit	Optical Fiber Splice Tray(OFST) (including heat shrinkable protective sleeve)	Total capacity (cores)
SOFSC-B24	Set	OFST with 1-24 cores	24 cores
SOFSC-B48	Set	OFST with 24-48 cores	48 cores
SOFSC-B72	Set	OFST with 48-72 cores	72 cores
SOFSC-B96	Set	OFST with 72-96 cores	96 cores

# FIBER MANAGEMENT

## SPLICE CLOSURE

### ENCLOSURES-SOFDM06

SOFDM06 is a round dome type. Hoop is used to fix and seal SOFDM cover and base, and its installation is quite simple. SOFDM06 is provided with 4 fiber cable inlet/outlet ports, and sealing is achieved by tightening nut after inserting fiber cable. The SOFDM is suitable for protecting fiber cable splices in straight-through and branching applications. It can be placed in aerial, underground, wall-mounting, hand hole mounting and duct-mounting applications. Based on an advanced formula, the plastic parts are made of injection molded, high-strength engineering plastic PC by numerical control equipment, therefore effectively prevent products from aging caused by coldness, heat, oxygen and ultraviolet radiation. The strong housing and main components provide fire resistant, waterproof and quakeproof while protecting splices during pulling, torsioning and impacting. It ensures long term reliability and usage under ambient temperature from -40°C to +65°C.



SOFDM06

#### Features

- Dome, vertical type, small size
- 4 pcs inlet/outlet
- 48~96 cores total capacity
- Slide-in-lock design, over 90° opening angle tray
- Elastic integrated seal and hoop ensure tightening fit
- Housing provide fire resistant, waterproof, and quakeproof for splices while handling
- Operating Temperature: -40°C~+65 °C

#### General

- Dimension: 190(diameter)\*410(H) mm
- Inlet & outlet: 4pcs

#### Applications

- Installation: aerial, underground, wall, hand-hole and duct-mounting

### THE ORDERING GUIDANCE

Type	Size (mm) H × D	Core capacity	Cable Port (max)	Max diameter of cable (mm)
SOFDM06-I-12	410×Φ190	12	4	1 x Φ25 3 x Φ16
SOFDM06-I-24		24		
SOFDM06-I-36		36		
SOFDM06-I-48		48		
SOFDM06-I-60		60		
SOFDM06-II-24		24		
SOFDM06-II-48		48		
SOFDM06-II-72		72		
SOFDM06-II-96		96		



# FIBER MANAGEMENT

## CABINETS

### WALL MOUNTED CABINETS

Strong and robust 19" wall mounted cabinet, with a lockable steel framed glass door for safety and security, quick release hinges allow for easy access to the cabinet for loading equipment and cables, with gland plate covers on the top and bottom of the cabinet to allow for cable entry. The sides of the cabinet are ventilated to improve air flow.

#### Features

- 600mm wide.
- 6u, 9u, 12u and 15u 450mm deep.
- Sliding 19" mounting profiles front and rear.
- Standard ventilation top and bottom.
- Vented framed door with safety glass.
- Rear panel installation.
- Heavy duty construction – 60kg (UDL).
- Pre-assembled.
- Lockable side panels.
- Door opens 180degrees, hinged left or right.
- Built in cable strain relief positions.
- Grey – RAL7035.

#### Specifications

- 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



Lockable side panels



Sliding mounting angles



Secure lock



Quick release door



Side latch



### ORDERING INFORMATION

Height	Depth	Width	Weight	Part No.
6U	450	600	20.5kg	SOFWC0106G
9U	450	600	24kg	SOFWC0109G
9U	600	600	28.5kg	SOFWC0209G
12U	450	600	27.5kg	SOFWC0112G
12U	600	600	32.5kg	SOFWC0212G

Height	Depth	Width	Weight	Part No.
15U	450	600	31kg	SOFWC0115G
15U	600	600	36kg	SOFWC0215G
18U	450	600	36.5kg	SOFWC0118G
18U	600	600	42kg	SOFWC0218G

# FIBER MANAGEMENT

## CABINETS

### FLOOR STANDING CABINETS

The new 19" floor standing cabinet range are high quality, competitive cabinets that offer real value for money in today's market. our cabinets consist of an aluminium frame chassis, glass and 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. earthing kit and foam cable entry glands are included in the base. A robust design and attractive styling combines strength and appearance, ideal for office environments, data networking, broadcast, security and audio visual applications.

#### Features

- Lightweight but strong aluminium frame and corner castings.
- 800kg Static load capacity (UDL).
- Width: 600mm or 800mm.
- Depth: 600mm, 800mm and 1000mm.
- Available in 27u, 37u, 42u and 47u.
- Doors are made from vented steel or toughened glass, and open to 180degrees.
- Adjustable feet and heavy duty castors making levelling quick and efficient.
- Lockable side panels .
- Ventilation open area over 55% of available area.
- Multi-function top panels.

#### Data Cabinets Include

- 1x Frame.
- 1x Glass front door.
- 1x Steel rear door.
- 2x Steel lockable side panels.
- 4x Travel castors.
- 4x Adjustable feet.
- Top covers on all sizes are blanks as standard, see other options.
- All 800mm wide cabinets include 2 cable management channels.



Castors & adjustable feet



Secure twist lock front and rear



Side latch



Quick release door



### ORDERING INFORMATION

Height	Width	Depth	Size	Part No.
1410	600	600	27U	SOFAC6627B
1410	600	800	27U	SOFAC6827B
1410	600	1000	27U	SOFAC6027B
1410	800	1000	27U	SOFAC8027B
1850	600	600	37U	SOFBC6637B
1850	800	600	37U	SOFBC8637B
1850	800	800	37U	SOFBC8837B
2080	600	600	42U	SOFCC6642B
2080	600	800	42U	SOFCC6842B
2080	600	1000	42U	SOFCC6042B

Height	Width	Depth	Size	Part No.
2080	800	600	42U	SOFCC8642B
2080	800	800	42U	SOFCC8842B
2080	800	1000	42U	SOFCC8042B
2300	600	600	47U	SOFDC6647B
2300	600	800	47U	SOFDC6847B
2300	600	1000	47U	SOFDC6047B
2300	800	600	47U	SOFDC8647B
2300	800	800	47U	SOFDC8847B
2300	800	1000	47U	SOFDC8047B

# FIBER MANAGEMENT

## ACCESSORIES

### ACCESSORIES

To compliment our range of fiber management products, SofeTEK also offer a full range of accssories to help you to construct, manage and splice your fiber network.



**Splice Tray Lid and holder** (avaiable in white or black)  
Part No.:  
TRAY01BK  
TRAY01WT



**Splice Cassette With Clear Lid** (avaiable in white or black)  
Part No.:  
TRAY02BK  
TRAY02WT



**Panel Blanks**  
Part No.:  
SOFSTBLANK  
SOFSCDBLANK  
SOFSCSBLANK



**Cable Management Kit**  
Part No.:  
SOFKIT01



**Splice Protectors**  
Part No.:  
SOFSPlice45CLEAR  
SOFSPlice60CLEAR



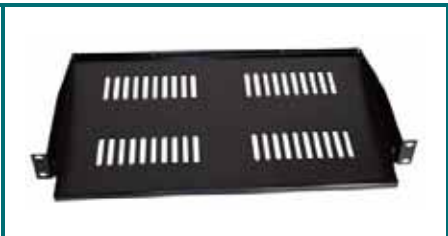
**1U Brush Strip**  
Part No.:  
SOF1UBRUSHSTRIP (1U Brush Strip)



**1U Fan Unit**  
Part No.:  
SOFFAN01 (2 fans EU style)  
SOFFAN02 (4 fans EU style)  
SOFFAN03 (2 fans UK style)  
SOFFAN04 (4 fans UK style)



**1U Cable Bar with Brush Strip**  
Part No.:  
SOF1UCABLEBAR/BR



**Cantilever-1U or 2U**  
Part No.:  
SOFSHelf14 (1U 300mm Deep Cantilever Shelf)  
SOFSHelf13 (2U 300mm Deep Cantilever Shelf)



**Sliding Shelf**  
Part No.:  
SOFSHelf10 (600 Deep Sliding Shelf)  
SOFSHelf11 (800 Deep Sliding Shelf)  
SOFSHelf12 (1000 Deep Sliding Shelf)

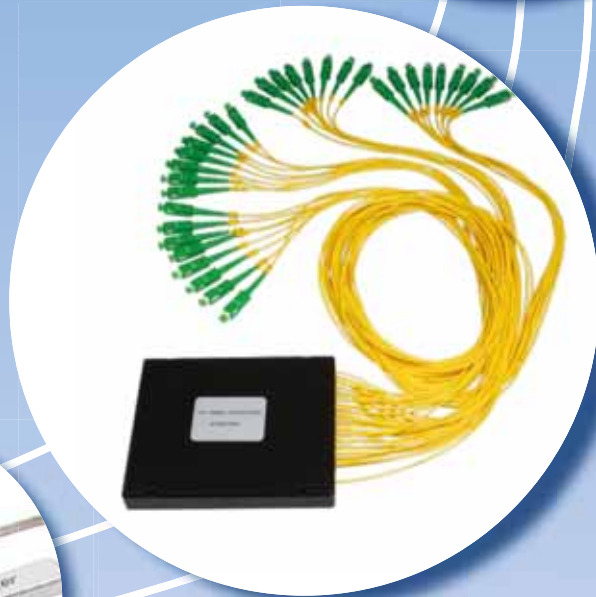


**Blanking Plates**  
Part No.:  
SOF1UBLANK (1U Blanking Plate)  
SOF2UBLANK (2U Blanking Plate)



**Cable Management Bars**  
Part No.:  
SOF1UCABLEBAR (1U Cable Managment Bar)  
SOF2UCABLEBAR (2U Cable Managment Bar)

- Media Converters
- Couplers/Splitters/WDM



## MEDIA CONVERTERS

### 10-100M MEDIA CONVERTOR

10/100 base media converter can work in conditions with ultra broad band voltage and with the temperature of 50°C. MDI, MDI-X functions are available on TP port so that the users can get connected directly with PC, switch, router or hub, no matter the users use straight-through TP cable or cross TP cable. When these series Media-Converter is working in Auto-negotiation mode, it's able to realize the best matching by adapting itself to the speeds and simplex-duplex modes of the equipments connected. LFP is a special function to indicate malfunctions happen to remote cable or cat 5. Led indicators on switch or hub can show them. In order to make installation convenient, the main body of the Media Converter is designed to be able to be easily hung on wall.

#### Features

- Comply with IEEE802.3, IEEE802.3u, IEEE802.3x.
- Available in full-duplex and half-duplex functions.
- With auto-negotiation, MDI/MDI-X ability.
- Store and forward mode, broadcast storm protection
- With 850nm, 1300nm, 1310nm, 1550nm, Tx1310nm/Rx1550nm, Tx1550nm/Rx1310nm options.
- With LED status indicators, easy to install and maintain.
- Static-proof and thunder stroke proof.



#### Applications

- Broad Band Fiber network for network manage company.
- Broad Band network for government organization, oil industry, system, railway transport, electric power system, public security, education etc.
- Media transmission like picture, sound and data transfers.
- Stakeout and control on the spot.
- Making network in abominable environment.
- FTTX (FTTC, FTTF, FTTB, FTTH).
- Telecommunications.

### 1G MEDIA CONVERTOR

IEEE802.3z/AB 1000Mbps Gigabit Ethernet supports two types media for network connection such as 10/100/1000Base-T and 1000Base-SX/LX. The media converter is designed with a switch controller and buffer memory that connects two types segments to operate smoothly. With internal power unit, it provides good stability and reliability.

#### Features

- Compliant with IEEE802.3, IEEE802.3u, IEEE802.3ab standards for TP connection and IEEE802.3z standards for Fiber connection.
- 10/100/1000Base-T to 1000Base-SX/LX Fiber Conversion  
Provide Fiber-optic port with SC connector.
- Automatically detects and configures the twisted pair port on the converter to the correct MDI or MDI-X configuration.
- Status LEDs for FX link, activity, PWR, TP link, activity, FDX.
- Wide range of external power supply.

#### Applications

- Broadband Fiber Optic Network.
- FTTX (FTTC, FTTF, FTTB).
- Telecom Application.





## COUPLERS/SPLITTERS/WDM

### FUSED SPLITTERS

SofeTEK Truly fused dual window couplers are specially designed and optimised for Fiber to the Home (FTTH) applications. Manufactured using a state of the art Fused Biconical Taper process (FBT), these couplers exhibit uniform performance over the entire optical band from 1260-1630nm with near zero excess loss. The epoxy free optical path of SofeTEK Truly fused couplers provides good power handling capability.

SofeTEK fused couplers use highly reliable and specialised packaging technology, providing excellent thermal stability and long life. The advanced packing ensures very good stability under vibration and impact, making these couplers ideal for outdoor applications.

Parameters	Single window		Dual window		FTTH Bands	
	Narrowband Single Window	Wideband Single Window	Narrowband Dual Window	Wideband Dual Window	FTTH Compliant	Ultra Broad Band
Operating Wavelength	1310±20nm or 1550±20nm	1310±40nm or 1550±40nm	1310±20nm & 1550±20nm	1310&1550 (±40nm)	1310±40nm 1490±10nm &1550±40nm	1260-1630nm
Grade	Premium Standard					
Excess Loss:Typical	0.2dB	0.2dB	0.2dB	0.2dB	0.2dB	0.2dB
IL Max	7.2dB	7.4dB	7.3dB	7.5dB	7.3dB	7.5dB
Uniformity: Max	1.3dB	1.4dB	1.5dB	1.6dB	1.6dB	1.8dB
PDL max over the Operating band	0.25dB	0.25dB	0.25dB	0.25dB	0.3dB	0.3dB
Back Reflection	≤-50dB					
Operating Temperature	-40 to +85℃					
Fiber Type	Corning SMF - 28e					
Dimensions.LD	2.9mm(dia)X51mm(L), bare Fiber					
Dimensions.MD	3.9mm(dia)X76mm(L), 900µm Hytel					



### FUSED WDM

SofeTEK high performance WDMs, are used for multiplexing two different signals into a single fiber or to separate into two signals having separate wavelengths, from an incoming fiber. SofeTEK 1310/1550 WDM can be applied in single fiber bi-directional communication systems. The 980/1550nm WDMs are used in Erbium doped fiber amplifiers (EDFA), for multiplexing signal and pump power. They are available in different packaging types and connector varieties, to meet your requirement.

#### Features

- Low insertion loss
- low polarization dependent loss
- Good environmentally stability
- Broadband Transfer
- High Stability and Reliability

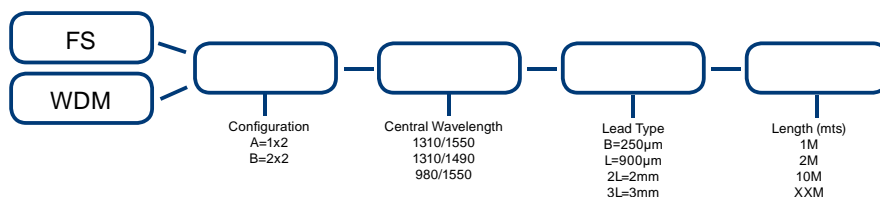
#### Applications

- Telecommunications
- Fiber Amplifier
- WDM System
- Bi-directional Network
- Optical Communication Equipment



## ORDERING INFORMATION

To order fused WDM / Splitters the SofeTEK part number follows the following sequence.



# TELECOM PRODUCTS

## COUPLERS/SPLITTERS/WDM

### PLC SPLITTER MODULES

Planar splitters are available in the form of either module cassette , rack-mount or wall-mount box with fiber diameter up to 3 mm. These rugged products give field engineers great ease of handling and installation and are suitable for both indoor and outdoor applications.

#### Features

- Low Excess Loss
- Good Directivity
- Low PDL
- Good Environmental Stability
- Various types are optional
- Standard/Flattened
- Broadband/Tree/Star

#### Applications

- Optical Fiber Communication Systems
- Optical Fiber Access Networks
- Optical Fiber CATV
- Optical Fiber Test Equipment
- Monitoring Systems
- Optical Fiber Sensor
- Light Source Distribution



1X32 SCA Module

Parameters		1X4	1X8	1X16	1X32
Operating Wavelength(nm)		1260-1650			
Insertion Loss(dB)	Max	7.7	11.5	14.5	18.2
Loss Uniformity(dB)	Max	0.6	0.8	1.2	1.7
Return Loss(dB)	APC Min	50	50	50	50
	UPC Min	45	45	45	45
PDL(dB)	Max	0.3	0.3	0.3	0.3
Directivity(dB)	Min	55	55	55	55
Pigtail Length(m)	1.0± 0.1 or customer specified				
Fiber Type	SMF-28e with 3mm cable or customer specified				
Wavelength Dependent Loss(dB)		1.0	1.0	1.0	1.0
Temperature Stability(-40~85℃)(dB)		0.6	0.6	0.8	1.0
Operating Temperature(℃)	-20~65				
Storage Temperature(℃)	-40~85				
Housing Dimension(LxWxH)(mm)		100X80X9	100X80X9	120X80X9	140X114X18

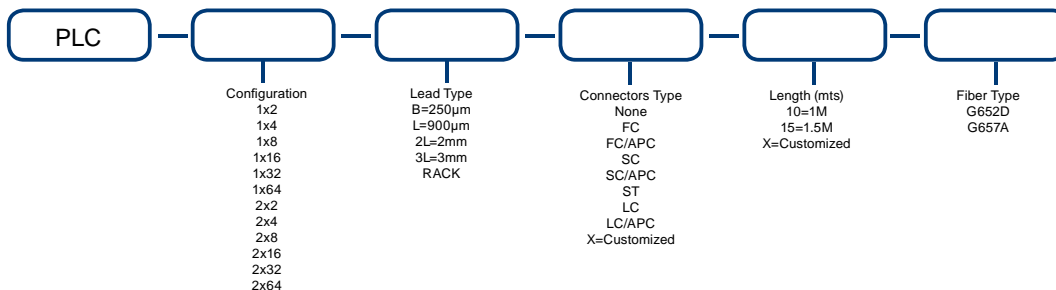
Note:All measurements were done at room temperature,and specifications include connectors



PLC Splitter (19" Rack Mount) Module

### ORDERING INFORMATION

To order PLC Splitters the SofeTEK part number follows the following sequence.



- Polishing Equipment
- Test Equipment
- Tools & Consumables



# EQUIPMENT & TOOLS

## POLISHING EQUIPMENT

### POLISHING EQUIPMENT

A turntable with our exclusive rotation-revolution mechanism, polishing films, and polishing process based on our many years of experience in connector polishing – all contribute to high quality and performance of our polishing machines.

### POLISHING MACHINE-SFP500

The polishing machine is most ideal for mass production and capable of 16-axis simultaneous polishing. You can easily clean ferrules and change polishing films without mounting / dismantling polishing holders, enabling high workability.

Also you can easily and precisely adjust pressure with a pressurization knob which enables you to flexibly customize the polishing applications according to materials and polishing shapes of ferrules.

#### I.P.C. FIXTURES



Part No.:SFP500



JIG-LP/PC-16



JIG-LC/APC-12



JIG-ST/PC-12



JIG-FC/PC-12



JIG-SC/PC-12



JIG-SC/APC-12

#### Features

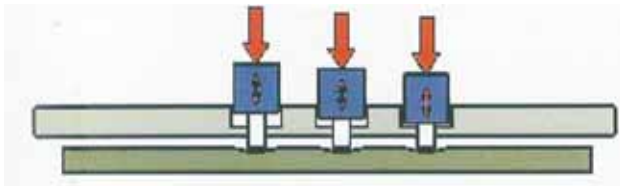
- High Speed Process
- Large Capacity
- FC, SC, ST, LC, MU
- UPC or APC
- Precision Pressure Control
- Ergonomically Designed
- Ease of Use
- Low Insertion Loss
- Low Back Reflection

# EQUIPMENT & TOOLS

## POLISHING EQUIPMENT

### POLISHING MACHINE-FTP15A

This polishing machine is our ultimate model and most ideal for mass production and capable of 20-axis simultaneous polishing. Our original design of individual pressure control holder rectifies variant ferrule length and provides high performance polishing. It is enable to establish a large-scale polishing line by installing several of polishing machines in each process.



Self Adjusting To Pressure!



Part No.:FTP15A

### I.P.C. HOLDERS

AVAILABLE FOR FC, SC, ST, MU, & LC



JIG-ST/UPC-20



JIG-SC/APC-16



JIG-SC/UPC-20



JIG-FC/APC-18



JIG-LC/UPC-24



JIG-FC/UPC-20

### Features

- High Speed Process
- Huge Capacity
- FC, SC, ST, LC, MU
- MTP, MPO, MT-RJ
- UPC or APC
- I.P.C. Polishing Fixtures
- Low Insertion Loss
- Low Back Reflection
- Repeatability
- Reliability
- Low Back Reflection



# EQUIPMENT & TOOLS

## TEST EQUIPMENT

### BENCH-TOP OPTICAL POWER METER

SF3201 Single Channel Benchtop Power Meter is a test instrument developed by SofeTEK with high precision and wide measurement range. It features intelligent micro-processing control and automatic switch of the measurement range.

SF3201 Single Channel Benchtop Power Meter divides the whole measurement range into 8 sections of the linear process. It eliminates the non-linearity differences caused by the PIN detector under the same wavelength and different power. It greatly improves the accuracy and stability.

#### Features

- Optical Output Power can be adjustable, adjustment range can be custom-made according to the needs.
- High stability and reliability.
- High accurate ATC and APC control electrocircuit.
- Many kinds of laser wavelengths, Customer order is available.
- OLED display is employed to make a comfortable seeing.
- USB communication port.

#### Applications

- Teaching and studying of the Fiber optic telecommunication.
- Producing and researching of the optical components.
- Maintenance of the telecom.
- Maintenance CATV.
- Other Fiber Optic Measurement.



### BENCH-TOP OPTICAL HIGH STABLE LIGHT SOURCE

SofeTEK has designed SF3102 Benchtop high stable light source specially used in manufacturing of optical passive components and testing of lab research. Relying on high accuracy automatic power control(APC) and automatic temperature control(ATC) techniques, SF3102 series light sources has a very stable output power and wavelength. SF3102 can deliver 1 to 2 wavelengths upon customer request and laser types can be optional to satisfy customers various requests. It's an ideal test equipment for a required conditions of wide variety attenuation and high stable output power and wavelength.

#### Features

- Optical Output Power can be adjustable, adjustment range can be custom-made according to the needs.
- High stability and reliability.
- High accurate ATC and APC control electrocircuit.
- Many kinds of laser wavelengths, Customer order is available.
- OLED display is employed to make a comfortable seeing.
- USB communication port.

#### Applications

- Manufacturing and Testing of Optical Passive Components
- WDM Testing
- Lab Testing
- Testing of Stability and Linearity
- Test instrument calibration
- Communication System Test



### INSERTION LOSS AND RETURN LOSS TEST STATION

SF3307A Insertion Loss/Return Loss Test Station is a high performance loss test station that is designed specially for Optical Passive Components production Test and Lab Test. It combines three different working modes as a return loss meter, optical power and loss meter and a stable laser source in one test station.

#### Features

- Outstanding measurement accuracy and repeatability
- Automatic wavelength setting with synchronization
- Multiple working modes
- Easy Operation
- Human Engineering Design
- Dustproof and active Optical Interfaces, easy removal for clean and replacement



# EQUIPMENT & TOOLS

## TOOLS & CONSUMABLES

### TOOLS & CONSUMABLES



#### 24 Position Oven for Epoxy Curing

Epoxy curing is a critical step in patchcord assembly. SofeTEK offers a reliable, steady and economic solution. The special design central block allows even heat distribution and minimizes the time for oven curving. It accommodates a variety of connectors including FC, SC, ST as well as SMA 12 positions. To allow temperature monitoring, a thermometer can be installed at the centre of the heating block. Thanks to its compact size, the oven can be used in outside plant environment.



#### Polishing Film & Slurry

Ferrule polishing is the last but the most significant step in both singlemode and multimode patchcord assembly. To ensure outstanding performance, you need an abrasive film that will deliver superior results consistently through its life cycle. SofeTEK can offer you the solution. Together with the selected films from the broadest range of 3M and NTT-ME Lapping Films, a reliable and cost efficient solution is readily available.



#### Polishing Puck

Polishing pucks are used to hold connector ferrules firmly in place during the polishing process, ensuring that the ferrule ends are accurately polished for a flush finish.

- Available in two sizes: LC 1.25mm and universal (SC/ST/FC) 2.5mm.
- Manufactured to the highest quality.
- Produced using milled stainless steel.
- Long lasting product.



## Other Catalogues Available

