



- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Duplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450m
- Diameter over coupling ring 32.0mm
- Flex, Inline and Front Panel
- Secure, proven locking system
- 30° twist locking. Tamperproof lock prevents accidental un-mating
- All plastic body version; UL94-V0 rated, UV stable, halogen free Light-weight, self-extinguishing material suitable for long-term outdoor use.
- Sealing caps available to maintain IP68 rating
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

CIRCULAR FIBER CONNECTORS  
**6000 Series - Duplex LC Fiber Buccaneer**



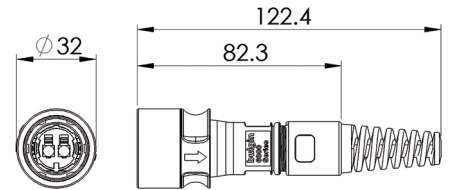
Duplex Flex to LC Fiber Cable



PXF6050XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options

\*Fiber assignment on page 6



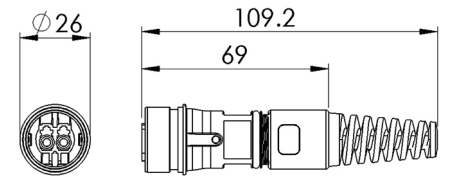
Duplex Inline to LC Fiber Cable



PXF6051XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options

\*Fiber assignment on page 6



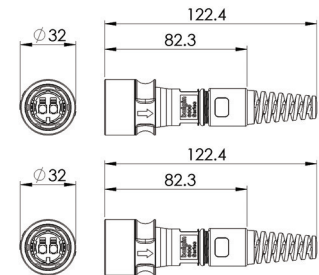
Duplex Flex to Flex Fiber Cable



PXF6054XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options

\*Fiber assignment on page 6



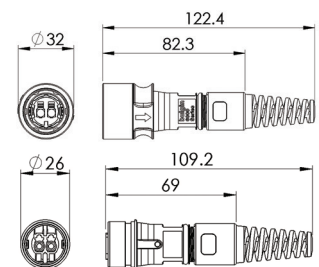
Dublex Flex to Inline Fiber Cable



PXF6055XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- OS1, OM1 or OM3 cable options

\*Fiber assignment on page 6



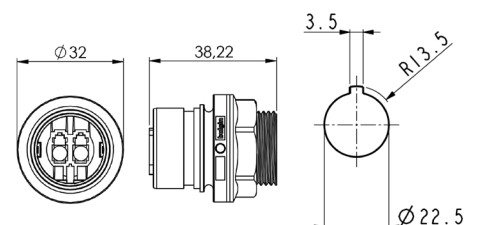
Front Panel Mounting Connector



PXF6052XXX

- LC fiber adapter
- Leaded with LC connector
- Socket variant mates with PXF6050 type connectors

\*Fiber assignment on page 6

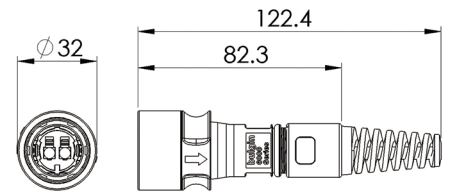


Flex Cable Connector



PXF6050X

- Mates with Inline or Panel mounting versions PXF6051, PXF6053
- 30° turn locking ring
- Supplied without LC Connectors

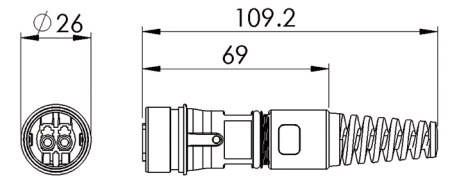


Inline Cable Connector



PXF6051X

- Mates with Flex Cable connector PXF6050
- For Inline connection
- Supplied without LC Connectors

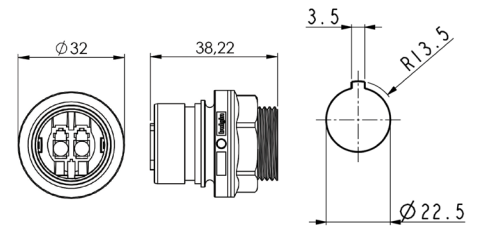


Front Panel Mounting Connector



PXF6052X

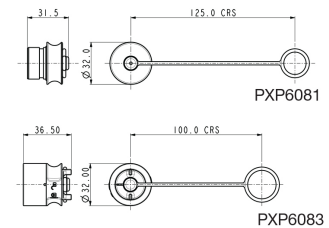
- Mates with Flex Cable connector PXF6050
- Rear Panel Mounting
- Single hole fixing
- Supplied without LC Connectors



Sealing Caps



- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 for cable connectors PXF6050.
- PXP6083 for front panel mount connectors PXF6052 & PXF6051, with 30° twist lock



**Part No.**

**Description**

PXP6081	Sealing Cap for Flex cable connectors (PXF6050)
PXP6083	Sealing Cap for front panel mounting connector (PXF6052, PXF6051)

**Cables & connectors**

**Mechanical**

Sealing :	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 1.0-1.1Nm (91lb.in) -25°C to +70°C EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Panel Mount Nut:	1.0-1.1Nm (91lb.in)
Operating temperature:	-25°C to +70°C
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

**Material:**

Body Mouldings:	Polyamide
Flammability Rating:	UL94v-0
UV Resistance:	To EN 500021:1999
Cable Outer Jacket:	Polyethylene for UV and Weather Resistance
O Rings:	Silicone
Panel Sealing O Ring:	Silicone

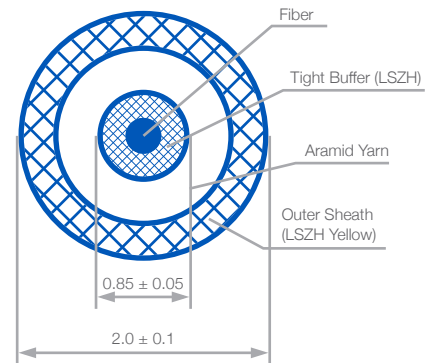
**Optical**

IEC 61753-1:	
Max Insertion Loss:	0.2db } single mode
AVG Insertion Loss:	0.1db } single mode

**RoHS** Compliant

**Fiber Specification - SECTION OSI**

Item	Detail	Specification		
Fiber type:	/	G.657A2 (OS1)		
Mode field diameter:	Wavelength Dimension	1310mm 8.6µm-9.5µm±0.4µm		
Cladding diameter:	Dimension	125.0µm±0.7µm		
Core concentricity error:		≤0.5µm		
Cladding non-circularity:		≤1%		
Coating diameter:	Dimension	245µm±10µm		
Coating-cladding concentricity error:		≤12.5µm		
Cut-off wavelength:	Radius(mm)	≤1260nm		
Uncabled fiber macrobending loss:	Number of turns Max. at 1550nm(dB) Max. at 1625nm(dB)	15 10 0.03	10 1 0.1	7.5 1 0.5
Min. proof stress:		0.1	0.2	1.0
Dynamic fatigue parameter:		0.69GPa		
Chromatic dispersion coefficient:	λ0min λ0max S0max	≥20 1300nm 1324nm 0.092ps/nm2×km		
Other parameters meet standard:	ITU-T G.657			



**Optical Cable Specification**

**Structure Parameter**

Tight buffer:	Material Outer diameter	Polyolefin (POE) 0.85mm±0.05mm
Strength member:	Material	Aramid yarn
Outer sheath:	Sheath material Sheath color Min. sheath thickness Dimension	Polyolefin (POE) Yellow(Pantone 136C) Chromatic aberration E: ≤4.0 0.3mm 2.0mm±0.1mm

**Transmission Performance**

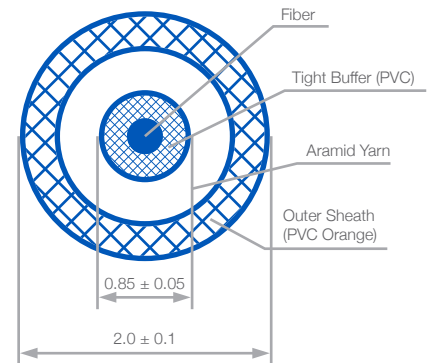
Attenuation coefficient:	Wavelength 1310nm~1625nm Maximum at 1383nm±3nm Wavelength 1550nm	≤0.4dB/km ≤0.4dB/km ≤0.3dB/km
Macrobending loss:	Radius(mm) Number of turns Max. at 1550nm(dB) Max. at 1625nm(dB)	15    10    7.5 10    1    1 0.03    0.1    0.5 0.1    0.2    1.0

**Other performances**

Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2, ITU-T G.657

**Fiber Specification - SECTION OMI**

Item	Detail	Specification
Fiber type	/	62.5/125(A1b) (OM1)
Core diameter	Dimension	62.5 $\mu$ m $\pm$ 3 $\mu$ m
Cladding diameter	Dimension	125.0 $\mu$ m $\pm$ 2 $\mu$ m
Core-cladding concentricity error		$\leq$ 3 $\mu$ m
Cladding non-circularity		$\leq$ 2%
Core non-circularity		$\leq$ 6%
Primary coating diameter (uncoloured)	Dimension	245 $\mu$ m $\pm$ 10 $\mu$ m
Primary coating-cladding		$\leq$ 12.5 $\mu$ m
Concentricity error	Radius(mm)	37.5
Uncabled fiber macrobending loss	Number of turns At wavelengths 850nm and 1300nm(dB)	100 0.5
Min. proof stress		0.69GPa
Dynamic fatigue parameter		$\geq$ 20
Minimum modal bandwidth- length Product for overfilled launch	Wavelength 850nm Wavelength 1300nm	200MHzkm 500MHzkm
Other parameters meet standard	IEC 60793-2-10	

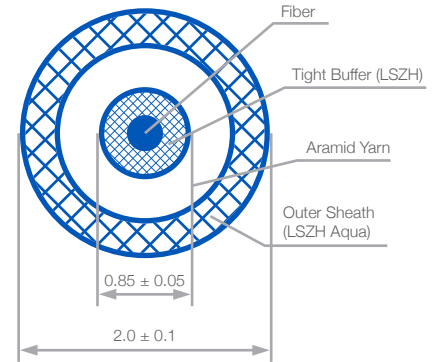


**Optical Cable Specification**

Item	Specification
<b>Structure Parameter</b>	
Tight buffer	Material: Polyolefin (POE) Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member	Material: Aramid yarn
Outer sheath	Sheath material: Polyolefin (POE) Sheath color: Orange(Pantone 164C) Chromatic aberration E: $\leq$ 4.0 Min. sheath thickness: 0.3mm Dimension: 2.0mm $\pm$ 0.1mm
<b>Transmission Performance</b>	
Attenuation coefficient	Wavelength 850m: $\leq$ 3.5dB/km Wavelength 1300nm: $\leq$ 1.5dB/km
<b>Other performances</b>	
Min. bending radius of work	30mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2

**Fiber Specification - SECTION OM3**

Item	Detail	Specification
Fiber type	/	50/125(OM3)
Core diameter	Dimension	50 $\mu$ m $\pm$ 2.5 $\mu$ m
Cladding diameter	Dimension	125.0 $\mu$ m $\pm$ 2 $\mu$ m
Core-cladding concentricity error		$\leq$ 3 $\mu$ m
Cladding non-circularity		$\leq$ 2%
Core non-circularity		$\leq$ 6%
Primary coating diameter (uncoloured)	Dimension	245 $\mu$ m $\pm$ 10 $\mu$ m
Primary coating-cladding concentricity error	Radius(mm)	15      7.5
Uncabled fiber macrobending loss	Number of turns	2      2
	Max. at 850nm(dB)	0.1    0.2
	Max. at 1300nm(dB)	0.3    0.5
Min. mode bandwidth	Overfilled launch bandwidth at 850nm	1500 MHz. km
	Overfilled launch bandwidth at 1300nm	500 MHz. km
	Effective laser launch bandwidth at 850nm	2000 MHz. km
Min. proof stress		0.69GPa
	Dynamic fatigue parameter	$\leq$ 20
Chromatic dispersion coefficient	$\lambda$ 0min	1295nm
	$\lambda$ 0max	1340nm
	S0max(from1295nm $\leq\lambda$ 0 $\leq$ 1310nm)	0.105ps/nm <sup>2</sup> ×km
	S0max(from1310nm $\leq\lambda$ 0 $\leq$ 1340nm)	0.000375(1590- $\lambda$ ) ps/nm <sup>2</sup> ×km
Other parameters meet standard	IEC 60793-2-10	



**Optical Cable Specification**

Item	Specification
<b>Structure Parameter</b>	
Tight buffer	Material: Polyolefin (POE)
	Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member	Material: Aramid yarn
Outer sheath	Sheath material: Polyolefin (POE)
	Sheath color: Aqua(Pantone 3248C) Chromatic aberration E: $\leq$ 4.0
	Min. sheath thickness: 0.3mm
	Dimension: 2.0mm $\pm$ 0.1mm
<b>Transmission Performance</b>	
Attenuation coefficient	Wavelength 850m: $\leq$ 3.5dB/km
	Wavelength 1300nm: $\leq$ 1.5dB/km
Macrobending loss	Radius (mm): 15      7.5
	Number of turns: 2      2
	Max. at 850 nm (dB): 0.1    0.2
	Max. at 1300 nm (dB): 0.3    0.5
<b>Other performances</b>	
Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2

<b>PXF605 X</b>	<b>X</b>	<b>XX</b>
<p><b>Body Styles</b></p> <p>PXF6050                  PXF6051                  PXF6052                  PXF6054                  PXF6055</p>	<p><b>For Cable Type</b></p> <p>A = OM3 (Multimode)                  B = OM1 (Multimode)                  C = OS1 (Single Mode)</p>	<p><b>Cable Length</b></p> <p>Blank = No cable                  AA = 1 (1m on chassis version only PXF6052)                  AA = 5                  AB = 10                  AC = 15                  AD = 25                  AE = 50                  AF = 100                  AG = 150                  AH = 200                  AJ = 300                  AK = 450</p>

**Examples:**

- PXF6050A = Flex connector, for OM3 (Multimode) no cable supplied
- PXF6050AAA = Flex connector, OM3 multimode cable, 5 metre length to LC type connector
- PXF6052BAA = Panel mount connector, OM1 multi mode cable, 1 metre length to LC type connector

**Fiber Assignment:**

