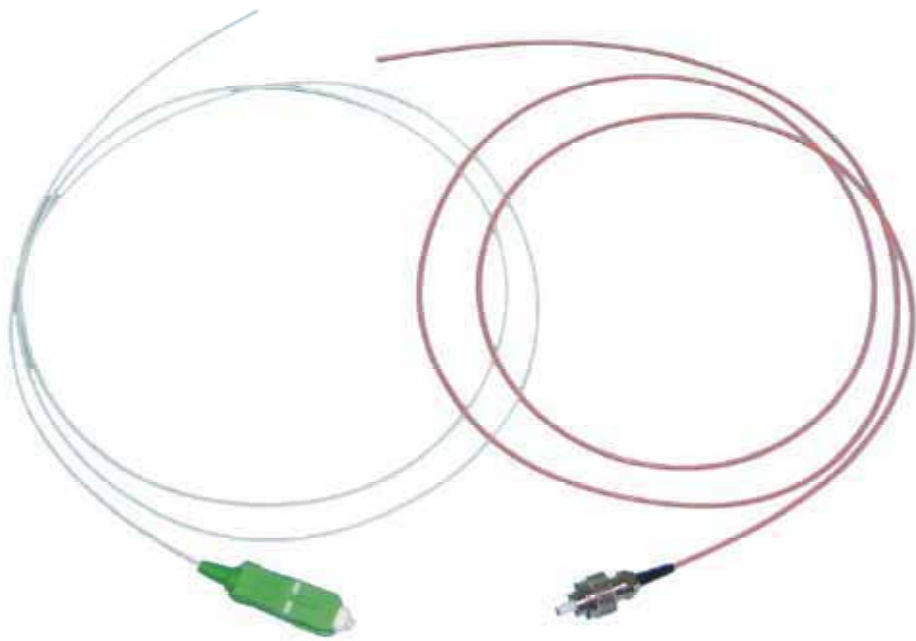
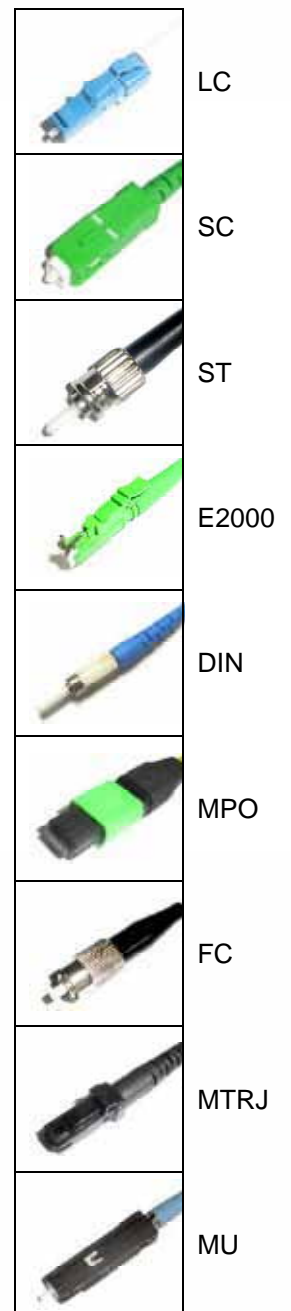


Optical Fibre Pigtails

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.



- Multimode & Singlemode applications LC/SC/ST/E2000/DIN/MPO/FC/MTRJ/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.
- 900µm tight buffered fibre optic cable.



Specifications

* Pigtail Specification

Mechanical

Length: 1.5m ± 10mm

Other lengths available to order

Product Packaging

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

* Connector Specification

Optical Performance (Singlemode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB ;

Return loss: UPC > 50dB, APC >60Db

(Multimode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB

Optical Performance (MT-RJ): Insertion loss: Max. 0.5 dB

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

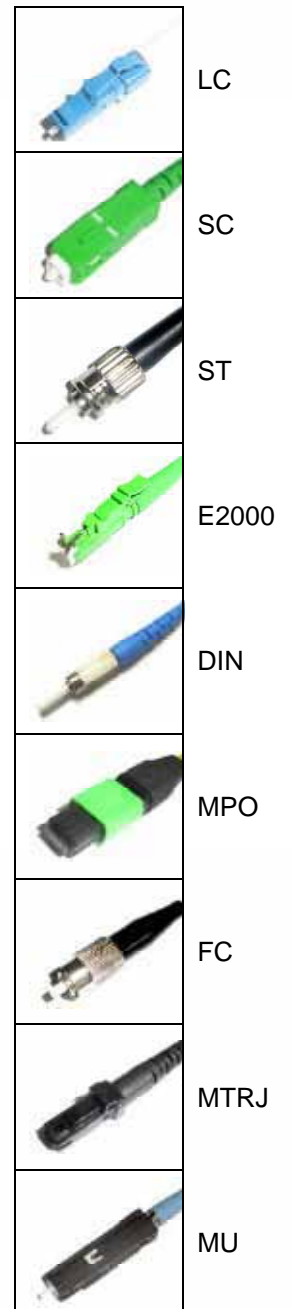
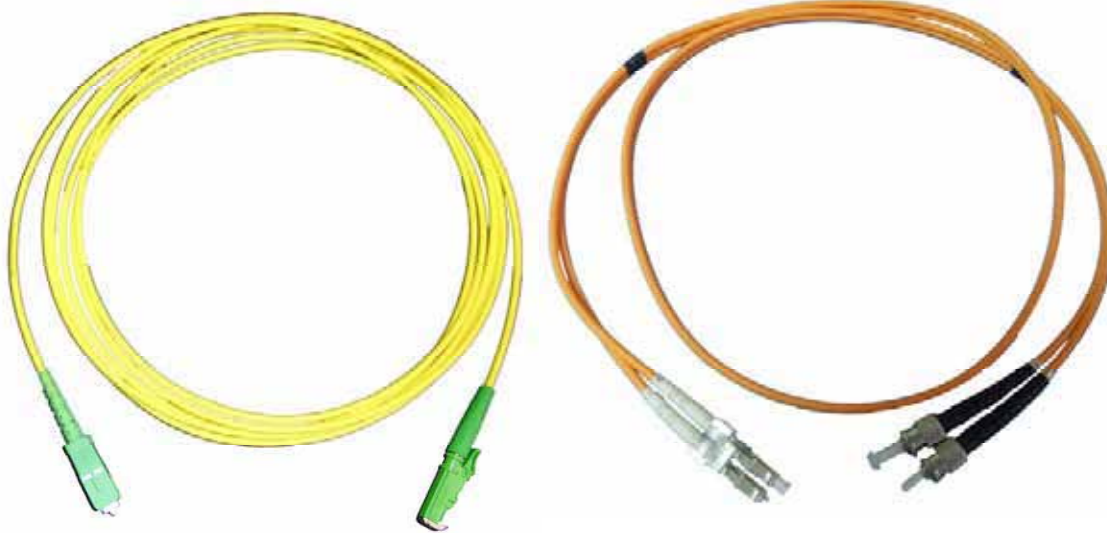
Ordering Information

Connector Type	Type	Count	Cable OD	Cable Material	Color	Length
1000 — 0 —						
1 : LC/PC	S : SM	S : Simplex	09 : 0.9mm	P : PVC	Y : Yellow	001 : 1M
2 : SC/PC	6 : 62.5/125		18 : 1.8mm	L : LSZH	O : Orange	002 : 2M
3 : ST/PC	5 : 50/125		20 : 2.0mm		G : Green	002A : 2.5M
4 : E2000 /PC	B : OM3		24 : 2.4mm		R : Red	...
5 : DIN/PC			30 : 3.0mm		W : White	
6 : MPO					B : Black	
7 : FC/PC					L : Blue	
8 : MTRJ					P : Purple	
9 : MU						
A : LC/APC						
B : SC/APC						
C : E2000/APC						
D : FC/APC						
L : LX.5/PC						



Optical Fibre Patchcords

Fiber optic patch cord is one of most commonly used components in fiber optic network. fiber optic patch cords sometimes is also called fiber optic jumper or fiber optic patch cables. generally there are two types of fiber optic patch cords: single mode fiber optic patch cords and multimode fiber optic patch cords. here the word mode means the transmitting mode of the fiber optic light in the fiber optic cable core. usually single mode fiber optic patch cord are with 9/125 fiber glass and is yellow jacket color, multi mode fiber optic patch cord are with 50/125 or 62.5/125 fiber glass and is orange color.



- Multimode & Singlemode applications LC/SC/ST/E2000/DIN/MPO/FC/MTRJ/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.
- 900µm tight buffered fibre optic cable.



Specifications

* Patchcord Specification

Mechanical

Length: 1.5m ± 10mm

Other lengths available to order

Split Length (Duplex): 150mm ± 5mm

Product Packaging

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

Fire Performance

LSZH for Internal/External Applications

Flame Resistance IEC 60332-1

MTRJ

Only available in MiniZip

* Connector Specification

Optical Performance (Singlemode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB ;

Return loss: UPC > 50dB, APC >60Db

(Multimode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB

Optical Performance (MT-RJ): Insertion loss: Max. 0.5 dB

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

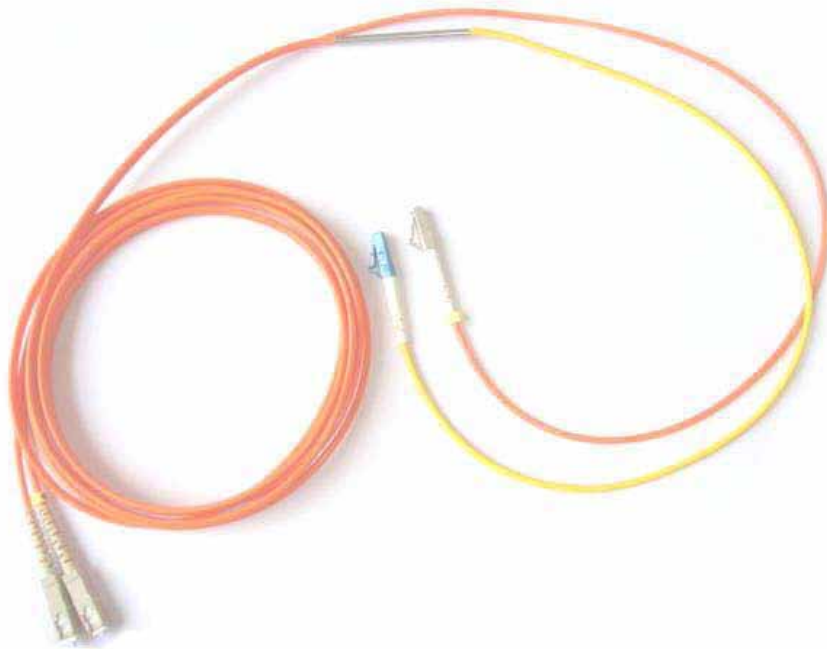
Ordering Information

Connector Type	Connector Type	Type	Count	Cable OD	Cable Material	Color	Length
1000							
1 : LC/PC	1 : LC/PC	S : SM	S : Simplex	09 : 0.9mm	P : PVC	Y : Yellow	001 : 1M
2 : SC/PC	2 : SC/PC	6 : 62.5/125	D : Duplex	18 : 1.8mm	L : LSZH	O : Orange	002 : 2M
3 : ST/PC	3 : ST/PC	5 : 50/125		20 : 2.0mm		G : Green	002A : 2.5M
4 : E2000 /PC	4 : E2000 /PC	B : OM3		24 : 2.4mm		R : Red	...
5 : DIN/PC	5 : DIN/PC			30 : 3.0mm		W : White	
6 : MPO	6 : MPO					B : Black	
7 : FC/PC	7 : FC/PC					L : Blue	
8 : MTRJ	8 : MTRJ					P : Purple	
9 : MU	9 : MU						
A : LC/APC	A : LC/APC						
B : SC/APC	B : SC/APC						
C : E2000/APC	C : E2000/APC						
D : FC/APC	D : FC/APC						
L : LX.5/PC	L : LX.5/PC						



Mode Conditioning Cable

Mode conditioning fiber optic patch cord are used typically when you want to run Gigabit Ethernet (LX) over some multi mode fiber optic plant. Brotechs mode conditioning fiber optic cable are compliant with IEEE 802.3Z standard.



Features

Mode Conditioning Cables are designed to be used with Gigabit Ethernet and other applications where both single mode and multimode interconnects must be maintained. Brotechs manufactures Mode Conditioning Cables using premium quality fiber and connectors. These cable assemblies are primarily used in Gigabit Ethernet (1000Base-LX) applications to prevent DMD (Differential Mode Delay).

Specifications for Mode Conditioning patch cords	
Connector types available	FC,SC,ST,LC,MU
Transmit insertion loss(dB)	Typical 0.35dB
Receive insertion loss(dB)	Typical 0.15dB
Return loss	≥ 55 dB
Temperature range	-40°C to +85°C



Specifications

* Specification

Mechanical

Length: 1.5m ± 10mm

Other lengths available to order

Product Packaging

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

* Connector Specification

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

Ordering Information

	SM Connector Type	MM Connector Type	Type	Count	Cable OD	Cable Material	Color	Length
1001	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	0 : None		S : SM	D : Duplex	18 : 1.8mm	P : PVC	S : SM/Yellow	001 : 1M
	1 : LC/PC	1 : LC/PC	6 : 62.5/125		24 : 2.4mm	L : LSZH	MM/Orange	002 : 2M
	2 : SC/PC	2 : SC/PC	5 : 50/125		30 : 3.0mm		X : Customer	002A : 2.5M
	3 : ST/PC	3 : ST/PC	B : OM3					...
	4 : E2000 /PC	4 : E2000 /PC						
	5 : DIN/PC	5 : DIN/PC						
	6 : MPO	6 : MPO						
	7 : FC/PC	7 : FC/PC						
	8 : MTRJ	8 : MTRJ						
	9 : MU	9 : MU						
	A : LC/APC	A : LC/APC						
	B : SC/APC	B : SC/APC						
	C : E2000/APC	C : E2000/APC						
	D : FC/APC	D : FC/APC						
	L : LX.5/PC	L : LX.5/PC						



Attenuated Patchcord

Brotechs 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.



Features

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

Applications

- Telecommunication Networks
- **CATV**
- **LAN and WAN**



Specifications

* Specification

Mechanical

Length: 1.5m ± 10mm

Other lengths available to order

Product Packaging

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

* Connector Specification

Optical Performance (Singlemode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB ;

Return loss: UPC > 50dB, APC >60Db

(Multimode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB

Optical Performance (MT-RJ): Insertion loss: Max. 0.5 dB

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

Ordering Information

Connector Type	Connector Type	Attenuator	Type	Count	Cable OD	Cable Material	Color	Length
1 : LC/PC	1 : LC/PC	01 : 1dB	S : SM	S : Simplex	09 : 0.9mm	P : PVC	Y : Yellow	001 : 1M
2 : SC/PC	2 : SC/PC	02 : 2dB	6 : 62.5/125	D : Duplex	18 : 1.8mm	L : LSZH	O : Orange	002 : 2M
3 : ST/PC	3 : ST/PC	5 : 50/125		20 : 2.0mm		G : Green	002A : 2.5M
4 : E2000 /PC	4 : E2000 /PC	10 : 10dB	B : OM3		24 : 2.4mm		R : Red	...
5 : DIN/PC	5 : DIN/PC				30 : 3.0mm		W : White	
6 : MPO	6 : MPO						B : Black	
7 : FC/PC	7 : FC/PC						L : Blue	
8 : MTRJ	8 : MTRJ						P : Purple	
9 : MU	9 : MU							
A : LC/APC	A : LC/APC							
B : SC/APC	B : SC/APC							
C : E2000/APC	C : E2000/APC							
D : FC/APC	D : FC/APC							
L : LX.5/PC	L : LX.5/PC							



Bend Insensitive Patchcord

Brotechs range of patchcords has developed from standard multimode fibre to high performance single mode patchcords. We now offer patchcords that have a higher tolerance for bending so can withstand bend radius down to 7.5mm rather than the standard 30mm.

Singlemode Fibre

This low bend radius singlemode fibre is fully compatible with conventional singlemode fibre and is of ideal use in FTTx applications or networks that have limited space.



Minimum Bend Radius	15mm
Core diameter	8.6± 0.4µm
Cladding diameter	125± 0.5µm
Attenuation	
@ 1310nm	≤ 0.4 dBkm ⁻¹
@ 1550nm	≤ 0.25 dBkm ⁻¹
λ _{cc}	≤ 1260 nm
Chromatic dispersion @ 1550nm	18 ps/nm·km



Specifications

* Specification

Mechanical

Length: 1.5m ± 10mm

Other lengths available to order

Product Packaging

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

* Connector Specification

Optical Performance (Singlemode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB ;

Return loss: UPC > 50dB, APC >60Db

(Multimode) ~Insertion loss: Max. 0.3 dB, Typical 0.2 dB

Optical Performance (MT-RJ): Insertion loss: Max. 0.5 dB

Operating Temperature: -40°C to +85°C

Intermateability: Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

Ordering Information

Connector Type	Connector Type	e p y T	D	Cable O e l b ColorC Material	Lengthn u o C
0 : None		SXP : GGPR15XP High Bending	S : Simplex	09 : 0.9mm	P : PVC Y : Yellow O01 : 1M
1 : LC/PC	1 : LC/PC	Strength Fiber SM	D : Duplex	18 : 1.8mm	L : LSZH O : Orange O02 : 2M
2 : SC/PC	2 : SC/PC	S15 : GGPR15 High Bending		30 : 3.0mm	O02A : 2.5M
3 : ST/PC	3 : ST/PC	Strength Fiber SM			...
4 : E2000 /PC	4 : E2000 /PC	SR7 : GGPR7 High Bending			
5 : DIN/PC	5 : DIN/PC	Strength Fiber SM			
6 : MPO	6 : MPO	SMF : GGP SM Multi-Wave Fiber			
7 : FC/PC	7 : FC/PC	G50 : GGP 50/100/125/250µm			
8 : MTRJ	8 : MTRJ	Fiber			
9 : MU	9 : MU	G62 : GGP 62.5/100/125/250µm			
A : LC/APC	A : LC/APC	Fiber			
B : SC/APC	B : SC/APC				
C : E2000/APC	C : E2000/APC				
D : FC/APC	D : FC/APC				
L : LX.5/PC	L : LX.5/PC				

