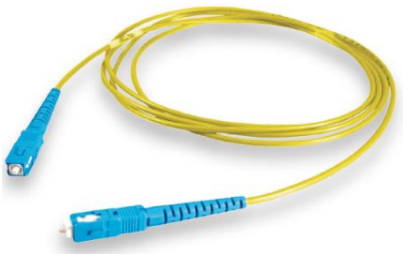
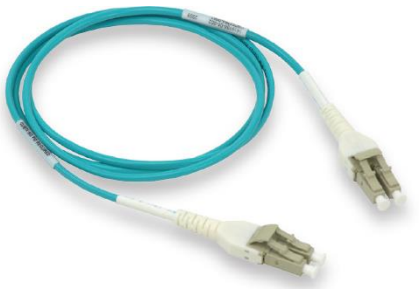
Fibre Optic Cable Assemblies



Product description

Fibre Optic Cables Assemblies (including patchleads, patchcords, jumpers & pigtails) are factory terminated for consistent quality and performance, and used in applications such as FTTx, central office and datacenters for connecting optical communication equipment or networks.



Features

- Manufactured to meet relevant quality, optical performance, intermateability and durability standards like Telcordia standard GR-326-CORE
- Individually packaged and labelled for protection, test data and traceability

Specifications (Typical)

Item	Content		
Connector types	SC, LC, FC, ST		
Optical performance	Multi mode @ 850 nm	Single mode (UPC) @ 1310 nm	Single mode (APC) @ 1310 nm
Insertion Loss	≤ 0.30 dB	≤ 0.30 dB	≤ 0.30 dB
Return Loss	-	≥ 55 dB	≥ 65 dB

Please contact us directly for any additional or higher specifications not listed here.

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Fibre Optic Cable Assemblies

Connector Options

	SC Connector	ST Connector	FC Connector
SM UPC			
SM APC			
MM OM1			
MM OM3/4/5			

	LC Connector		LC Duplex Connector
SM UPC		SM UPC	
SM APC		SM UPC 3 mm Uniboot	
MM OM1		MM OM1	
MM OM3/4/5		MM OM3/4/5	

Please contact us directly for any additional specifications not listed.

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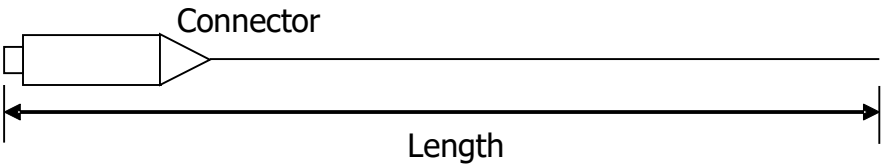
Optical Fibre Pigtails

ORDERING INFORMATION

Optical Fibre Pigtails

Please contact us with your requirements directly.
Below is a guide to help you specify optical fibre pigtails:



Specification	Options							
Connector	SC		LC		ST		FC	
Polish Type	UPC	APC	UPC	APC	UPC	–	UPC	APC
Length	In metres (m)							
Fibre grade	SM		OM1		OM2		OM3	OM4
Cable type	250 µm	900 µm	2 mm	3 mm	12F Ribbon	12F 3 mm cord		
Other	Any other requirements not listed, for example: • Low Loss connectors (example < 0.15 dB) • Duplex LC boot options • Nonstandard cable sizes or materials (example LSZH) • Specific optical fibres and grades							

Additional specifications for 900 µm tight buffered fibre only:

Specification	Options				
Pack Quantity	1	4	6	8	12
Colour	Single Colour	Colour coded (Refer to TIA-598C Colour Code Specification)			

TIA-598C Colour Code Specification

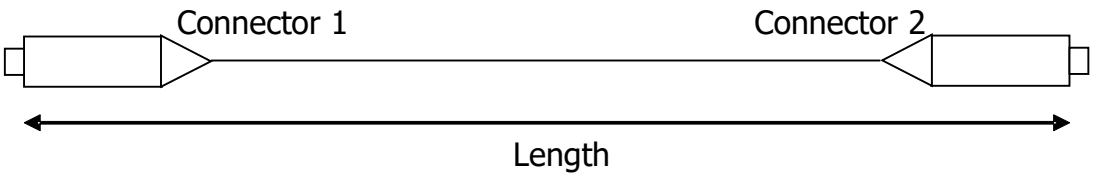
Fibre ID#	Colour	Fibre ID#	Colour	Fibre ID#	Colour
1	BLUE	5	SLATE	9	YELLOW
2	ORANGE	6	WHITE	10	VIOLET
3	GREEN	7	RED	11	ROSE
4	BROWN	8	BLACK	12	AQUA

Optical Fibre Patch Cords

ORDERING INFORMATION

Optical Fibre Cable Assemblies (for 1 to 2 fibre cables)

Please contact us with your requirements directly.
Below is a guide to help you specify Simplex (1F) and Duplex (2F) patch cords:



Specification	Options											
Construction	Simplex								Duplex			
Cord Jacket Size	250 µm		900 µm		1.6 mm cord		2 mm cord		3 mm cord		2 mm zipcord	3mm zipcord
Connector 1 / 2	SC		LC		ST		FC		DSC		DLC	
Polish type	UPC	APC	UPC	APC	UPC	–	UPC	APC	UPC	APC	UPC	APC
Length	In metres (m)											
Fibre grade	SM		OM1		OM2		OM3		OM4			
Cable Option	PVC (Standard)				Low Smoke Zero Halogen (LSZH)				Plenum Rated			
Other	Any other requirements not listed, for example: • Low Loss connectors (example < 0.15 dB) • Duplex LC boot options • Nonstandard cable sizes or materials • Specific optical fibres and grades											

MPO Cable Assemblies

Product description

MPO cable assemblies provide high-density optical fibre connections, in applications such as FTTx, Central Offices & Datacenters. Where appropriate, breakout assemblies may also be specified for compatibility with older or less dense fibre architecture.

Features

- Manufactured to meet relevant quality, optical performance, intermateability and durability standards like Telcordia standard GR-326/GR-1435
- Individually packaged and labelled for protection, test data and traceability
- 12 to 144 fibre cables

MPO Connector Specification

Item	Content		
Connector types	12F MPO, 24F MPO		
Optical performance	Multi mode	12F Single mode (APC)	24F Single mode (APC)
Insertion Loss (Low-loss type)	≤ 0.30 dB	≤ 0.25 dB	≤ 0.35 dB
Return Loss	-	≥ 55 dB	≥ 55 dB

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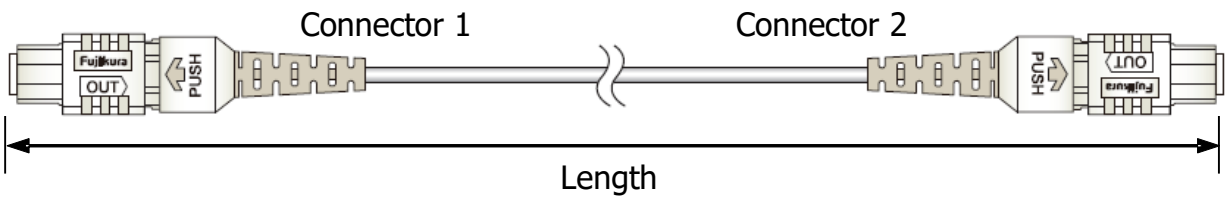
MPO Patch Cords & Pigtails

ORDERING INFORMATION

MPO Patch Cords & Pigtails



Please contact us with your requirements directly.
Below is a guide to help you specify MPO Patch Cords:

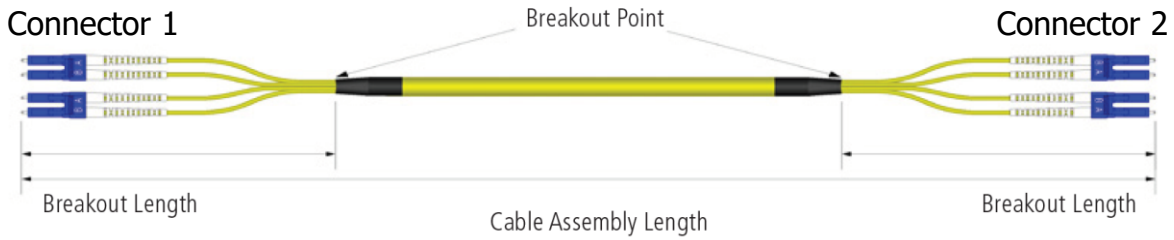
Specification	Options				
Fibre type	Single mode fibre type		Multi mode fibre type		
Connector 1 & 2*	12F MPO	24F MPO	12F MPO	24F MPO	
Polish Type	APC		UPC		
Length	In metres (m)				
Pins	Male (with pins)		Female (no pins)		
Coupling Colour	Standard		Custom		
Fibre grade	SM	OM1	OM2	OM3	OM4
Cable type	12F Ribbon		12F 3 mm Cordage		
Cable grade	Plenum (Standard)	PVC	Riser	Low Smoke Zero Halogen (LSZH)	
Polarity	Straight-through		Crossover		
Other	Any other requirements not listed, for example: • Different polish / loss requirements • Cables with other fibre counts or jacket colours • Specific optical fibres and grades				

*For Pigtails, only 1 connector need to be specified.

Breakout Cable Assemblies

ORDERING INFORMATION

Breakout Cable Assemblies



Please contact us with your requirements directly.
Below is a guide to help you specify Breakout Cable Assemblies:

Specification	Options						
Connector 1 & 2	SC	DSC	LC	DLC	ST	FC	MPO
Polish Type	UPC				APC		
Other Connector Properties	Any other requirements not listed, for example: • Different polish / loss requirements • MPO: Male / Female						
Lengths	In metres (m): • Cable Assembly Length • Breakout Length 1 / Breakout length 2						
Oversleeving	For the breakouts on each side, fibers may be additionally protected between the breakout points to the connectors on each side • None • PVC Tubing • 2 / 3 mm Colour Tubing						
Fibre grade	SM	OM1	OM2	OM3	OM4		
Cable Fibre Count	4F	6F	8F	12F	24F		
Cable type	• Riser • Round Mini 3 mm • Etc						
Cable grade	Plenum (Standard)	PVC	Riser	Low Smoke Zero Halogen (LSZH)			
Polarity	Straight-through	Crossover	Pair Flipping				
Other	Any other requirements not listed, for example: • Cables with other fibre counts (example > 24F), grades or jacket colours • Specific optical fibres and grades • Cable Drum (for > 40 m assemblies)						

Please refer to Fibre Optic Cable Assemblies & MPO Cable Assemblies for specifications of the various connectors

Optical Fibre Adapters

Product description

Optical fibre adapters are used for mating various optical fibre connectors. All major connector interfaces are offered.

Features

- All colours supported
- Simplex & duplex versions
- Flanged & flangeless versions
- Typical materials:
  - ABS body
  - Ceramic C-sleeve inserts
  - Metallic clips

Optical Fibre Adapters

Please contact us with your requirements directly.
Below is a guide to help you specify Optical Fibre Adapters:

Specification	Options						
Adapter Type	SC		LC		ST	FC	MPO
	Simplex	Duplex	Simplex	Duplex	–	–	–
Colour (Typical)	Blue (UPC)	Green (APC)	Aqua (Multi mode)		Metallic	Metallic	Black
Flange	Flanged			Flangeless			
Clip	With clip			Without clip			
Other	Any other requirements not listed, for example: • Additional colours • Adapter materials • Custom fit or metal clip design • Hybrid types (SC to LC, etc)						

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