

OPF

Professional Solution

Catalogue

Fiber Optic Passives



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Adhering to the business guidelines of innovation, down-to-earth, honesty, and passionate services, Our company will continue to provide customers with quality products and satisfactory after-sale service. We wish to create a better future in the optical communication industry jointly with both new and existing customers.

Keeping state-of-the-art on every single product with sustained reliable quality and international standards, We also put our best efforts on a lower production cost and prices in market for the customers



■ **Company information**

Founded in 2000, OPF Ltd is a professional hi-tech optoelectronics company engaged in R&D, manufacture, and distribution. Currently, the main products of our company include optic linkers, fibre distribution series, optic connectors, optic adapters, optic couplers, optic attenuators, and WDM series.

We invested in a factory and research centre with the most advanced machines and equipments. we have 150 well-trained staff and engineers who contribute to our proud products. OPF Ltd. has focused on research, development, and applications of the total production techniques which are involved in sleeves designing, material moulding, programmed agglomeration, machinery processing, shaping, polishing, and making-up, on-line quality control as well as a set of inspection and testing systems.

The most advanced polishing equipments and function testing instruments enable our connectors to join in all sorts of optical networks; optical cables; optical terminal devices, and testing equipments. The advanced management, strict quality control, and thorough product test make the technology specification and functions of our productions come up to advanced world.



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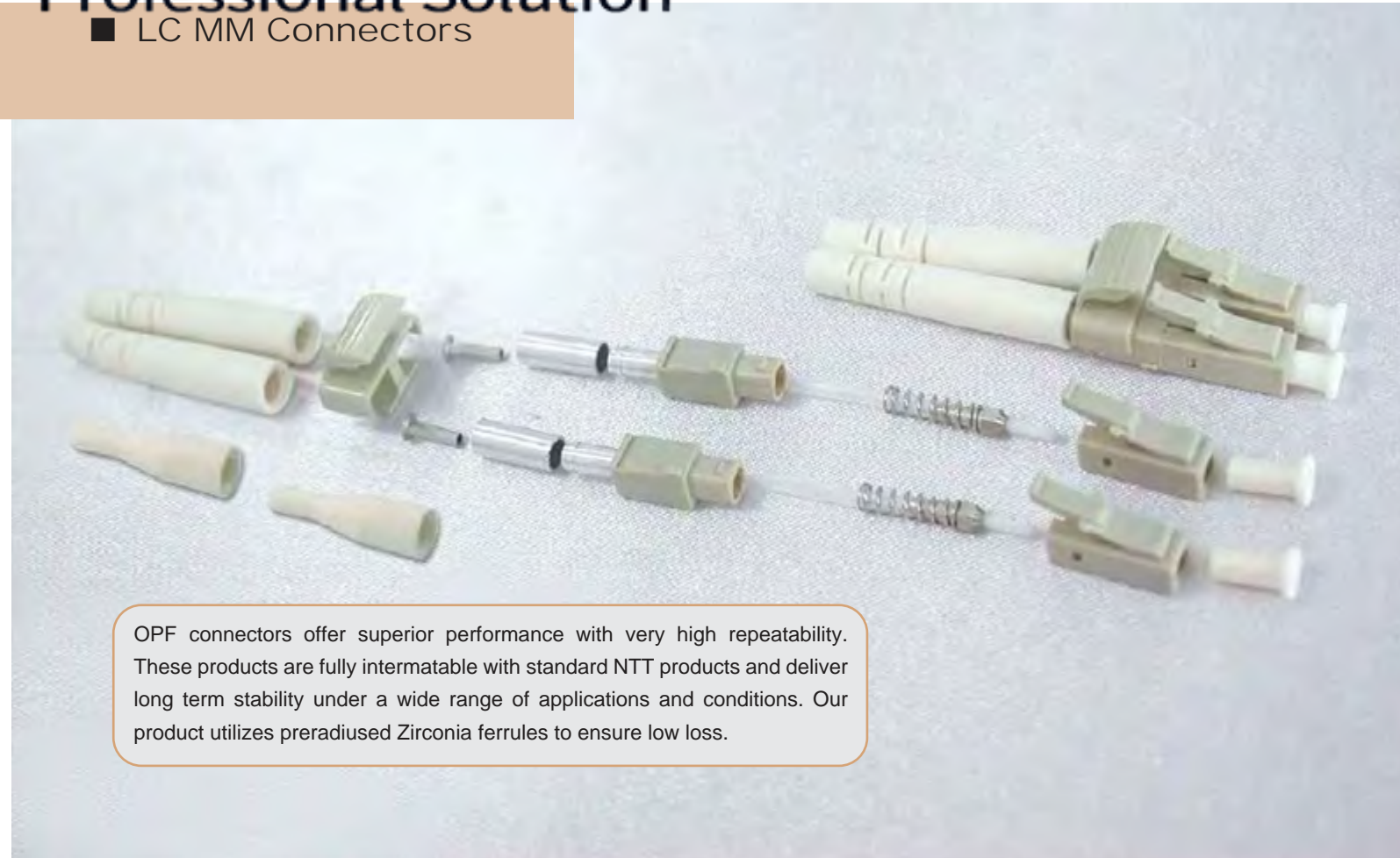
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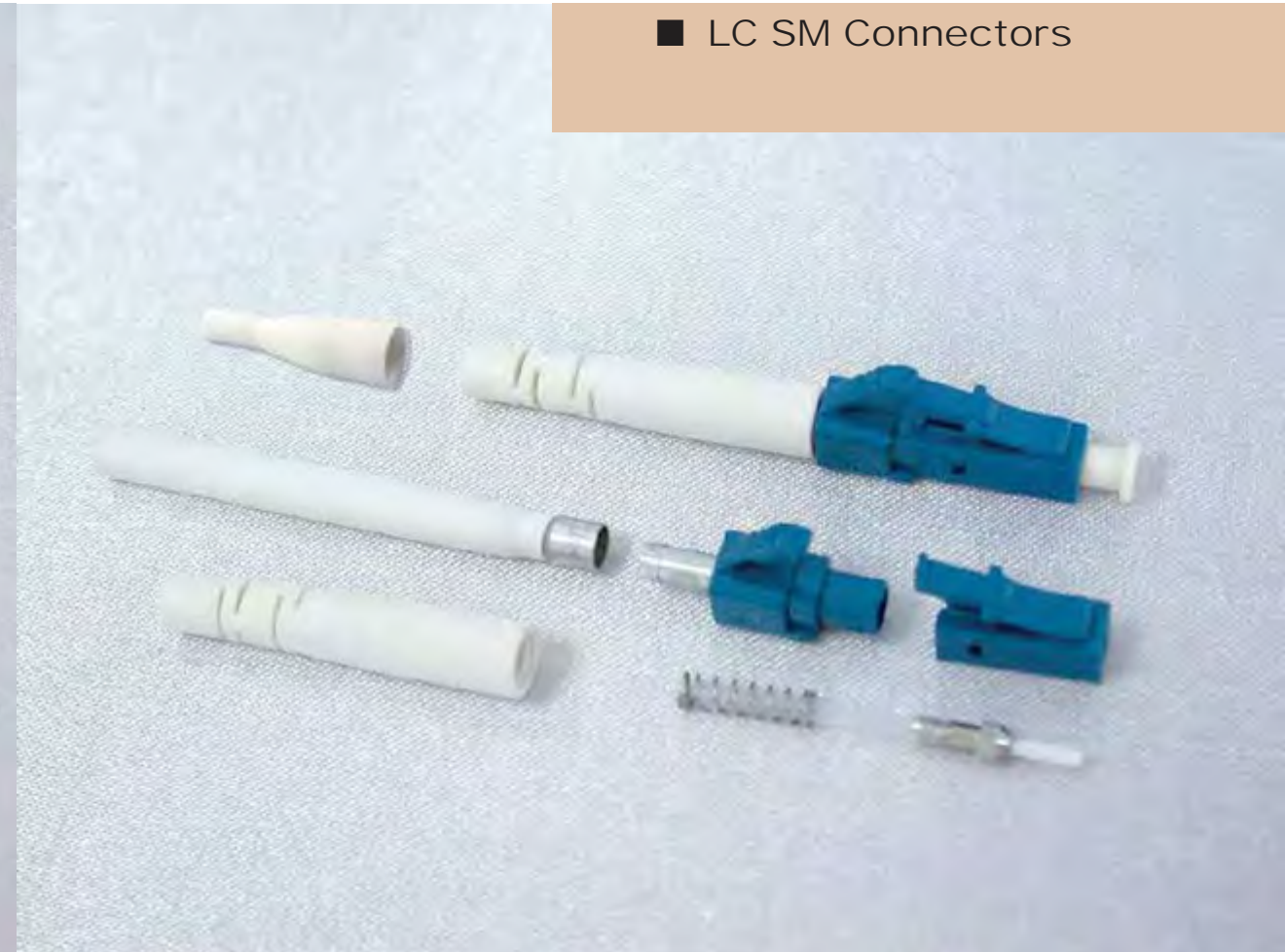
Professional Solution

LC MM Connectors



OPF connectors offer superior performance with very high repeatability. These products are fully intermatable with standard NTT products and deliver long term stability under a wide range of applications and conditions. Our product utilizes preradiused Zirconia ferrules to ensure low loss.

LC SM Connectors



Features

Patented Universal LC Duplex Clip Option
Telcordia GR-326 Compliant
Both Metal and Polymer Body
Adapters for All Standard and Hybrid Requirements

Applications

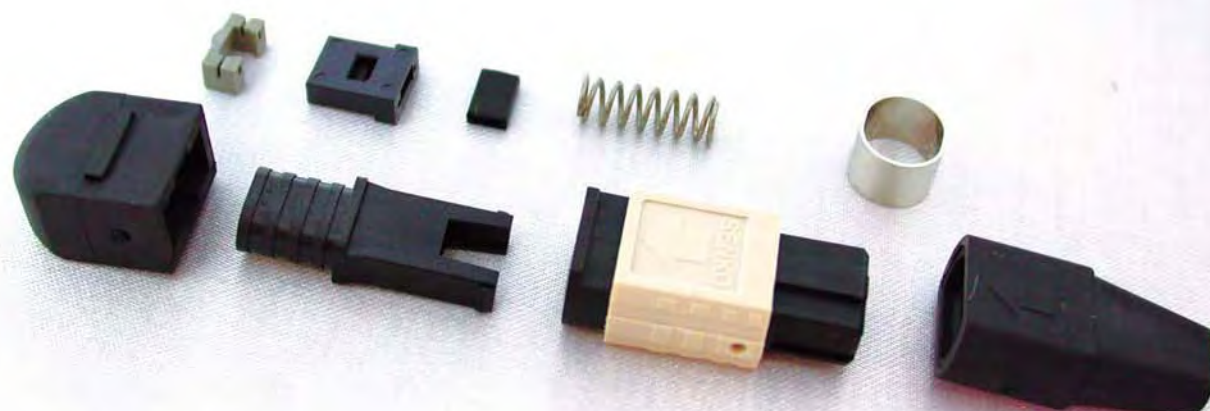
Local Area Networks
Fast Ethernet
ATM Networks
Optical Transport
Optical Access Networks



Parameters	Multimode	Singlemode
Insertion Loss	0.2 dB Typical 0.3 dB Maximum	0.15 dB Typical 0.25 dB Maximum
Back Reflection	- 25 dB Typical	- 35 dB PC Polish - 45 dB Super PC - 55 dB Ultra P C
Connection Durability	500 Matings	500 Matings
Connector Repeatability	$\Delta IL < 0.2 \text{ dB}$	$\Delta IL < 0.1 \text{ dB}$
Operating Environment	- 40 °C to + 85 °C	- 40 °C to + 85 °C
Temperature Cycling	$\Delta IL < 0.2 \text{ dB} / \Delta RL < 5 \text{ dB}$	$\Delta IL < 0.2 \text{ dB} / \Delta RL < 5 \text{ dB}$
Vibration	$\Delta IL < 0.1 \text{ dB} / \Delta RL < 5 \text{ dB}$	$\Delta IL < 0.1 \text{ dB} / \Delta RL < 5 \text{ dB}$
Cable Retention	> 15 Lbs.	> 15 Lbs.



MPO MM Connectors



OPF connectors offer superior performance with very high repeatability. These products are fully intermatable with standard NTT products and deliver long term stability under a wide range of applications and conditions. Our product utilizes preradiused Zirconia ferrules to ensure low loss.



Parameters	Phosphor/Bronze	Zirconia
Operating Temperature	- 40°C to + 85°C	- 40°C to + 85°C
Connection Durability	500 Matings	500 Matings
Repeatability	$\Delta IL < 0.1$ dB	$\Delta IL < 0.1$ dB
Insertion Loss	< 0.3 dB	< 0.2 dB

MU Connectors



Features

Telcordia GR-326 Compliant
Both Metal and Polymer Body
Adapters for All Standard and Hybrid Requirements

Applications

Local Area Networks
Fast Ethernet
ATM Networks
Optical Transport
Optical Access Networks

SC SM/Duplex Connectors



DESCRIPTION

OPF connectors offer superior performance with very high repeatability. These products are fully intermatable with standard NTT products and deliver long term stability under a wide range of applications and conditions. Our product utilizes preradiused Zirconia ferrules to ensure low loss.

Features

- Patented Universal SC Duplex Clip Option
- Telcordia GR-326 Compliant
- Both Metal and Polymer Body
- Adapters for All Standard and Hybrid Requirements

Applications

- Local Area Networks
- Fast Ethernet
- ATM Networks
- Optical Transport
- Optical Access Networks

SC SM/Simplex Connectors

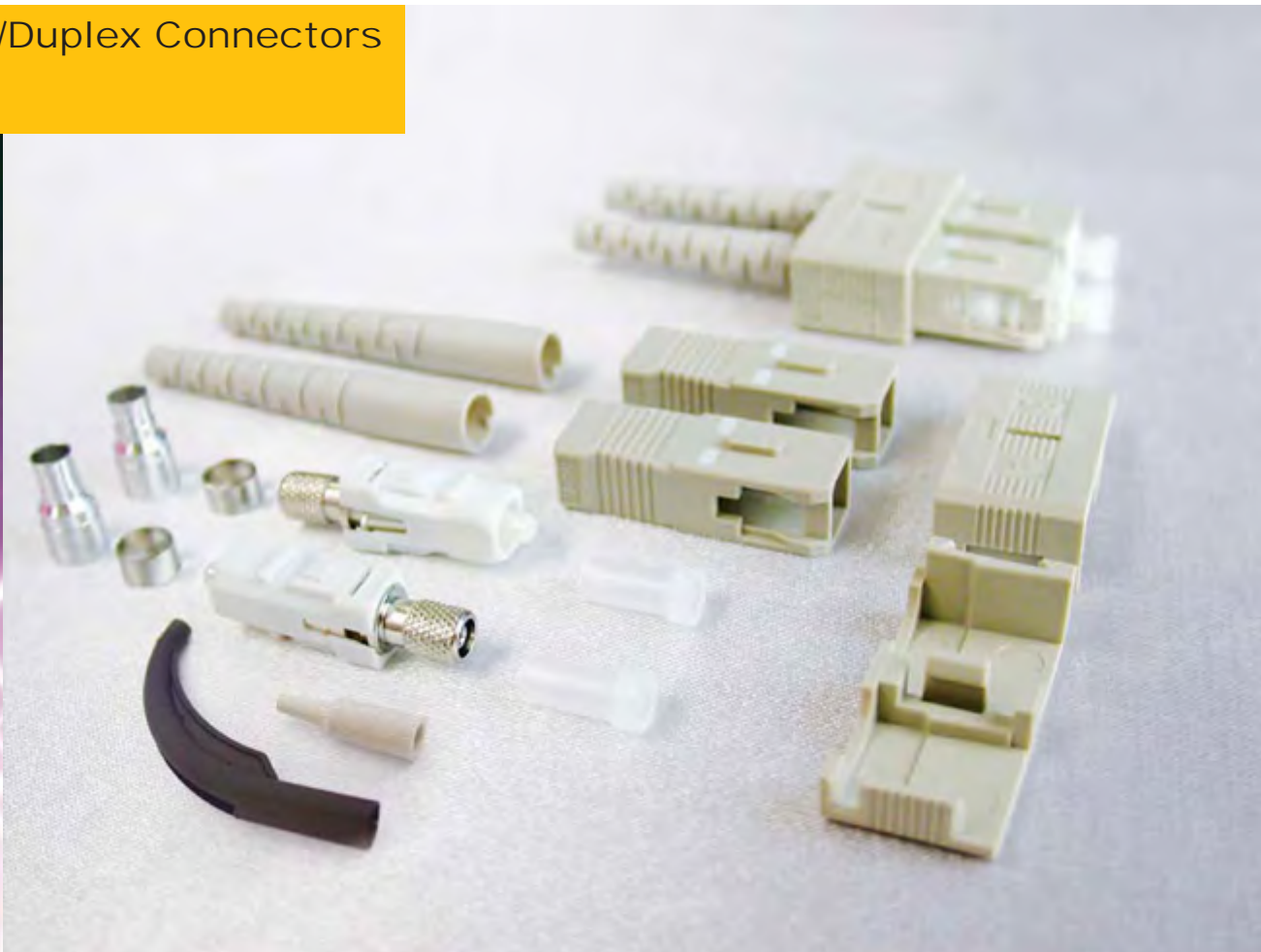


DESCRIPTION

OPF connectors offer superior performance with very high repeatability. These products are fully intermatable with standard NTT products and deliver long term stability under a wide range of applications and conditions. Our product utilizes preradiused Zirconia ferrules to ensure low loss.

Parameters	Phosphor/Bronze	Zirconia
Operating Temperature	- 40°C to + 85°C	- 40°C to + 85°C
Connection Durability	500 Matings	500 Matings
Repeatability	$\Delta IL < 0.1$ dB	$\Delta IL < 0.1$ dB
Insertion Loss	< 0.3 dB	< 0.2 dB

SC MM/Duplex Connectors



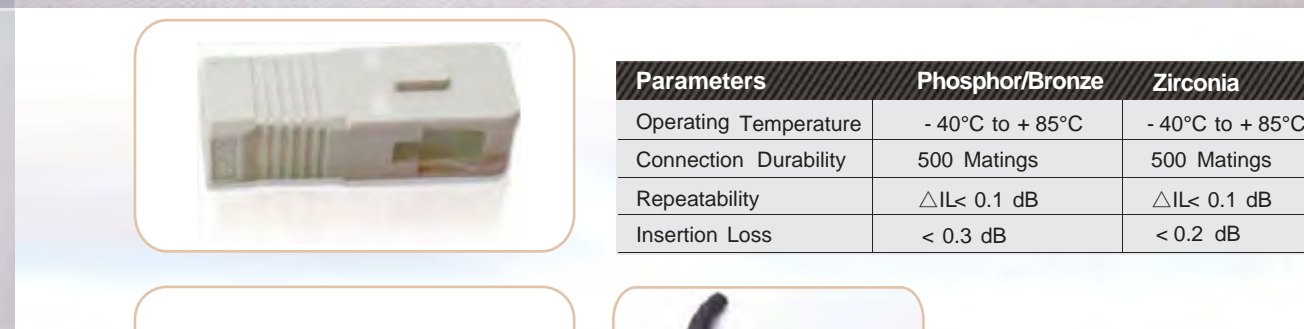
Features

- Patented Universal SC Duplex Clip Option
- Telcordia GR-326 Compliant
- Both Metal and Polymer Body
- Adapters for All Standard and Hybrid Requirements

Applications

- Local Area Networks
- Fast Ethernet
- ATM Networks
- Optical Transport
- Optical Access Networks

SC MM/Simplex Connectors



Parameters	Phosphor/Bronze	Zirconia
Operating Temperature	- 40°C to + 85°C	- 40°C to + 85°C
Connection Durability	500 Matings	500 Matings
Repeatability	$\Delta IL < 0.1$ dB	$\Delta IL < 0.1$ dB
Insertion Loss	< 0.3 dB	< 0.2 dB



FC Connectors



OPF connectors offer superior performance with very high repeatability. These products are fully intermatable with standard NTT products and deliver long term stability under a wide range of applications and conditions. Our product utilizes preradiused Zirconia ferrules to ensure low loss.



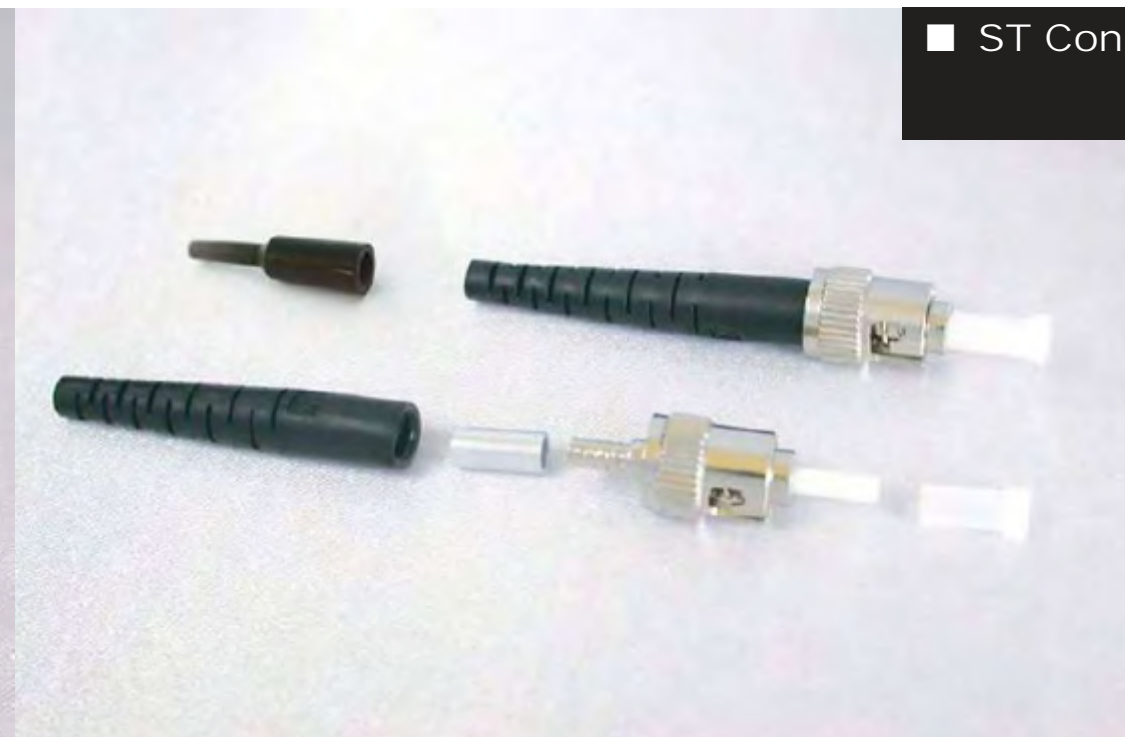
Features

Telcordia GR-326 Compliant
Both Metal and Polymer Body
Adapters for All Standard and Hybrid Requirements

Applications

Local Area Networks
Fast Ethernet
ATM Networks
Optical Transport
Optical Access Networks

ST Connectors



Parameters	Phosphor/Bronze	Zirconia
Operating Temperature	- 40°C to + 85°C	- 40°C to + 85°C
Connection Durability	500 Matings	500 Matings
Repeatability	$\Delta IL \leq 0.1$ dB	$\Delta IL \leq 0.1$ dB
Insertion Loss	< 0.3 dB	< 0.2 dB



OPF

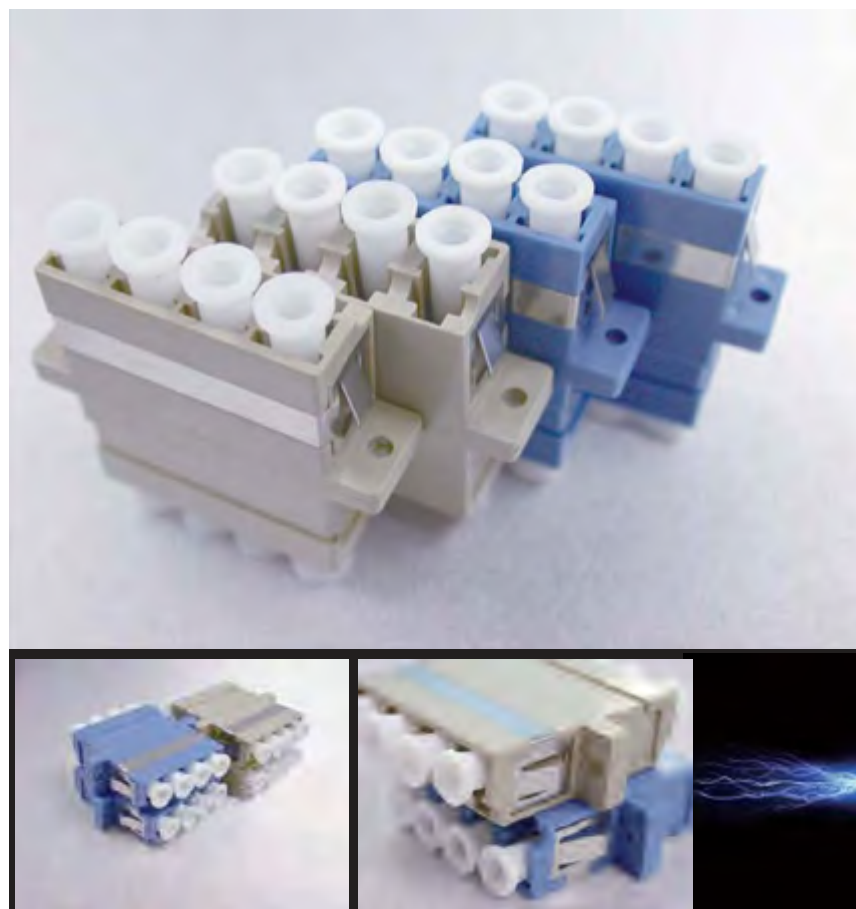
Professional Solution Adapter Series

■ Quad LC Adapters

The OPF Quad LC adapters offer great performance with very high repeatability and low insertion loss. Quad adapters are available in snap and flange mount options and support singlemode and multimode applications, including OM3 fibre specifications, making them suitable for 10G applications. OPF also manufacture an LC adapter family to support LC interconnection.

APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets



FEATURES:

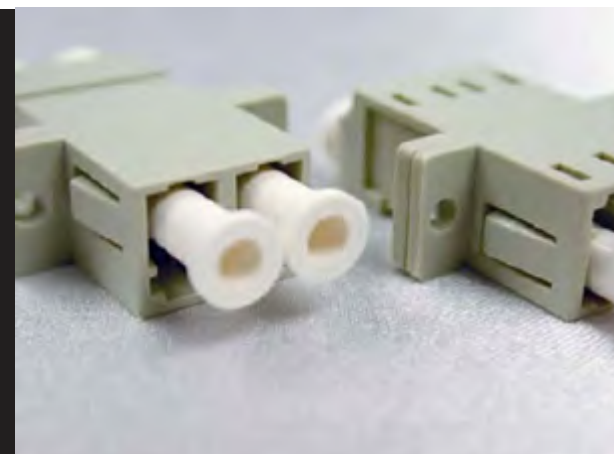
- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard

TECHNICAL SPECIFICATIONS :

Polish Type Unit	PC	APC
Insertion Loss dB	<0.20	<0.20
Return Loss dB	≥50	≥65
Mating Durability (500Cycles) dB	<0.20	<0.20
Temperature Stability dB	≤0.30	≤0.30
Operating Temperature	-20℃	70℃
Storage Temperature	-40℃	80℃

■ Duplex LC MM Adapters

OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.



FEATURES:

All ceramic ferrules for maximum optical and mechanical performance
 All patch cords are 100% optically inspected and tested • Individually labeled with unique ID for traceability
 A variety of fiber and cable types available • A variety of boot styles and colors available
 Customised print legends and jacket colors available • EIA/TIA Compliant

TECHNICAL SPECIFICATIONS :

Polish Type Unit	PC	APC
Insertion Loss dB	<0.20	<0.20
Return Loss dB	≥50	≥65
Mating Durability (500Cycles) dB	<0.20	<0.20
Temperature Stability dB	≤0.30	≤0.30
Operating Temperature	-20℃	70℃
Storage Temperature	-40℃	80℃

- LC Singlemode Simplex Adapters
- LC Singlemode Duplex Adapters

OPF provides a fibercoupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.



APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

FEATURES:

- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard

ST/ST Adapters Duplex SM/MM



SC-ST SM Duplex Adapters SC-ST MM Duplex Adapters

OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

FEATURES:

- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard

OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.



FEATURES:

- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard

APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

TECHNICAL SPECIFICATIONS :

Polish Type Unit	PC	APC
Insertion Loss dB	<0.20	<0.20
Return Loss dB	≥50	≥65
Mating Durability (500Cycles) dB	<0.20	<0.20
Temperature Stability dB	≤0.30	≤0.30
Operating Temperature	-20℃	70℃
Storage Temperature	-40℃	80℃



- ST Multimode Adapters
- ST Singlemode Adapters



OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.



APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

FEATURES:

- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard



- FC Multimode Adapters
- FC Singlemode Adapters

FEATURES:

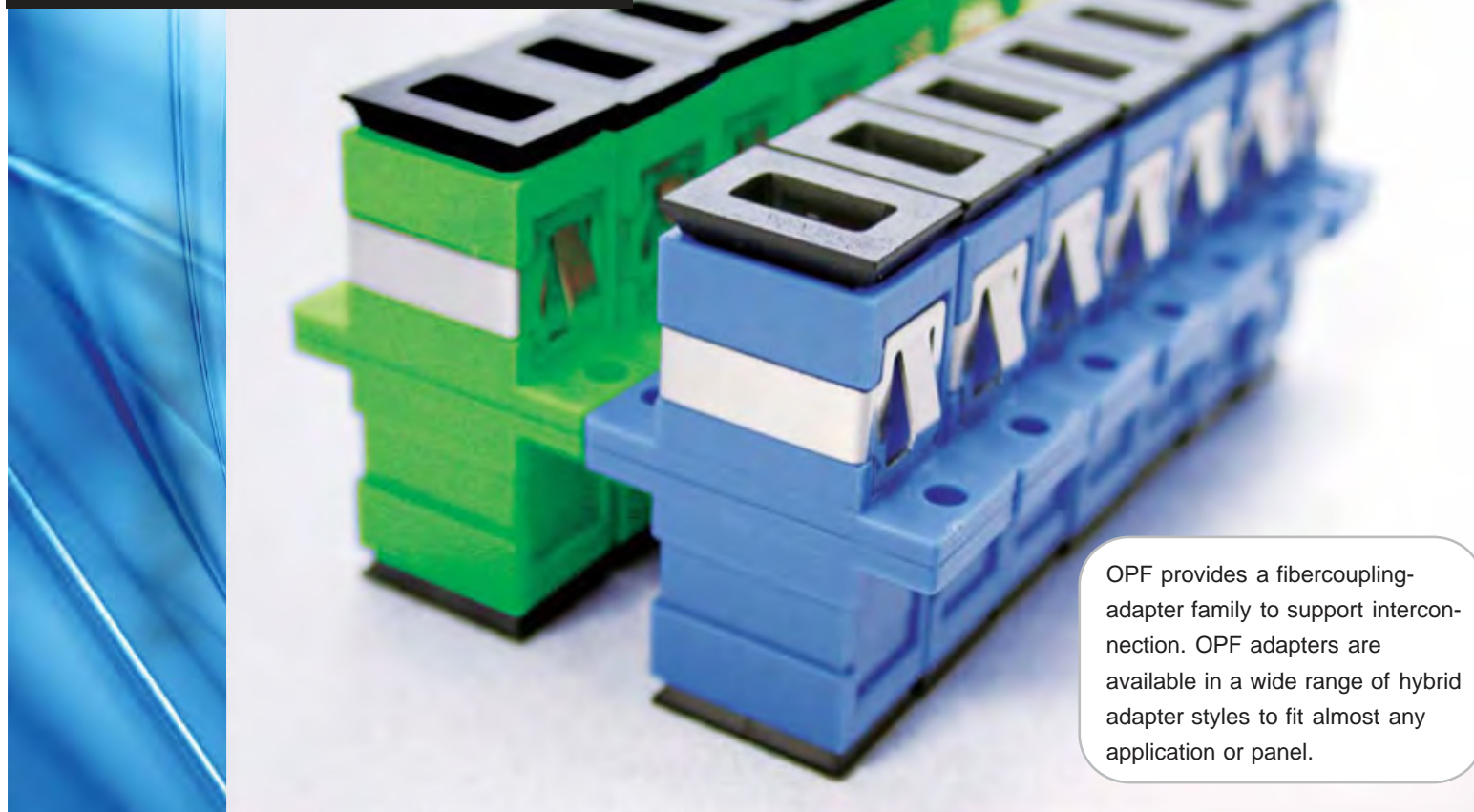
- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard



OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

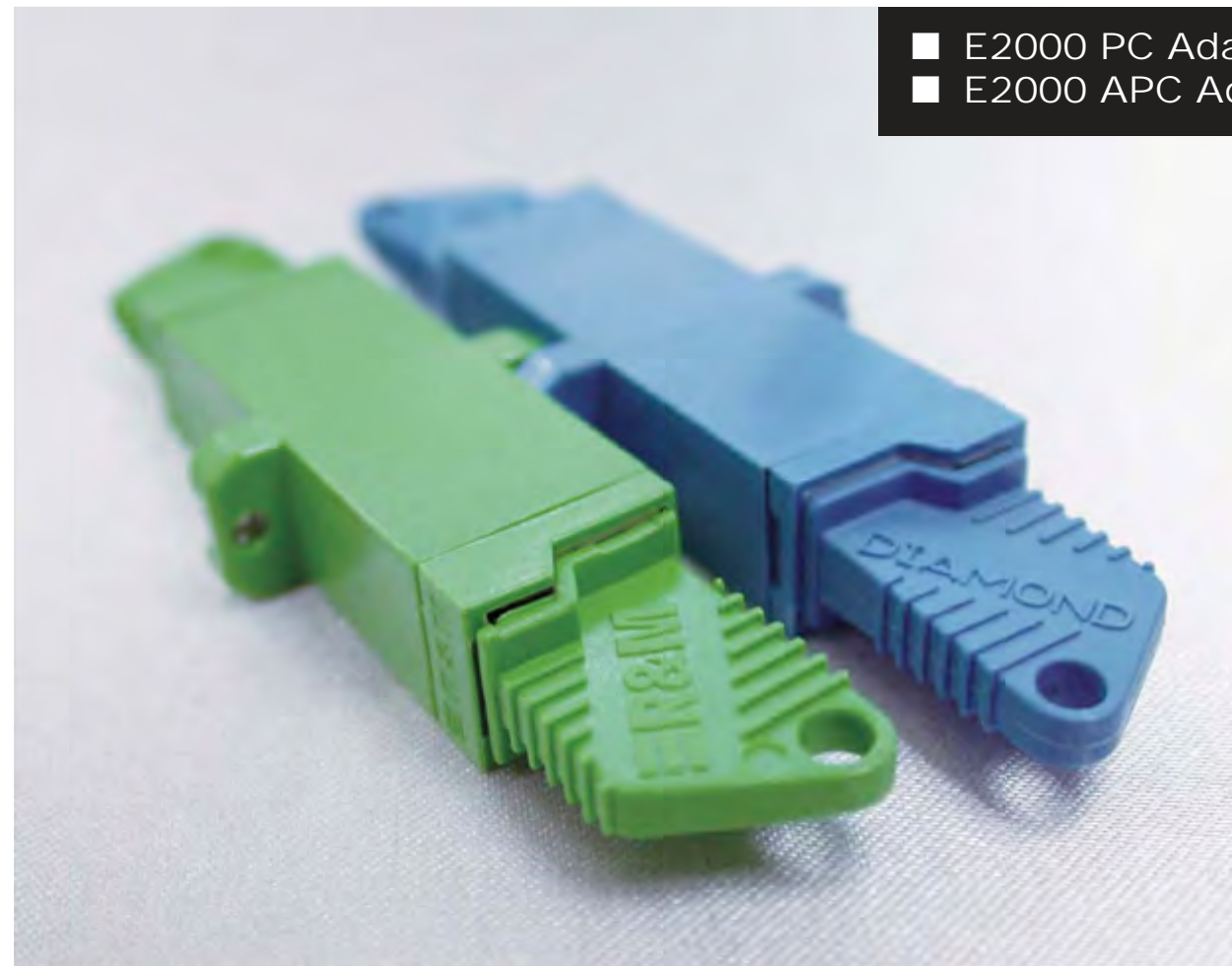


- SC Multimode Adapters
- SC Singlemode Adapters



OPF provides a fibercoupling-adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

- E2000 PC Adapters
- E2000 APC Adapters



OPF provides a fiber coupling-adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

E 2000

APPLICATIONS:

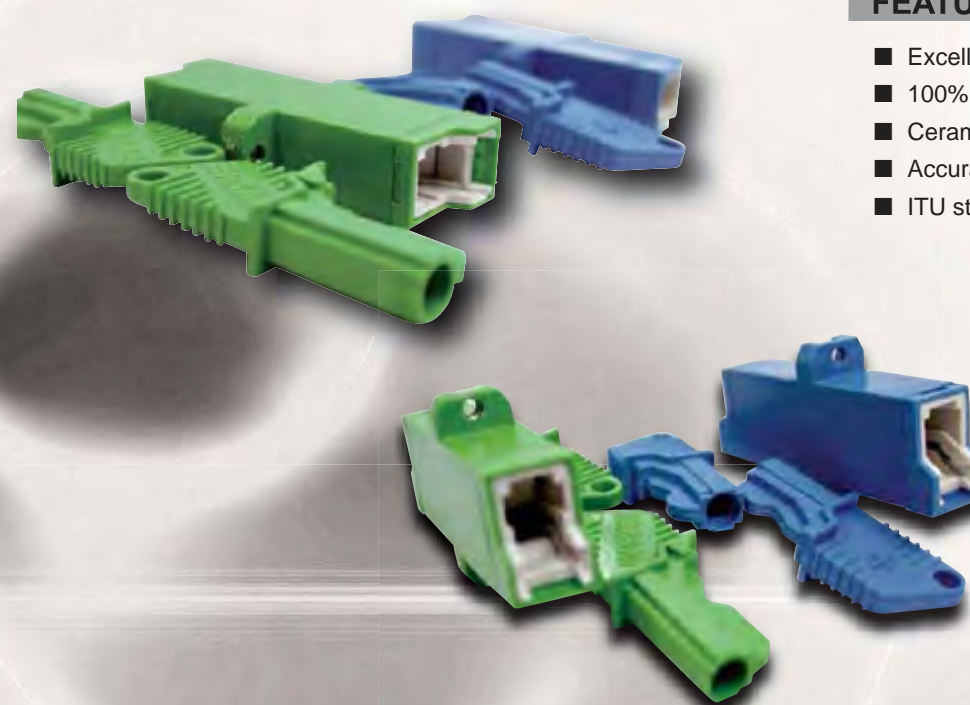
- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

FEATURES:

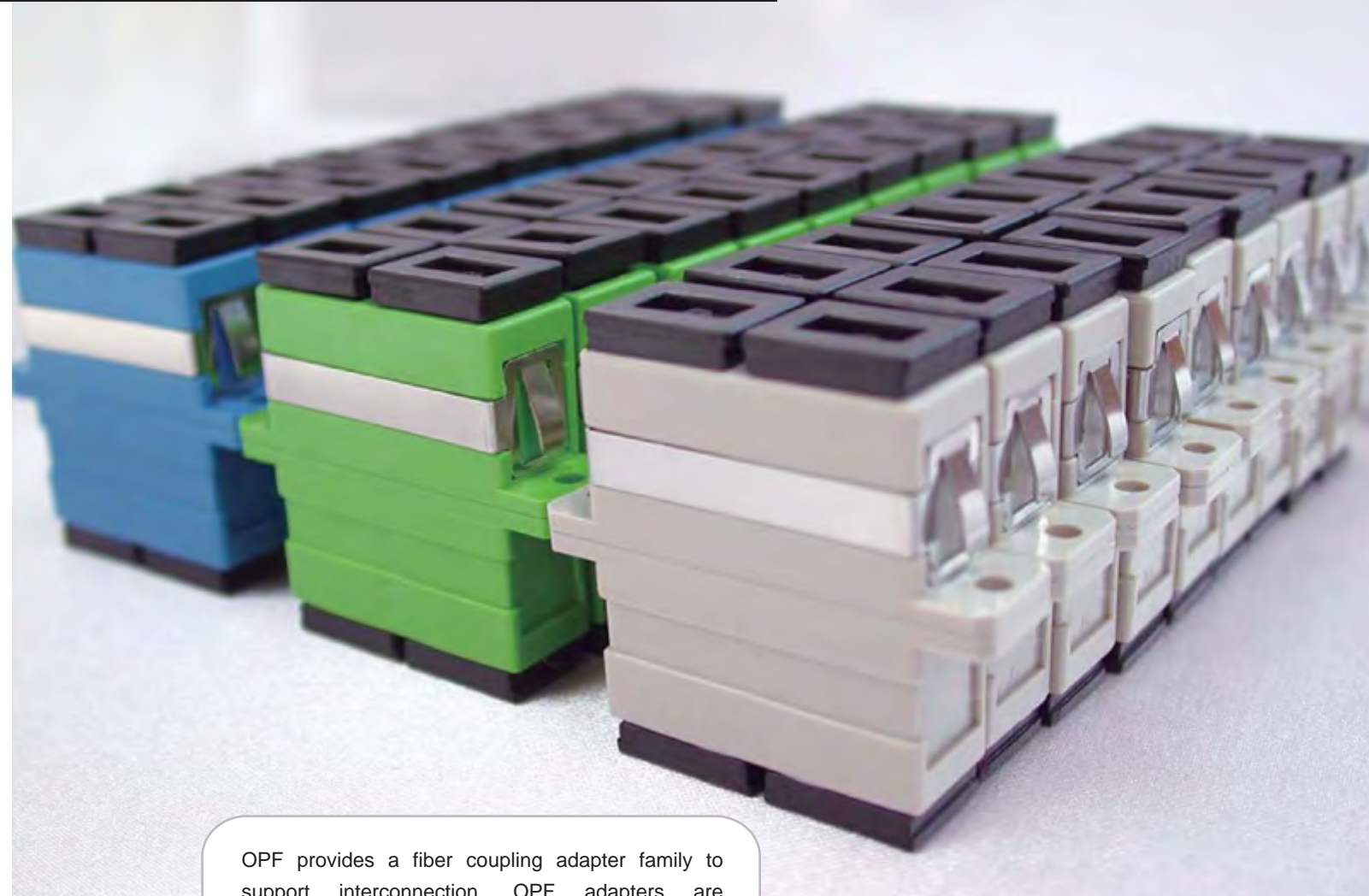
- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard

FEATURES:

- Excellent changeability and directivity
- 100% Optic test (Insertion Loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate mounting dimensions
- ITU standard



- SC Singlemode Duplex Adapters
- SC Singlemode/APC Duplex Adapters
- SC Multimode Duplex Adapters



OPF provides a fiber coupling adapter family to support interconnection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

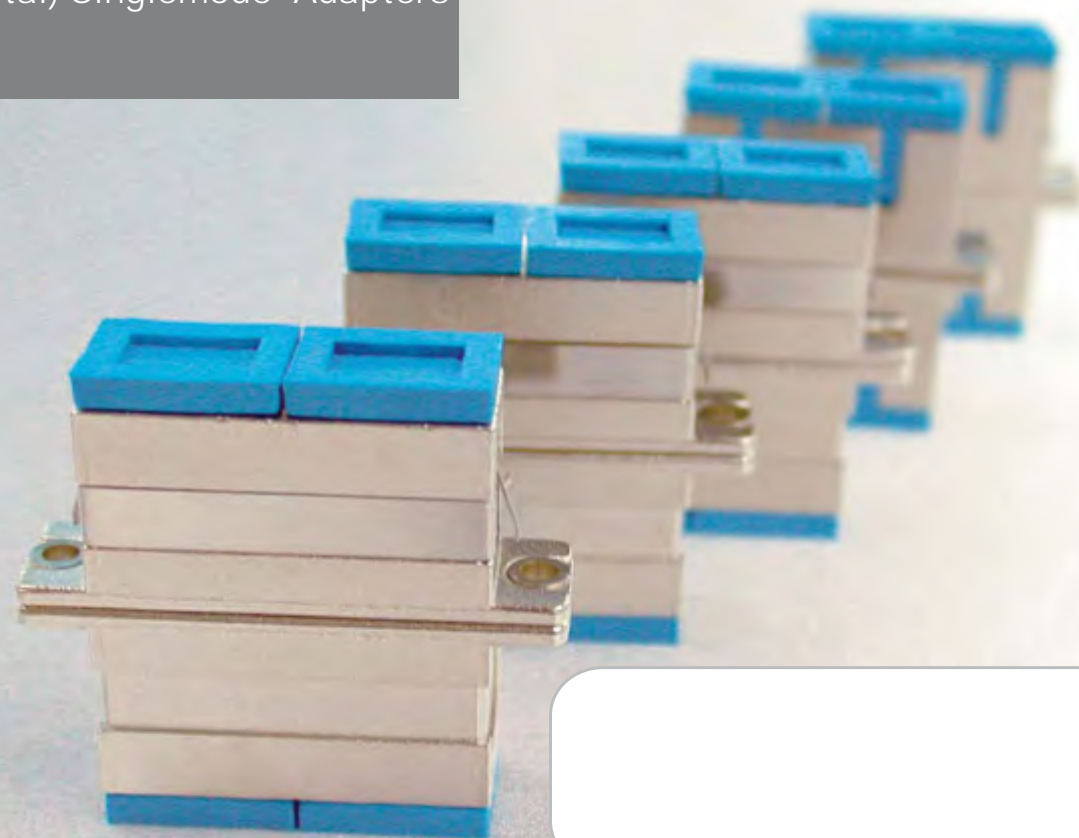


APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

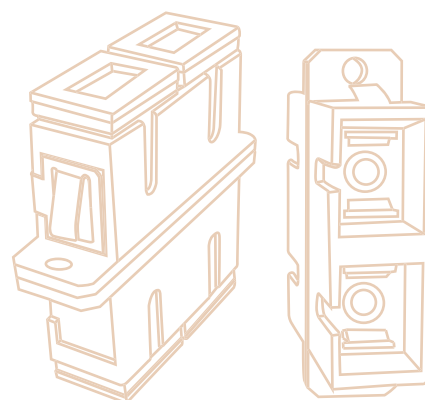


■ SC Duplex (Metal) Singlemode Adapters



APPLICATIONS:

- Fiber optic transmission system
- CATV networks
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, Mounts in Fiber Optic Wall Mount and Rack Mount Cabinets

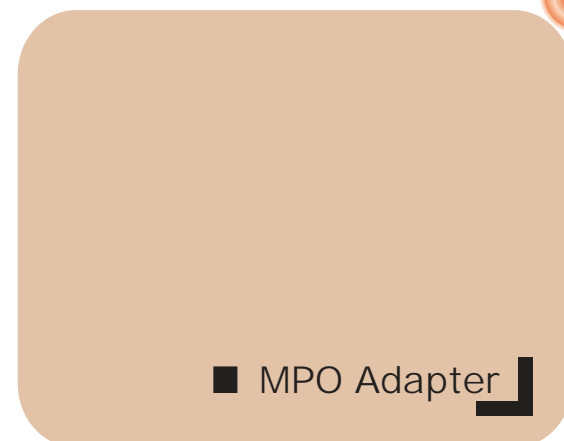


■ MU Singlemode Adapter



OPF provides a fibercoupling-adapter family to support intercon-nection. OPF adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel.

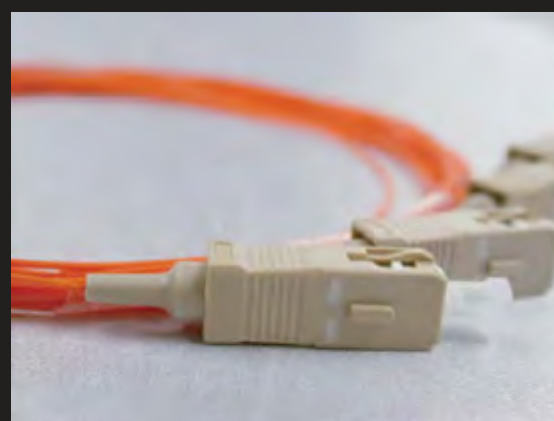
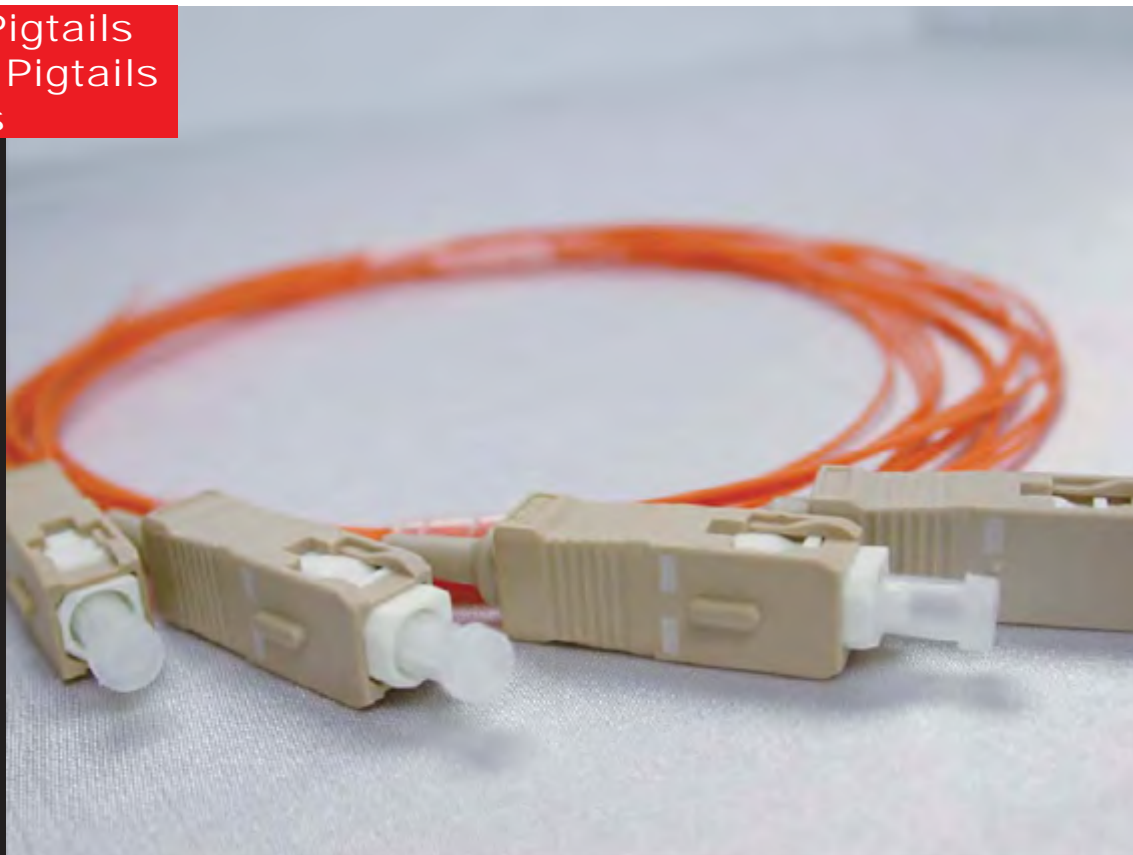
■ MPO Adapter





- SC Multimode Pigtails
- SC Singlemode Pigtails
- SC APC Pigtails

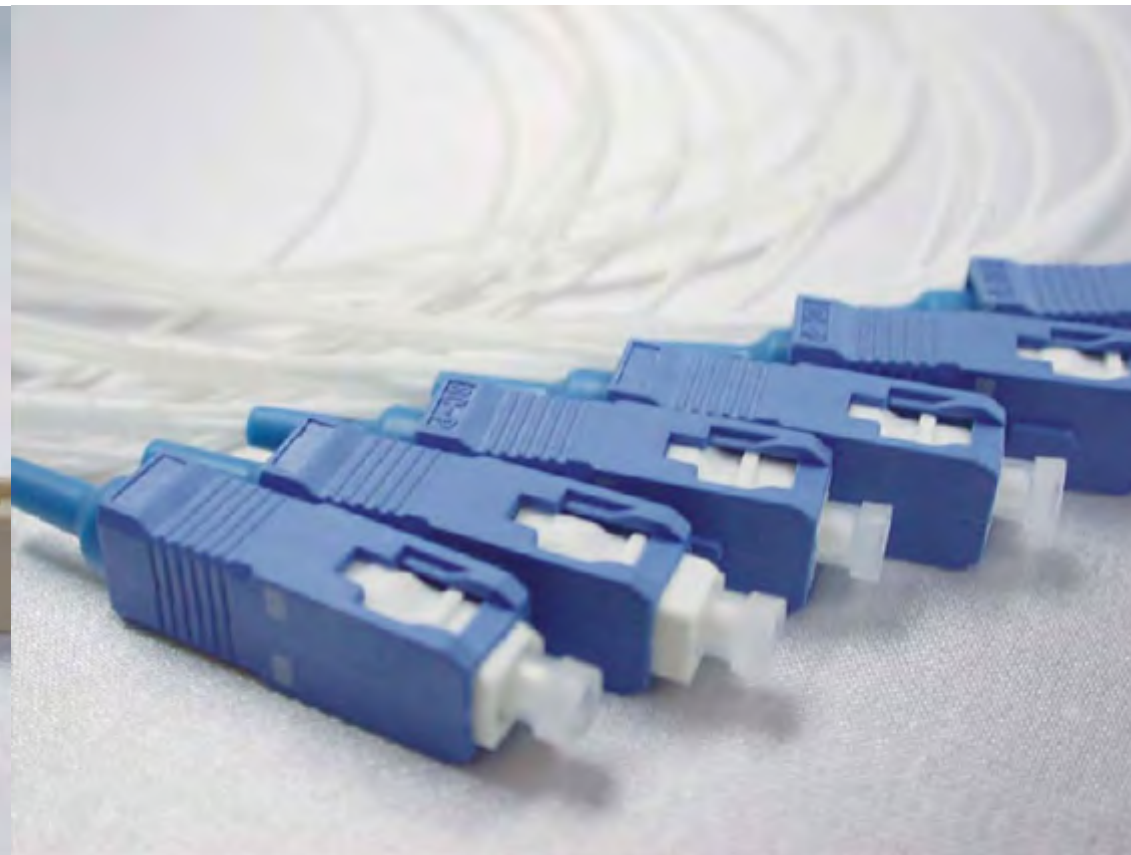
Optical fibre pigtails are essential when terminating cables within the splice enclosure. Purchasing pre-polished assemblies the risk away of poor connector termination from the project. Cables terminated within a production facility will give a higher performance than cables terminated on site. While the cable and connectors used in OPF optical fibre pigtails are the best available, it is our expertise in production that sets our products apart. OPF has 7 years experience in manufacturing fibre optic cable assemblies using Biconic and SMA through ST, SC to today's Small Form Factor connectors like the LC, MU or MT-RJ. If you have a fibre network, no matter what the technology, OPF can offer you a solution. With an OPF cable assembly you can be confident you are using the very best in cable, connectors and manufacturing.



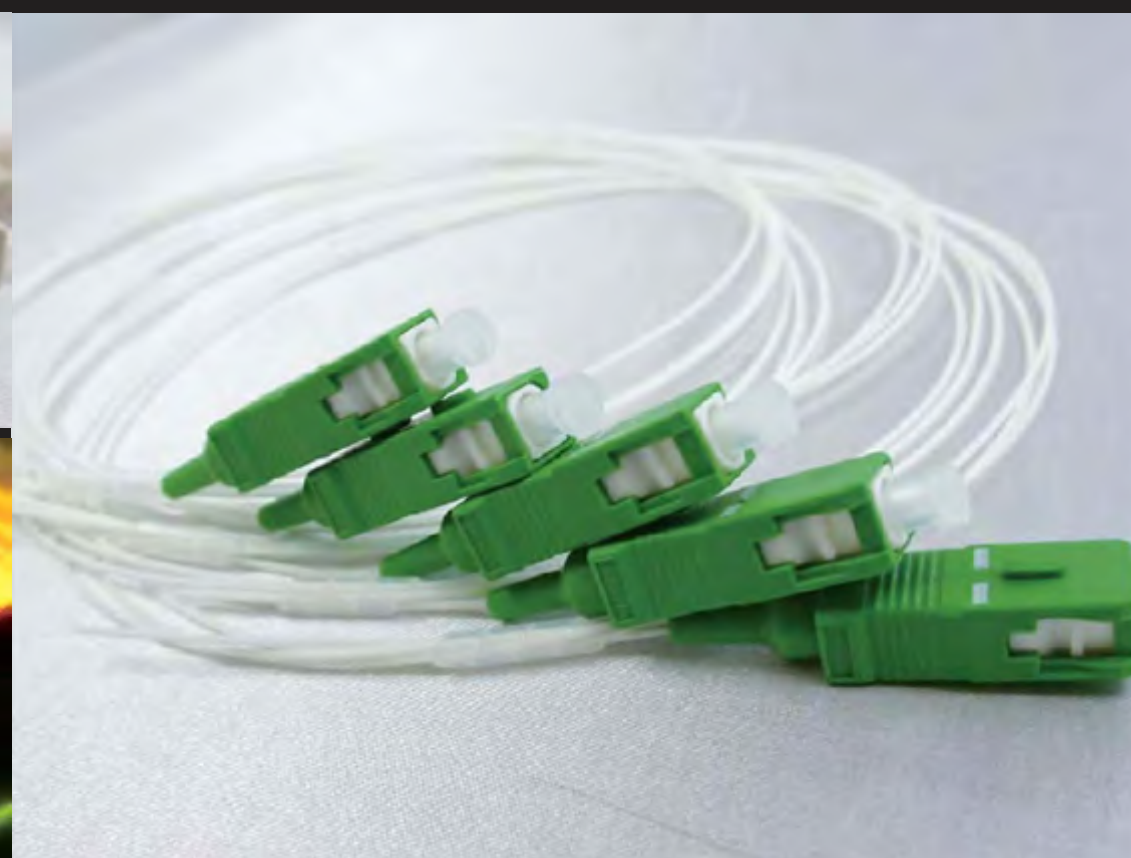
SC Multimode Pigtail

SPECIFICATION:

Optical Performance (Multimode) Insertion loss:
Max.0.3dB
Optical Performance
Insertion loss Max 0.2dB
Operating Temperature -40℃ to +85℃

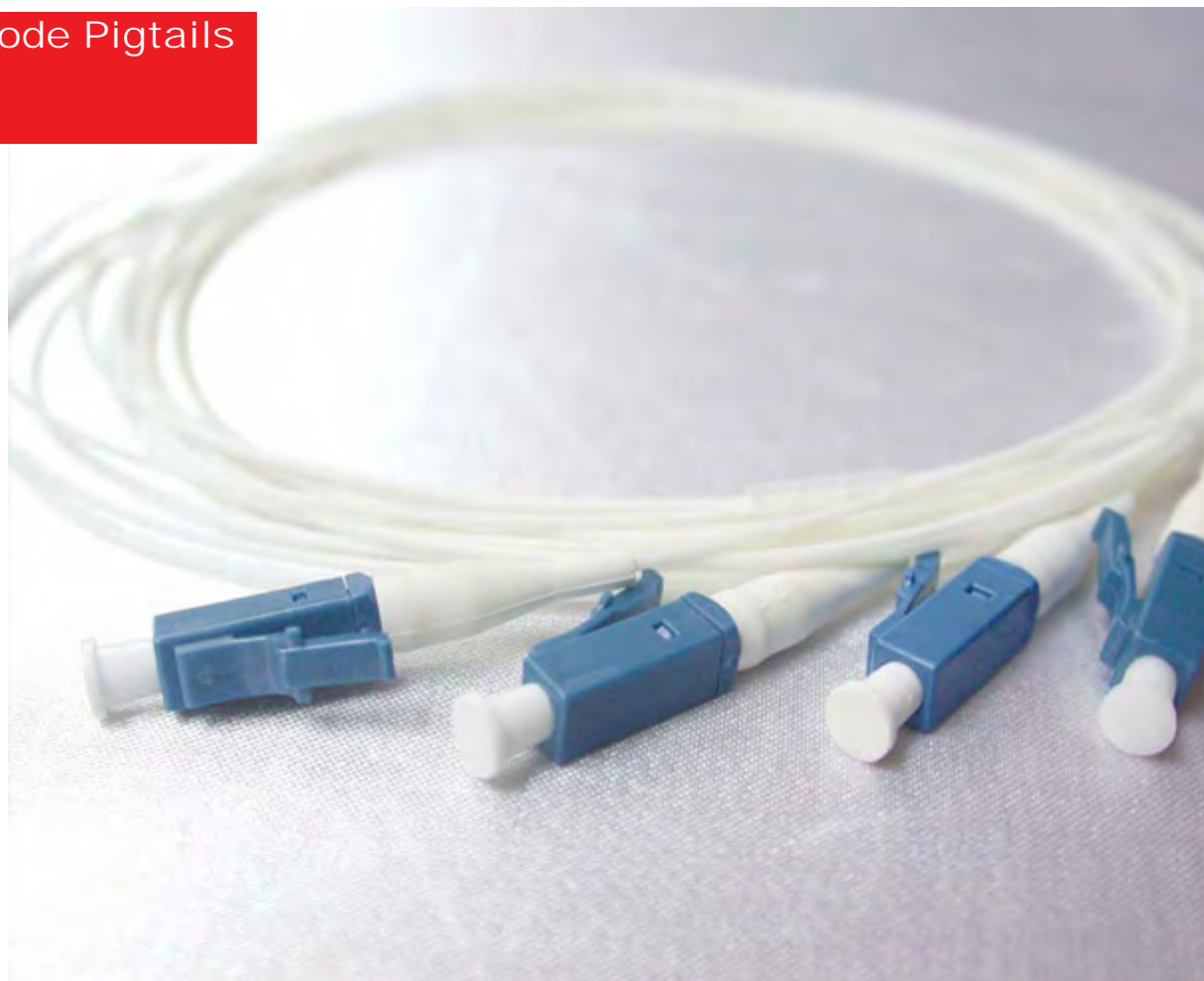


SC Singlemode Pigtail

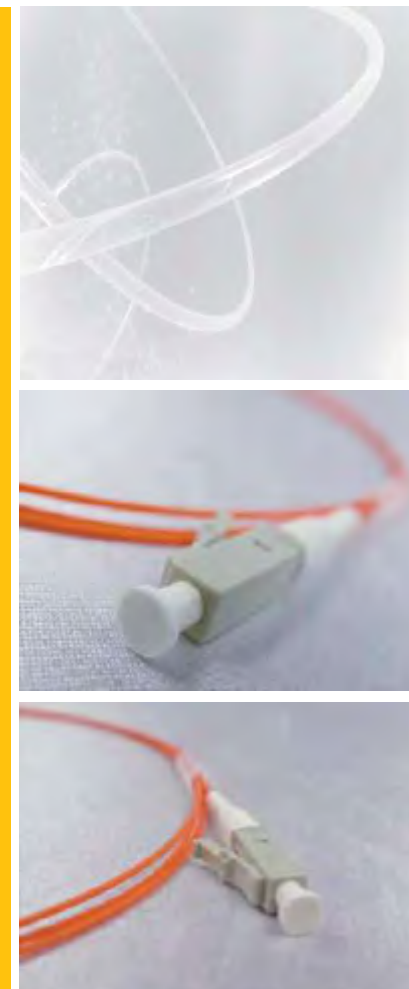


SC APC Pigtail

■ LC Singlemode Pigtails



■ LC Multimode Pigtails



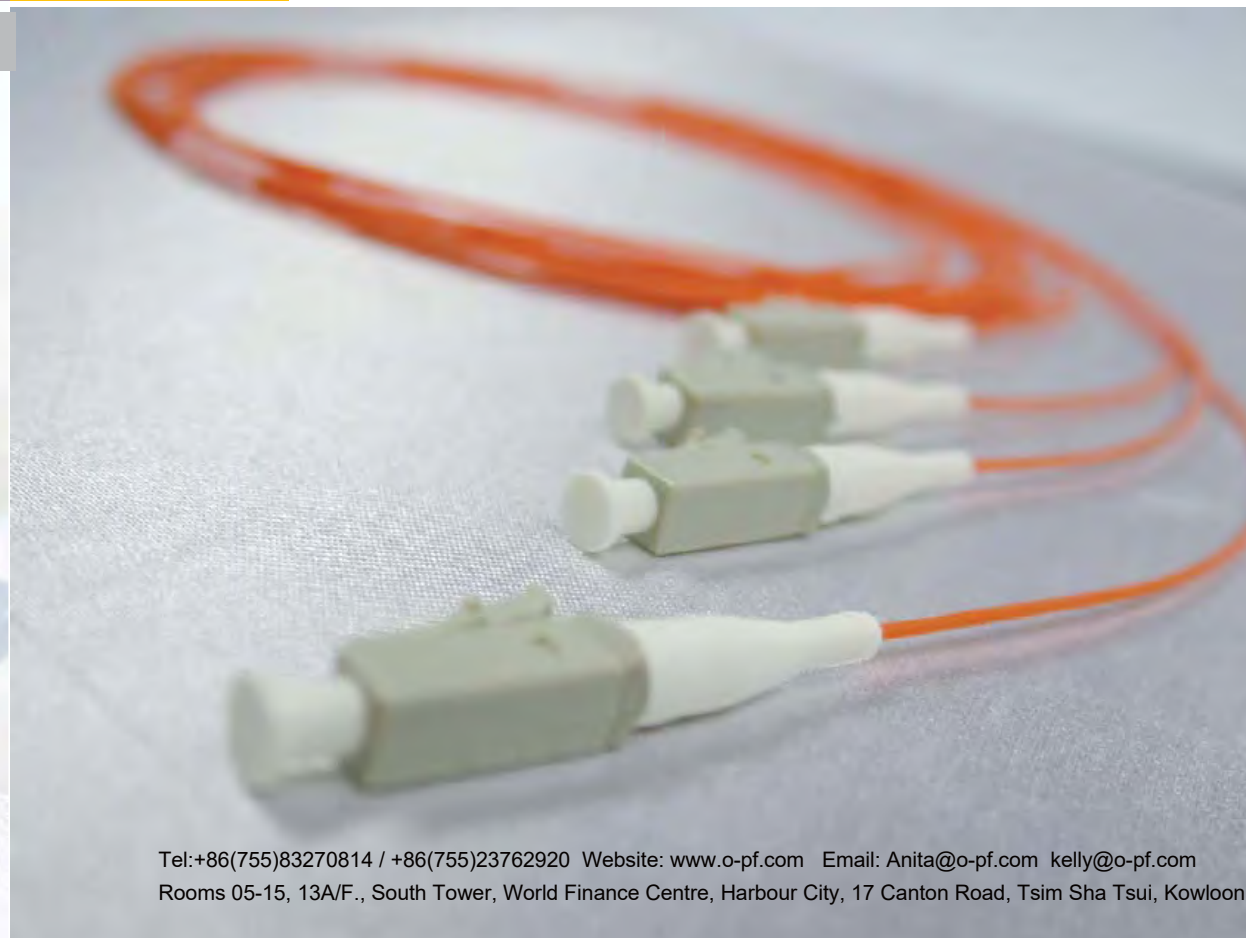
■ ISO9000 approved manufacturing facility



SPECIFICATION:

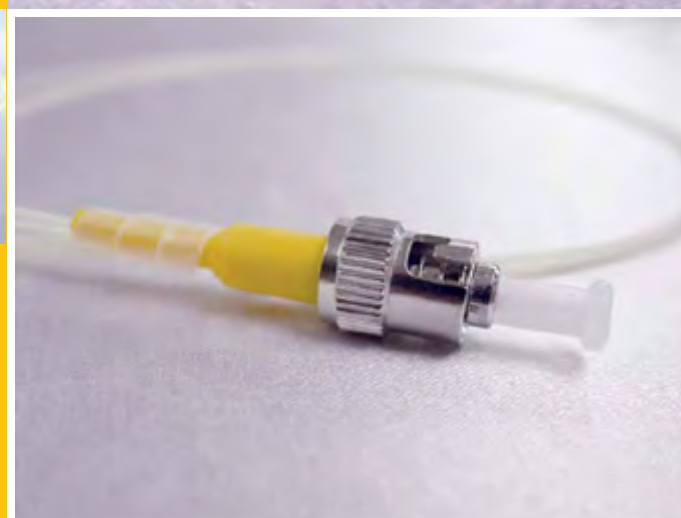
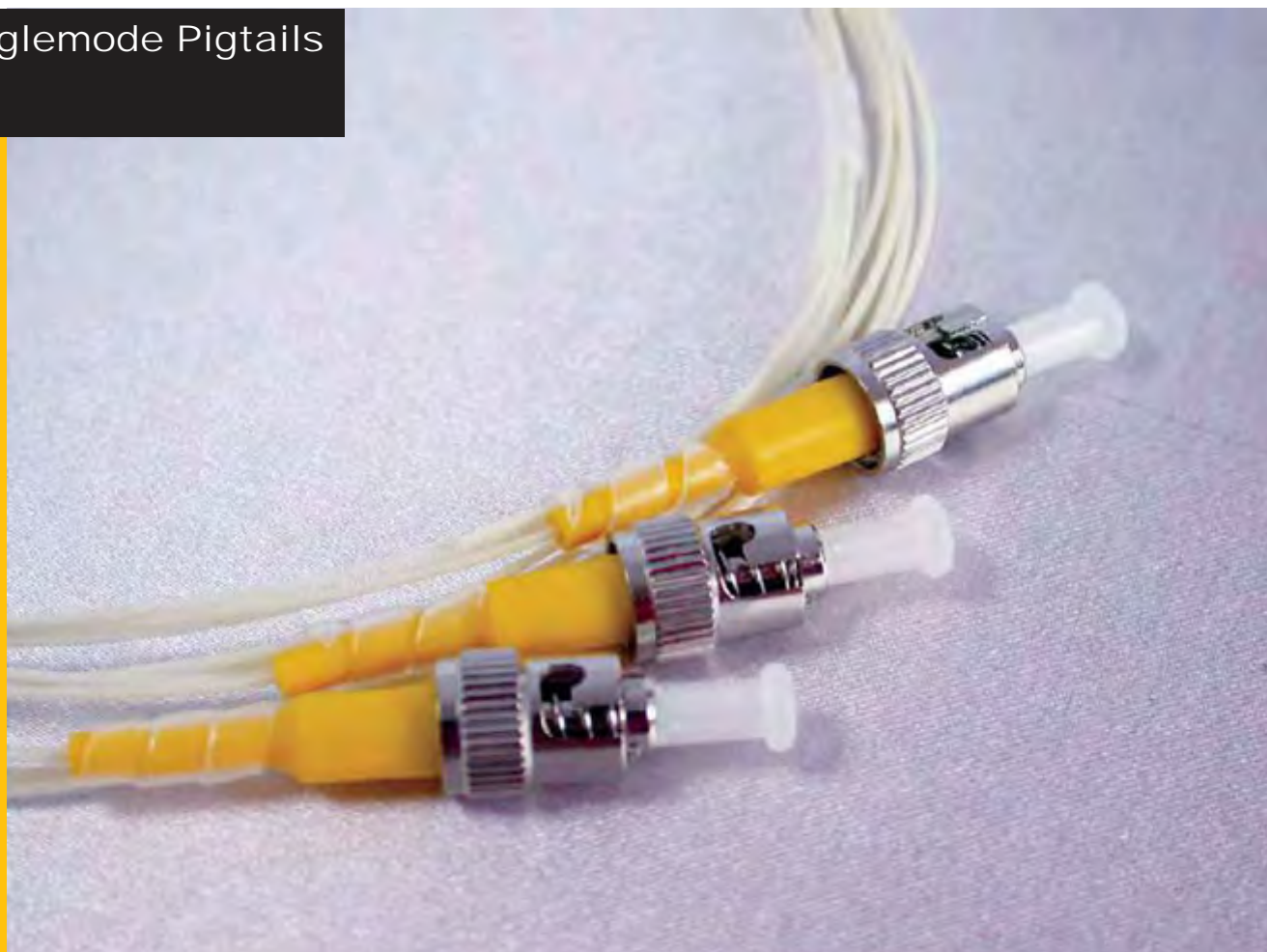
Optical Performance (Multimode) Insertion loss: Max.0.3dB
Optical Performance Insertion loss Max 0.2dB
Operating Temperature -40℃ to +85℃

Optical fibre 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. Whilst the cable and connectors used in OPF optical fibre pigtails are the best available, it is our expertise in production that sets our products apart. OPF has 7 years experience in manufacturing fibre optic cable assemblies using Biconic and SMA through ST, SC to today's Small Form Factor connectors like the LC, MU or MT-RJ. If you have a fibre network, no matter what the technology, OPF can offer you a solution. With an OPF cable assembly you can be confident you are using the very best in cable, connectors and manufacturing.



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ST Singlemode Pigtails



Optical fibre 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. Whilst the cables and connectors used in OPF optical fibre pigtails are the best available, it is our expertise in production that sets our products apart. OPF has 7 years experience in manufacturing fibre optic cable assemblies using Biconic and SMA through ST, SC to today's Small Form Factor connectors like the LC, MU or MT-RJ. If you have a fibre network, no matter what the technology, OPF can offer you a solution. With an OPF cable assembly you can be confident you are using the very best in cable, connectors and manufacturing.

ST Multimode Pigtails

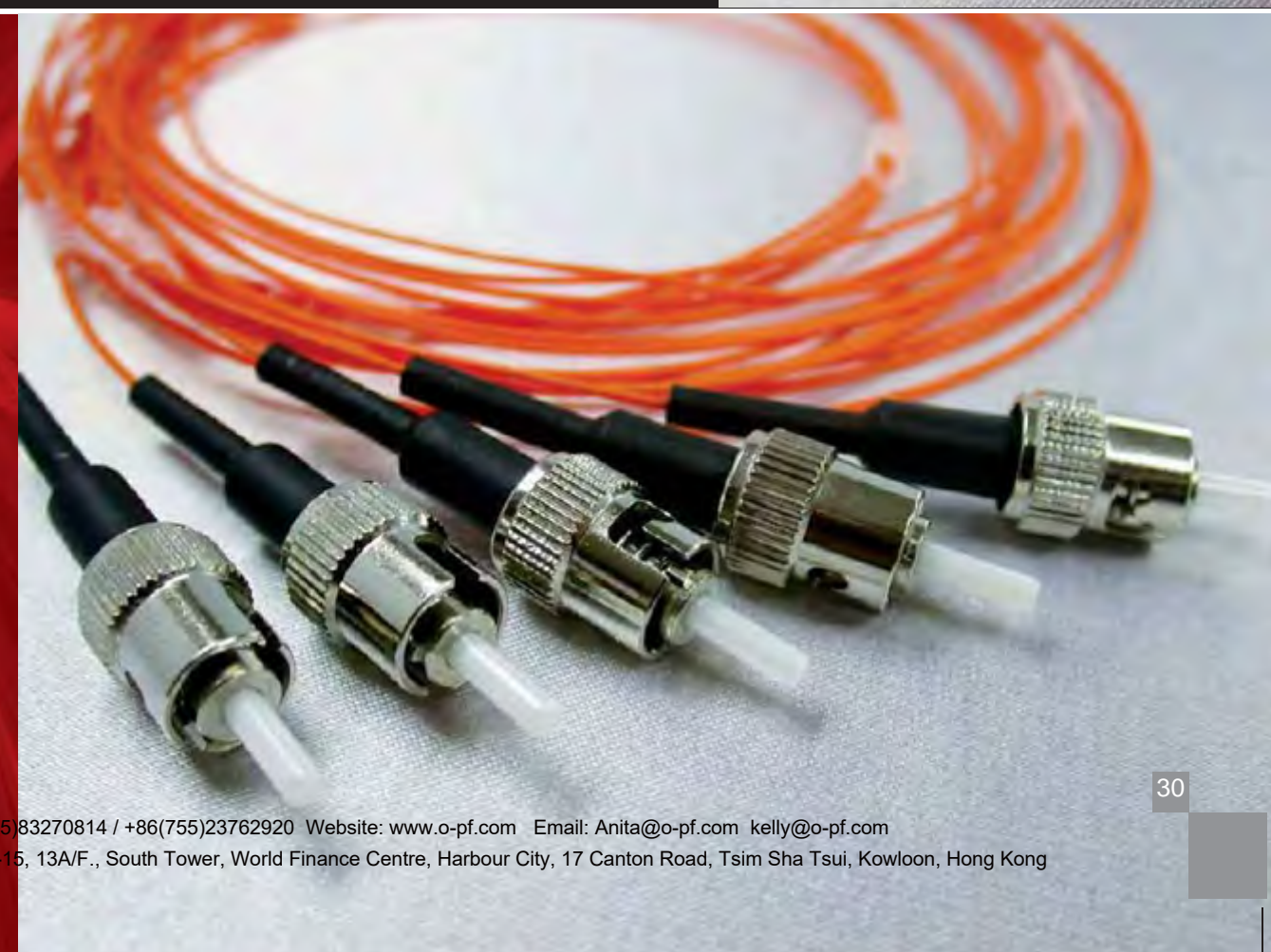


SPECIFICATION:

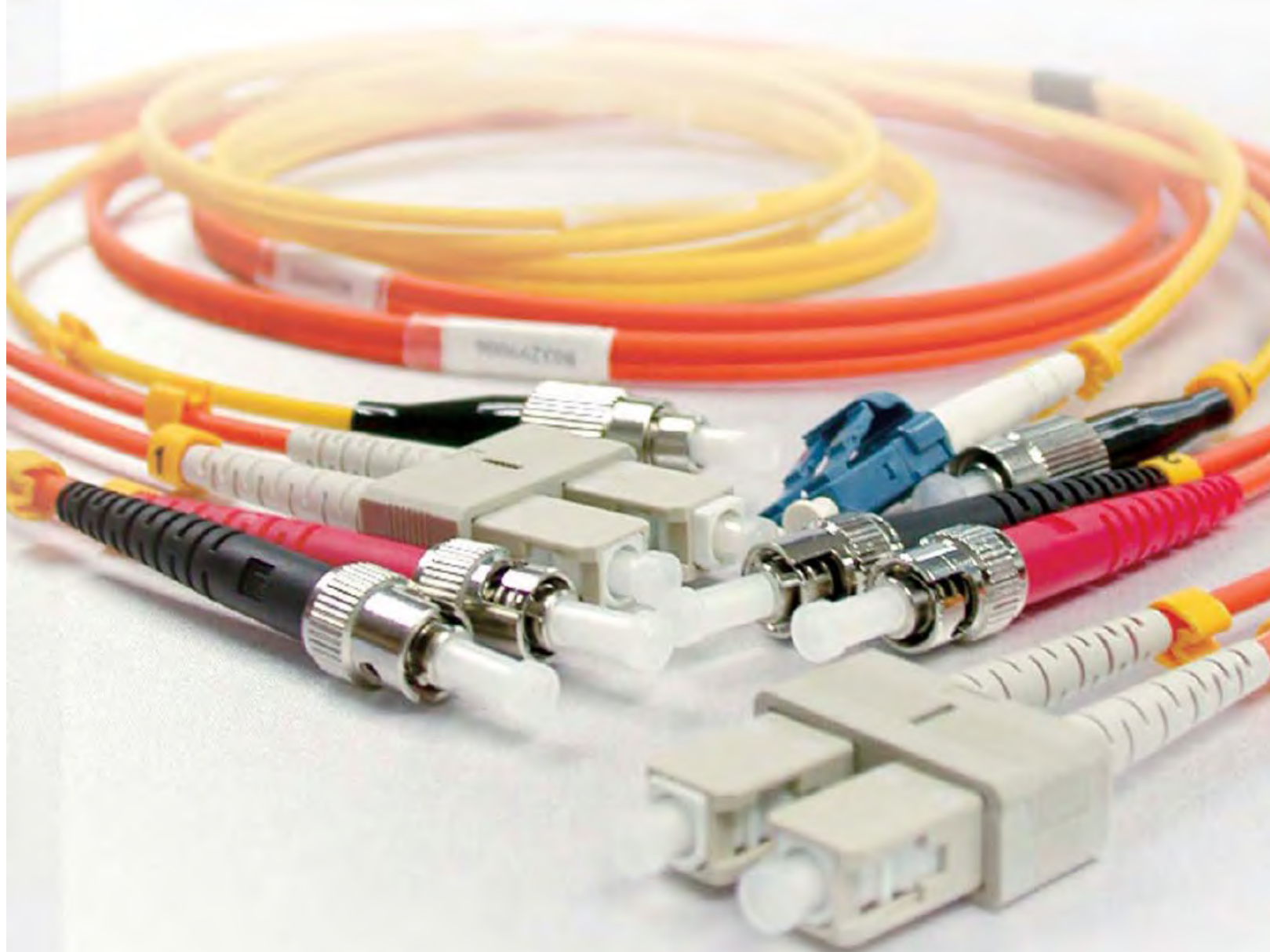
Optical Performance (Multimode)
Insertion loss: Max. 0.3dB
Optical Performance
Insertion loss Max 0.2dB
Operating Temperature -40°C to +85°C



OPTICCHINA



Fiber Patchcord Series



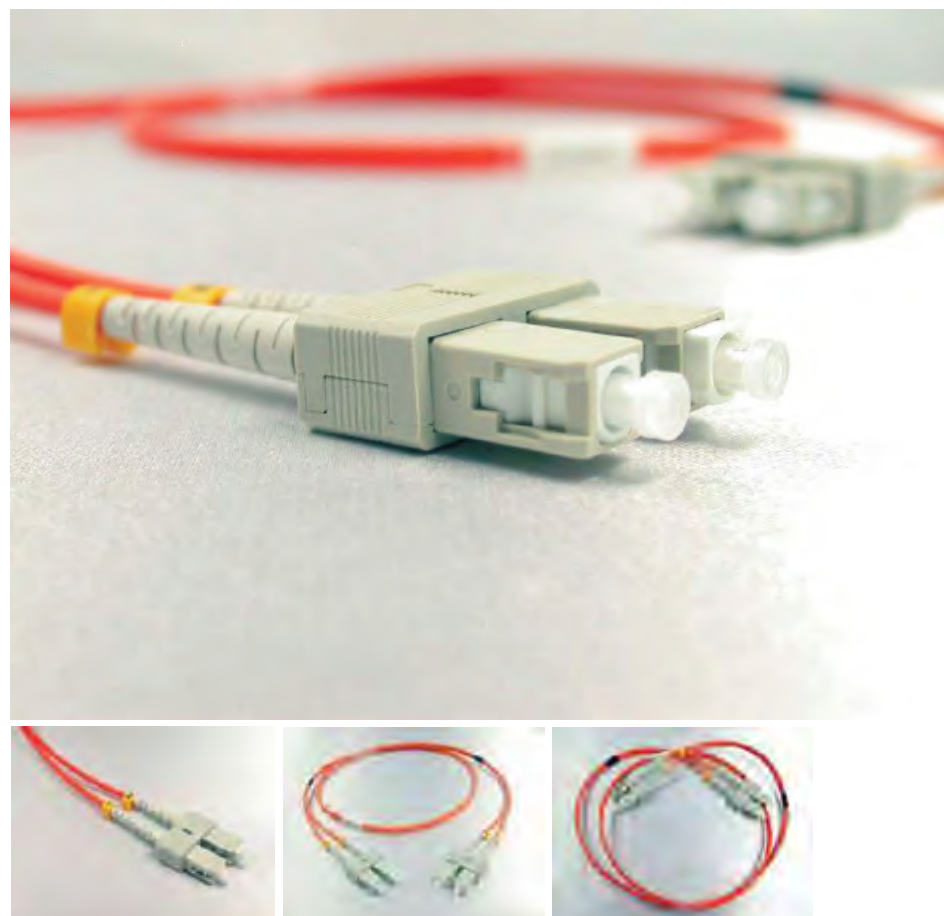
E2000 Patch Cords Singlemode/Multimode



Precision 1.25mm ceramic ferrule for maximum optical performance
 RJ style latch in a connector body half the size of a conventional
 All patch cords are 100% optically inspected and tested
 Customised print legends and jacket colors available
 Individually labeled with unique ID for traceability • A variety of boot styles and colors available

SC Patch Cords Singlemode/Multimode

OPF SC patch cords are manufactured in our state-of-the-art manufacturing facilities with our own advanced polishing and assembly processes. Multimode SC patch cords can be ordered in simplex or duplex configurations with Riser (OFNR), Plenum (OFNP) or Low Smoke Zero Halogen (OFN-LS) patch cord designs. Our advanced polishing process and stringent test requirements yield low insertion loss patchcords every time. All OPF SC patch cords are compliant with EIA/TIA 568A, TIA 604 FOCIS 3 and ISO 11801 for optical performance and intermateability. Our advanced polishing process and measuring equipment allows us to manufacture the highest quality patch cords needed for today's stringent optical networks.



FEATURES:

- All ceramic ferrules for maximum optical and mechanical performance.
- All patch cords are 100% optically inspected and tested Individually labeled with unique ID for traceability.
- A variety of fiber and cable types available A variety of boot styles and colors available
- Custom print legends and jacket colors available EIA/TIA Compliant.

APPLICATIONS:

LANS and WANS (Ethernet, FDDI & Fiber Channel) • Test Equipment • CCTV and Security.

TECHNICAL SPECIFICATIONS :

Fiber Type	62.5/125m	50/125m	9/125m
Max. Insertion Loss (@850nm)	≤0.3dB	≤0.3dB	≤0.3dB
Typ. Insertion Loss	≤0.2dB	≤0.2dB	≤0.2dB
Typ. Return Loss	≥35dB	≥35dB	PC≥45dB
			UPC≥55dB
			APC≥60dB
Cable Retention (900um)	2 lbs.	2 lbs.	2 lbs.
Mating Durability (500 cycles)	<0.2 dB	<0.2 dB	<0.2 dB
Ferrule Material	Ceramic	Ceramic	Ceramic
Housing Material	Composite	Composite	Composite

LC Patch Cords Singlemode/Multimode

OPF LC patch cords are manufactured in our state-of-the-art manufacturing facilities with our own advanced polishing and assembly processes. Multimode LC patch cords can be ordered in simplex or duplex configurations with Riser (OFNR), Plenum (OFNP) or Low Smoke Zero Halogen (OFN-LS) patch cord designs. Our advanced polishing process and measuring equipment allows us to manufacture the highest quality patchcords needed for today's stringent optical networks and systems. Precise control of our polishing process and stringent test requirements yield low insertion loss patch cords every time. All OPF Multimode FC patch cords are compliant with EIA/TIA 568A, TIA 604 FOCIS 4 for optical performance and intermateability.

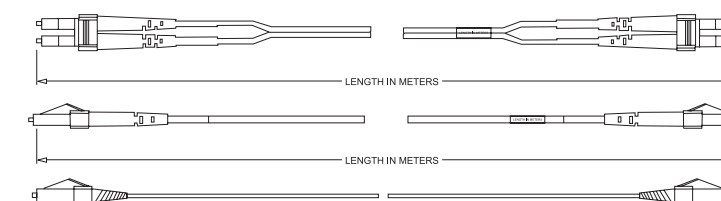


FEATURES:

- Precision 1.25mm ceramic ferrule for maximum optical performance.
- RJ style latch in a connector body half the size of a conventional SC.
- All patch cords are 100% optically inspected and tested • Custom print legends and jacket colors available.
- Individually labeled with unique ID for traceability • A variety of boot styles and colors available.

APPLICATIONS:

LANS and WANS (Ethernet, FDDI & Fiber Channel)
• Test Equipment • CCTV and Security



TECHNICAL SPECIFICATIONS :

Fiber Type	62.5/125m	50/125m	9/125m
Max. Insertion Loss (@850nm)	≤0.3dB	≤0.3dB	≤0.3dB
Typ. Insertion Loss	≤0.2dB	≤0.2dB	≤0.2dB
Typ. Return Loss	≥35dB	≥35dB	PC≥45dB
			UPC≥55dB
			APC≥60dB
Cable Retention (900um)	2 lbs.	2 lbs.	2 lbs.
Mating Durability (500 cycles)	<0.2 dB	<0.2 dB	<0.2 dB
Ferrule Material	Ceramic	Ceramic	Ceramic
Housing Material	Composite	Composite	Composite



■ ST Patch Cords
Singlemode/Multimode

OPF ST patch cords are manufactured in our state-of-the-art manufacturing facilities with our own advanced polishing and assembly processes. Our ST patch cords can be ordered in simplex or duplex configurations with Riser (OFNR), Plenum (OFNP) or Low Smoke Zero Halogen (OFN-LS) patch cord designs. Our advanced polishing process and measuring equipment allows us to manufacture the highest quality patch cords needed for today's stringent optical networks and systems. Precise control of our polishing process and stringent test requirements yield low insertion loss patch cords every time. All OPF ST patch cords are compliant with EIA/TIA 568A and TIA 604 FOCIS 2 for optical performance and intermateability.



■ FC Patch Cords
Singlemode/Multimode



OPF FC patch cords are manufactured in our state-of-the-art manufacturing facilities with our own advanced polishing and assembly processes. Multimode FC patch cords can be ordered in simplex or duplex configurations with Riser (OFNR), Plenum (OFNP) or Low Smoke Zero Halogen (OFN-LS) patch cord designs. Our advanced polishing process and measuring equipment allows us to manufacture the highest quality patch cords needed for today's stringent optical networks and systems. Precise control of our polishing process and stringent test requirements yield low insertion loss patch cords every time. All OPF Multimode FC patch cords are compliant with EIA/TIA 568A, TIA 604 FOCIS 4 for optical performance and intermateability.



APPLICATIONS:

LANS and WANS (Ethernet, FDDI & Fiber Channel) • Test Equipment • CCTV and Security.

FEATURE:

All ceramic ferrules for maximum optical and mechanical performance.
All patch cords are 100% optically inspected and tested • Individually labeled with unique ID for traceability.
A variety of fiber and cable types available • A variety of boot styles and colors available.
Custom print legends and jacket colors available • EIA/TIA Compliant.

TECHNICAL SPECIFICATIONS :

Fiber Type	62.5/125m	50/125m	9/125m
Max. Insertion Loss (@850nm)	≤0.3dB	≤0.3dB	≤0.3dB
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Typ. Return Loss	≥35dB	≥35dB	PC≥45dB
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			APC≥60dB
Cable Retention (900um)	2 lbs.	2 lbs.	2 lbs.
Mating Durability (500 cycles)	<0.2 dB	<0.2 dB	<0.2 dB
Ferrule Material	Ceramic	Ceramic	Ceramic
Housing Material	Composite	Composite	Composite

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■ Panels



OPF's Rack Mount Housings are suitable for any cable design and can be used with both Fiber Distribution Modules (FDMs) and standard adapter plates. The Rack Mount Housings are available in 1U and 4U rack space versions and can fit into a standard 19" equipment rack or cabinet. The 1U sized panel is available with front and rear access for easy patch cord access while the 4U sized housing is equipped with front and rear doors. The panels accommodate FDM quantities and adapter plates as well.



SPECIFICATION:	
Fast and easy installation in a an equipment rack	Minimized installation labor costs and lead time
FDMs and adapter plates mounted with simple twist lock fasteners	Fast set-up and changes to system configurations
Easy access to front and rear connectors for modular cable attachment	Easily access the connectors for cleaning and reconfiguration
Compact	Facilitates up to 144 fibers in a 4U rack mount, 36 in a 1U open reconfiguration and 24 in a 1U closed panel
Flexible	Easily reconfigured, accommodates industry standard hardware
Pre-Assembled	Saves time
Large, sturdy slack management brackets	Save time installing cables

Shown in the following table:

Housing Type	Quantity of FDMs or Adapter Plates
High Density 1U Rack Mount Housing	(3) 4 or (2) 5
1U Rack Mount Enclosed Housing	(2) 4 or (2) 5
4U Rack Mount Housing	(12) 4 or (12) 5

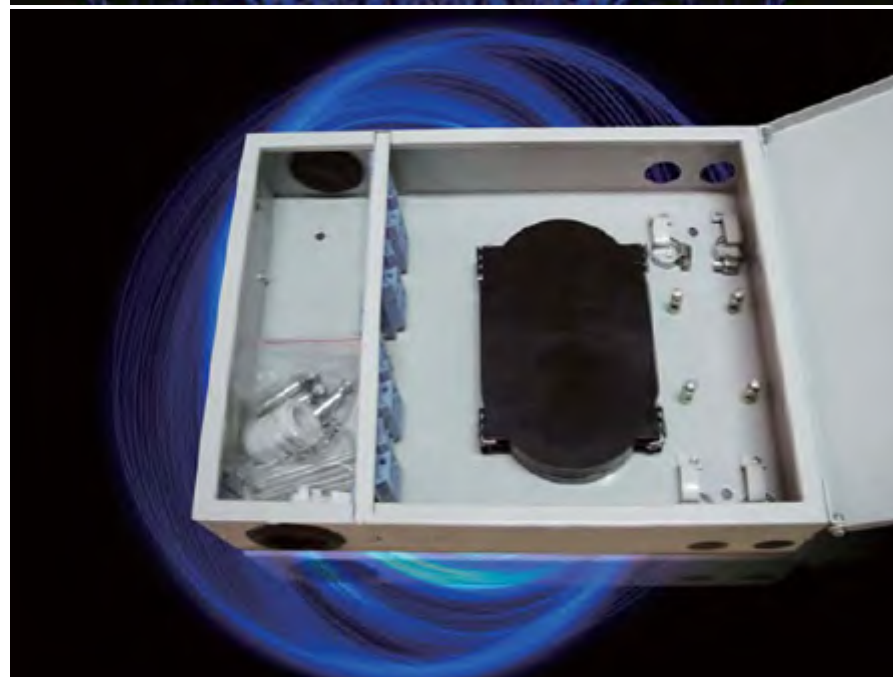
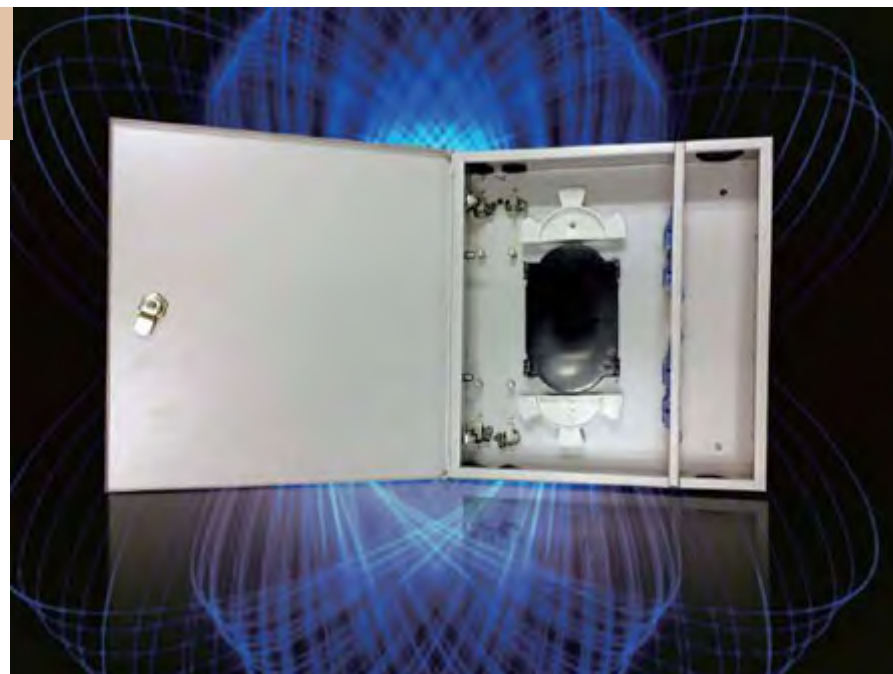
The panels are fabricated from sheet steel or aluminum with a robust black powder coat with a light textured finish. Hardware is made from nickel or chromate plated steel. Rear openings on closed panels are equipped with grommets to protect cables and are equipped with cable management features.



Wall Box



OPF Wall Mount Fiber Optic Housings are ideal for telecommunications closet where rack space is not available. The Wall Mount Housing provides easy access and installation of the Fiber Distribution Modules (FDM) or standard adapter panels. The Wall Mount Housing can accommodate both loose tube and tight buffered cables for greater flexibility. A Wall Mount Housing with the pre-terminated FDM can increase the productivity of the installation crew during installation. The Wall Mount Fiber Optic Housings are constructed from sheet steel or aluminum with a robust black powder coat and a light textured finish. An optional locking kit is available for extra security. The Wall Mount Fiber Optic Housing can be used for both single mode and multimode applications and the FDMs or panels are completely compatible with OPF Rack mountable hardware.



shown in the following table:

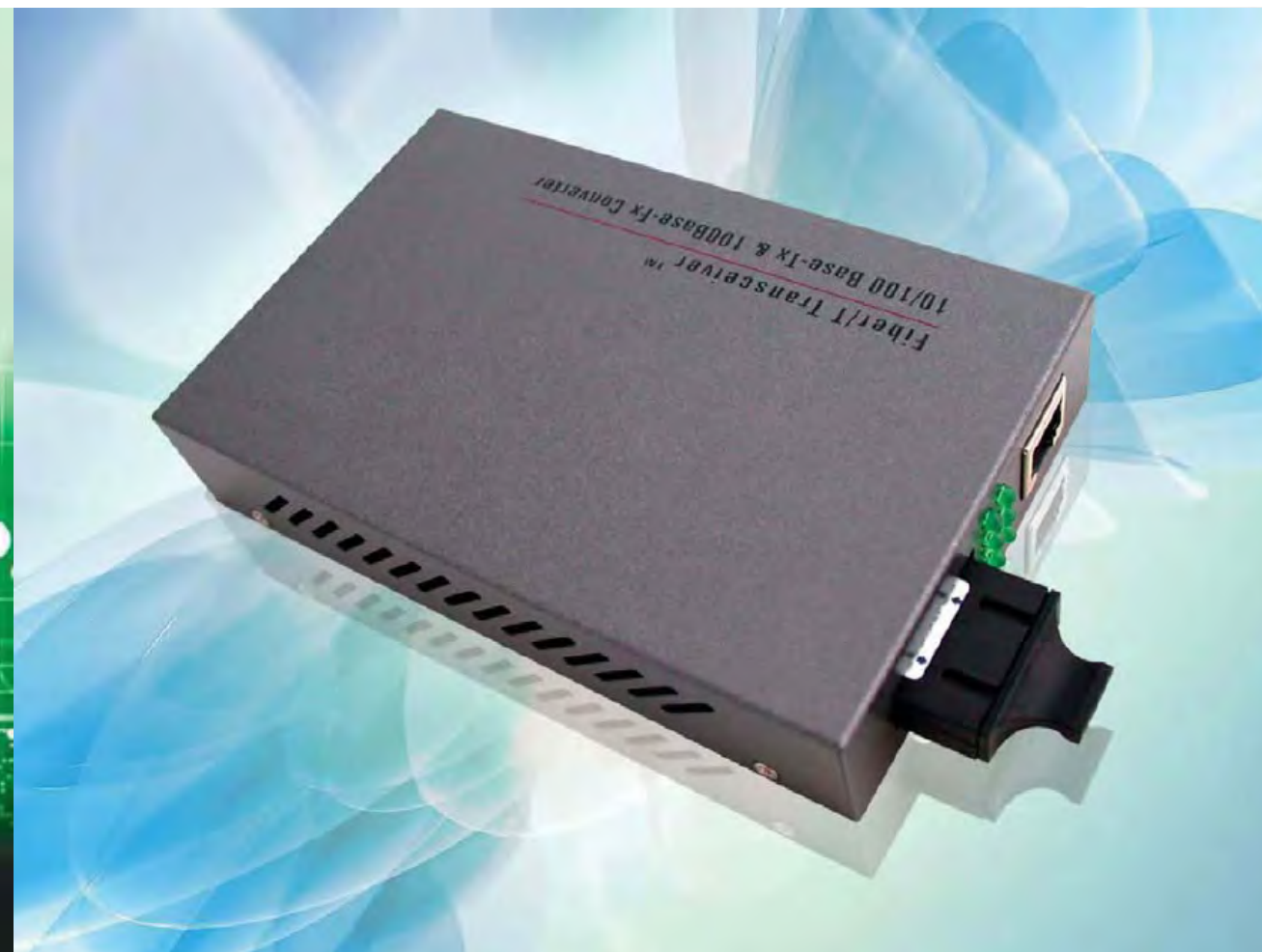
Lockable	Restricts entry and eliminates unauthorized access
Compact	Easily mounted on wall or in raised floor requiring minimal space
Identification label	Facilitates location of specific cables quickly and easily
Available Preloaded	Installs quickly with few tools
Grommetted cable entry	Protects cables from damage
Internal cable management features available	Excess cable stored quickly and neatly

Chassis Media Converter

All Fast Ethernet Converters from OPF are compact size units with metal cases to fulfill the FCC emission standards. The 100Base-TX and the 100Base-FX converter feature LED diagnostics for Power, Activity, Link and Full Duplex / Half Duplex operation.



Media Converters



All Fast Media Converters from OPF are compact size units with metal cases to fulfill the FCC emission standards. The 100Base-TX and the 100Base-FX converter feature LED diagnostics for Power, Activity, Link and Full Duplex / Half Duplex operation. All converters are fully compliant with the IEEE 802.3 & 802.3u Fast Ethernet standards and feature one STP-RJ45 10/100Base-TX port as well as one Fiber Optic 100Base-FX (SC/ST/MTRJ) port. In multi mode applications distances up to 100,000m/300,000m can be achieved. Each unit is powered by an external power supply. Installation of the Fast Ethernet converter is simple and straightforward. The powerful features are as 10/100 Auto Negotiation, Auto cross over for TP port, Fiber Link Alarm, Voltage supervisor, and support switch mode & pure converter mode.



Fiber Optic Details:							
Connector Type	Fiber Type	Wavelength	Typical Distance	Min TX PWR	Max TX PWR	Sensitivity	Link Budget
ST/SC	Multimode	850nm	2km	-19.0dBm	-14.0dBm	-30.0dBm	11.0dB
MTRJ	Multimode	850nm	2km	-19.0dBm	-14.0dBm	-30.0dBm	11.0dB
SC	Singlemode	1310nm	10km	-18.0dBm	-7.0dBm	-28.0dBm	10.0dB
SC	Singlemode	1310nm	20km	-20.0dBm	-7.0dBm	-32.0dBm	14.0dB
SC	Singlemode	1310nm	25km	-15.0dBm	-7.0dBm	-34.0dBm	19.0dB
SC	Singlemode	1310nm	40km	-5.0dBm	0dBm	-34.0dBm	29.0dB
SC	Singlemode	1310nm	60km	-3.0dBm	0dBm	-38.0dBm	35.0dB
SC	Singlemode	1310nm	80km	-2.0dBm	3dBm	-37.0dBm	35.0dB
SC	Singlemode	1550nm	100km	-5.0dBm	0dBm	-36.0dBm	31.0dB