6000 Series Duplex LC Fiber Buccaneer

The 6000 Series Fiber connectors are built to withstand the harshest of environments. Rated IP66, IP68 and IP69Kwhen mated, the connectors also feature a secure, yet easy to operate 30 degree locking mechanism. This tamperproof lock also prevents accidental un-mating. IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks Duplex LC-Type Interface, the connector also features EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1.

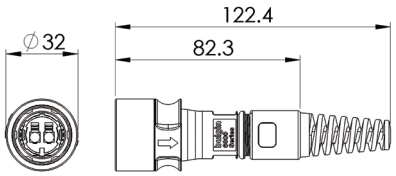
- Sealed to IP66 IP68 and IP69K when Mated
- IP68 Rating Tested at 1.054kg/sq cm (15lb/sq in) 10m Depth for 2 Weeks
- Duplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable Range from 5 to 450M
- Diameter Over Coupling Ring 32.0mm
- Flex, Flex In-Line & Rear Panel
- Secure, Proven Locking 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

Duplex LC Fiber

PXF6050XXX

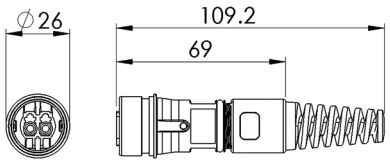
- Patchcords with IP68 Connectors
- Available in 5 - 450m Lengths
- Supplied with LC Fiber Plug
- 0S1, 0M1 or 0M3 Cable Options



Duplex LC Fiber

PXF6051XXX

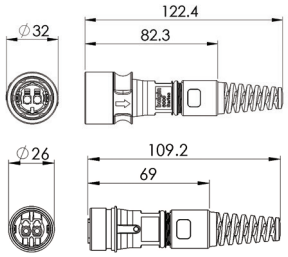
- Patchcords with IP68 Connectors
- Available in 5 - 450m Lengths
- Supplied with LC Fiber Plug
- 0S1, 0M1 or 0M3 Cable Options



Duplex LC Fiber

PXF6054XXX

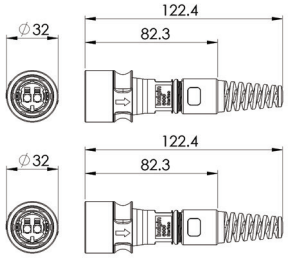
- Patchcords with IP68 Connectors
- Available in 5 - 450m Lengths
- Supplied with LC Fiber Plug
- 0S1, 0M1 or 0M3 Cable Options



Duplex LC Fiber

PXF6055XXX

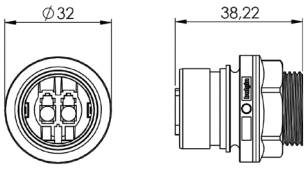
- Patchcords with IP68 Connectors
- Available in 5 - 450m Lengths
- Supplied with LC Fiber Plug
- 0S1, 0M1 or 0M3 Cable Options



Rear Panel Mounting Connector

PXF6052XXX

- LC Fiber Adapter
- Leaded with LC Connector
- Socket Variant Mates with PXF6050 Type Connectors

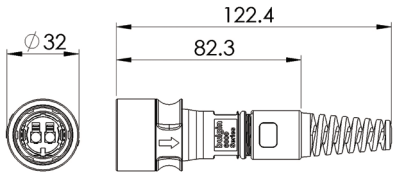


6000 Series Duplex LC Fiber Buccaneer

Flex Cable Connector

PXF6050X

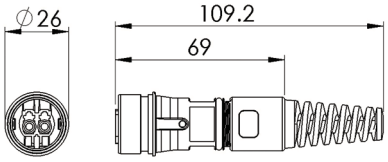
- Mates with Flex In-Line or Panel Mounting versions PXF6051, PXF6053
- 30° Turn Locking Ring
- Supplied without LC Connectors



In-Line Flex Cable Connector

PXF6051X

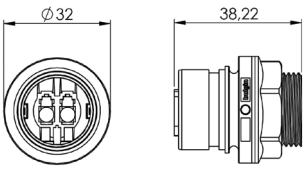
- Mates with Flex Cable Connector PXF6050
- For In-Line Connection
- Supplied without LC Connectors



Rear Panel Mounting Connector

PXF6052X

- Mates with Flex Cable Connector PXF6050
- Rear Panel Mounting
- Single Hole Fixing
- Supplied without LC Connectors

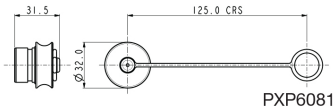


6000 Series Duplex LC Fiber Buccaneer

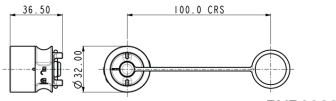
Sealing Caps

PXP6081
PXP6083

- Sealing Caps to Maintain IP Rating
- PXP6081 for Cable Connectors PXF6050
- PXP6083 for Front Panel Mount Connectors PXF6052 & PXF6051 with 30° Twist Lock



PXP6081



PXP6083

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

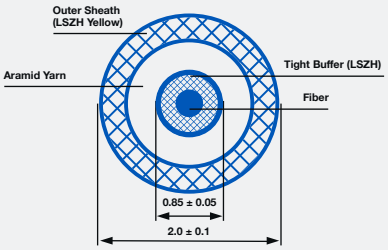
Material

Flex and panel types:	Polyamide
Body Mouldings:	UL94v-0
Flammability Rating:	To EN 500021:1999
UV Resistance:	
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		
Uncabled Fiber Macrobending Loss:	Radius(mm)	15	10	7.5
	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		
Chromatic Dispersion Coefficient:	λ0min	1300 nm		
	λ0max	1324 nm		
	S0max	0.092 ps/nm2 ×km		
Other Parameters Meet Standard:	ITU-T G.657			

Cable Construction:



6000 Series Duplex LC Fiber Buccaneer

Optical Cable 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	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		
	Maximum at 1383 nm ±3 nm	≤0.4 dB/km		
Attenuation Coefficient:	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

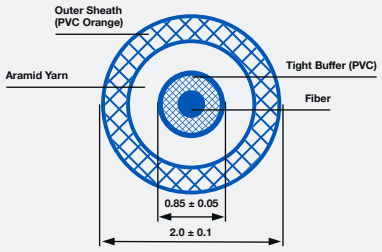
Min. Bending Radius of Work:	10mm
Other Parameter Meet Standard:	IEC60794-2-50, YD/T1258.2, ITU-T G.657

6000 Series Duplex LC Fiber Buccaneer

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 & 1300nm (dB)	0.5
Min. Proof Stress:		0.69 GPa
Dynamic Fatigue Parameter:		≥20
Minimum Modal Bandwidth- Length:	Wavelength 850 nm	200 MHzkm
Product for Overfilled Launch:	Wavelength 1300 nm	500 MHzkm
Other Parameters Meet Standard:	IEC 60793-2-10	

Cable Construction:



Optical Cable 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

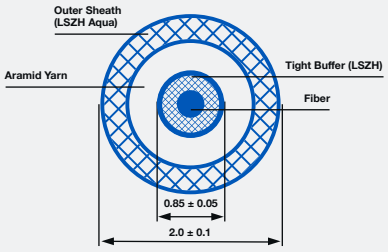
Min. Bending Radius of Work:	30mm
Other Parameter Meet Standard:	IEC60794-2-50, YD/T1258.2

6000 Series Duplex LC Fiber Buccaneer

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
Primary Coating-Cladding Concentricity Error:	Tolerance	±10µm
		≤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/nm2×km
	S0max (from1310nm≤λ0≤1340nm)	0.000375(1590-λ0) ps/nm2×km
Other Parameters Meet Standard:	IEC 60793-2-10	

Cable Construction:



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	Aqua (Pantone 3248C) Chromatic Sberration 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

6000 Series Duplex LC Fiber Buccaneer

PXF605 x	/	X	/	XX

Body Styles

PXF6050

PXF6051

PXF6052

PXF6054

PXF6055

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

Example:

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: