6000 Series - Duplex LC Fiber Buccaneer

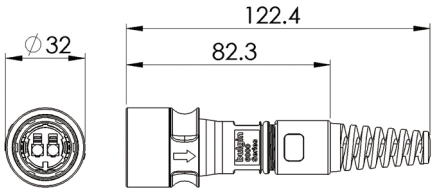
- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Duplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450M
- Diameter over coupling ring 32.0mm
- Flex, Flex In-Line and Rear Panel
- Secure, proven locking 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

6000 Series - Duplex LC Fiber Buccaneer

PXF6050XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

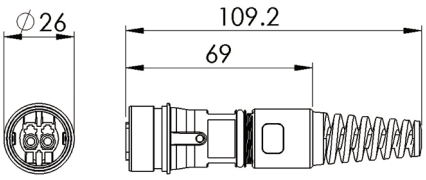
*Fiber assignment on page 6



PXF6051XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

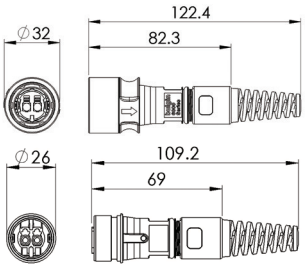
*Fiber assignment on page 6



PXF6054XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

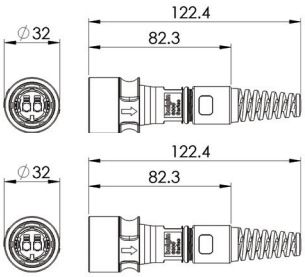
*Fiber assignment on page 6



PXF6055XXX

- Patchcords with IP68 connectors
- Available in 5 - 450m lengths
- Supplied with LC fiber plug
- 0S1, 0M1 or 0M3 cable options

*Fiber assignment on page 6

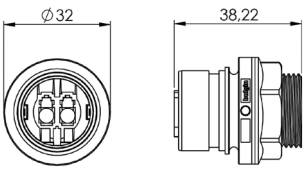


Rear Panel Mounting Connector

PXF6052XXX

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

*Fiber assignment on page 6

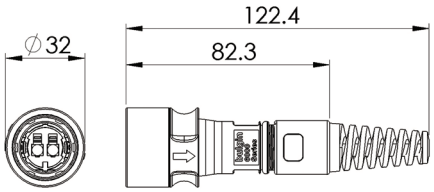


6000 Series - Duplex LC Fiber Buccaneer

Flex Cable Connector

PXF6050X

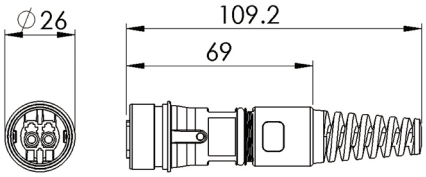
- Mates with Flex In-Line or Panel mounting versions PXF6051, PXF6053
- 30° turn locking ring
- Supplied without LC Connectors



In-Line Flex Cable Connector

PXF6051X

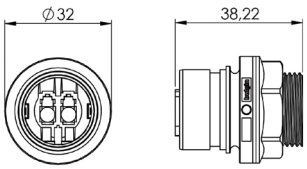
- Mates with Flex Cable connector PXF6050
- For In-Line connection
- Supplied without LC Connectors



Rear Panel Mounting Connector

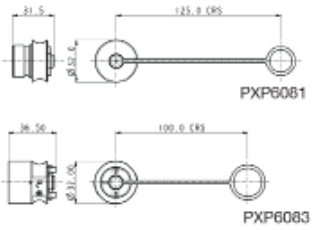
PXF6052X

- 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)

6000 Series - Duplex LC Fiber Buccaneer

Cables & connectors

Mechanical

Sealing	IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013
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

Optical

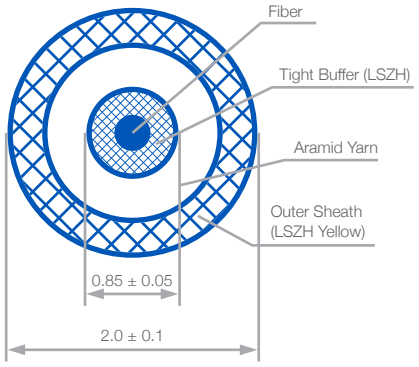
IEC 61753-1	
Max Insertion Loss	0.2db } single mode
AVG Insertion Loss	0.1db } single mode

Material:

Flex and panel types:	
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
RoHS	Compliant

Fiber Specification - SECTION OSI

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



Optical Cable Specification

Structure Parameter

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

Transmission Performance

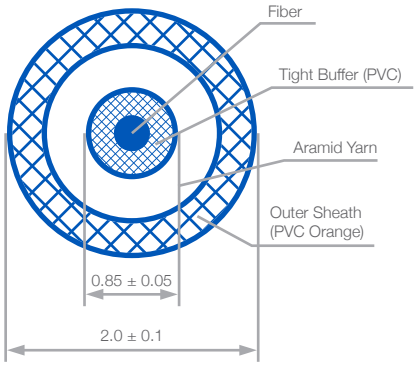
	Wavelength 1310nm~1625nm	≤0.4 dB/km		
Attenuation coefficient	Maximum at 1383 nm ±3 nm	≤0.4 dB/km		
	Wavelength 1550nm	≤0.3 dB/km		
Macrobending loss	Radius(mm)	15	10	7.5
	Number of turns	10	1	1
	Max. at 1550 nm(dB)	0.03	0.1	0.5
	Max. at 1625 nm (dB)	0.1	0.2	1.0

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	Normal value	62.5 µm
	Tolerance	±3 µm
Cladding diameter	Nominal	125.0µm
	Tolerance	±2 µm
Core-cladding concentricity error		≤3µm
Cladding non-circularity		≤2%
Core non-circularity		≤6%
Primary coating diameter (uncoloured)	Nominal	245µm
	Tolerance	±10µm
Primary coating-cladding concentricity error		≤12.5µm
Uncabled fiber macrobending loss	Radius(mm)	37.5
	Number of turns	100
	At wavelengths 850 nm and 1300nm (dB)	0.5
Min. proof stress		0.69 GPa
Dynamic fatigue parameter		≥20
Minimum modal bandwidth- length Product for overfilled launch	Wavelength 850 nm	200 MHzkm
	Wavelength 1300 nm	500 MHzkm
Other parameters meet standard	IEC 60793-2-10	

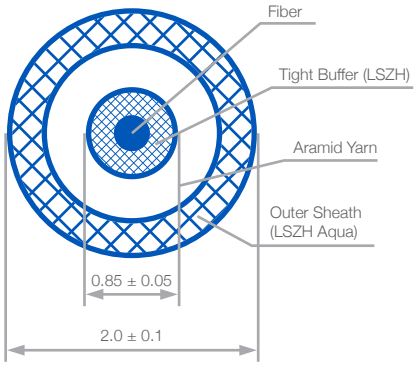


Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer	Material	Polyolefin (POE)
	Outer diameter	0.85mm±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Sheath material	Polyolefin (POE)
	Sheath color	Orange(Pantone 164C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient	Wavelength 850m	≤3.5 dB/km
	Wavelength 1300nm	≤1.5 dB/km
Other performances		
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	Normal value	50 µm
	Tolerance	±2.5 µm
Cladding diameter	Nominal	125.0µm
	Tolerance	±2 µm
Core-cladding concentricity error		≤3µm
Cladding non-circularity		≤2%
Core non-circularity		≤6%
Primary coating diameter (uncoloured)	Nominal	245µm
	Tolerance	±10µm
Primary coating-cladding concentricity error		≤12.5µm
Uncabled fiber 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
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		0.69 GPa
Dynamic fatigue parameter		≤20
Chromatic dispersion coefficient	λ0min	1295 nm
	λ0max	1340 nm
	S0max(from1295nm≤λ0≤1310nm)	0.105ps/nm^2×km
	S0max(from1310nm≤λ0≤1340nm)	0.000375(1590-λ_0) ps/nm^2×km
Other parameters meet standard	IEC 60793-2-10	



Optical Cable Specification

Item		Specification
Structure Parameter		
Tight buffer	Material	Polyolefin (POE)
	Outer diameter	0.85mm±0.05mm
Strength member	Material	Aramid yarn
Outer sheath	Sheath material	Polyolefin (POE)
	Sheath color	Aqua(Pantone 3248C) Chromatic aberration E: ≤4.0
	Min. sheath thickness	0.3mm
	Dimension	2.0mm±0.1mm
Transmission Performance		
Attenuation coefficient	Wavelength 850m	≤3.5 dB/km
	Wavelength 1300nm	≤1.5 dB/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
Other performances		
Min. bending radius of work		10mm
Other parameter meet standard		IEC60794-2-50, YD/T1258.2

PXF605 x	/ X	/ XX

Body Styles

PXF6050
PXF6051
PXF6052
PXF6054
PXF6055

For Cable Type

A = OM3 (Multimode)
B = OM1 (Multimode)
C = OS1 (Single Mode)

Contact Type

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

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: