

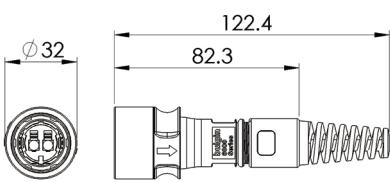
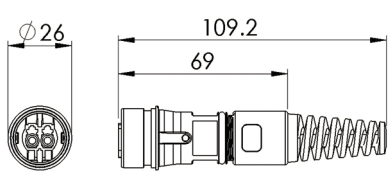
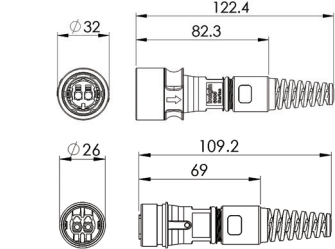
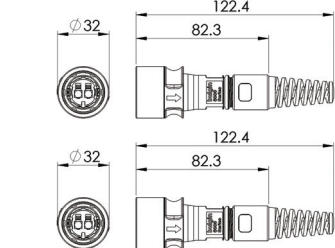
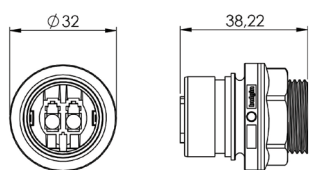
6000 Series Duplex LC Fiber Buccaneer

The 6000 Series Fiber connectors are built to withstand the harshest of environments. Rated IP66, IP68 and IP69K when 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	

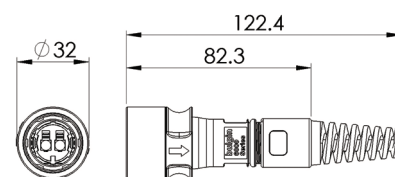
6000 Series Duplex LC Fiber Buccaneer

Flex Cable Connector



PXF6050X

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

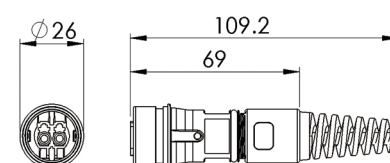


In-Line Flex Cable Connector



PXF6051X

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

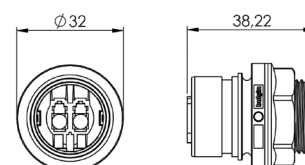


Rear Panel Mounting Connector



PXF6052X

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



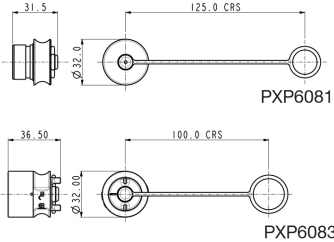
6000 Series Duplex LC Fiber Buccaneer

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:

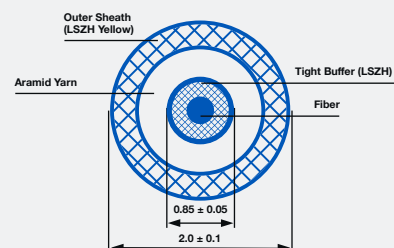
Fiber Type:	/
Mode Field Diameter:	Wavelength Range of Nominal Values Tolerance Nominal Tolerance
Cladding Diameter:	
Core Concentricity Error:	
Cladding Non-Circularity:	
Coating Diameter:	Nominal Tolerance
Coating-Cladding Concentricity Error:	
Cut-Off Wavelength:	
Uncabled Fiber Macrobending Loss:	Radius(mm) Number of Turns Max. at 1550nm(dB) Max. at 1625 nm (dB)
Min. Proof Stress:	
Dynamic Fatigue Parameter:	
Chromatic Dispersion Coefficient:	λ_{0min} λ_{0max} S0max
Other Parameters Meet Standard:	ITU-T G.657

Detail:

Specification:

G.657A2 (OS1)		
1310mm		
8.6 μ m -9.5 μ m		
$\pm 0.4 \mu$ m		
125.0 μ m		
$\pm 0.7 \mu$ m		
$\leq 0.5 \mu$ m		
$\leq 1\%$		
245 μ m		
$\pm 10 \mu$ m		
$\leq 12.5 \mu$ m		
$\leq 1260 \text{ nm}$		
15	10	7.5
10	1	1
0.03	0.1	0.5
0.1	0.2	1.0
0.69 GPa		
≥ 20		
1300 nm		
1324 nm		
0.092 ps/nm ² xkm		

Cable Construction:





6000 Series Duplex LC Fiber Buccaneer

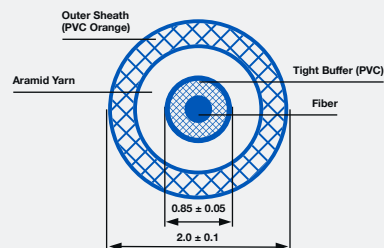
Optical Cable Specification:				
<u>Structure Parameter</u>				
Tight Buffer:	Material	Polyolefin (POE)		
	Outer Diameter	0.85mm±0.05mm		
Strength Member:	Material	Aramid Yarn		
	Sheath Material	Polyolefin (POE)		
Outer Sheath:	Sheath Color	Yellow (Pantone 136C) Chromatic Aberration E: ≤4.0		
	Min. Sheath Thickness	0.3mm		
	Dimension	2.0mm±0.1mm		
<u>Transmission Performance</u>				
Attenuation Coefficient:	Wavelength 1310nm~1625nm	≤0.4 dB/km		
	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
<u>Other Performances</u>				
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	$\pm 3 \mu\text{m}$
Cladding Diameter:	Nominal	125.0 μm
	Tolerance	$\pm 2 \mu\text{m}$
Core-Cladding Concentricity Error:		$\leq 3 \mu\text{m}$
Cladding Non-Circularity:		$\leq 2\%$
Core Non-Circularity:		$\leq 6\%$
Primary Coating Diameter (Uncoloured):	Nominal	245 μm
	Tolerance	$\pm 10 \mu\text{m}$
Primary Coating-Cladding Concentricity Error:		$\leq 12.5 \mu\text{m}$
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 $\pm$ 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 $\pm$ 0.1mm

Transmission Performance

Attenuation Coefficient:	Wavelength 850m	≤ 3.5 dB/km
	Wavelength 1300nm	≤ 1.5 dB/km

Other Performances

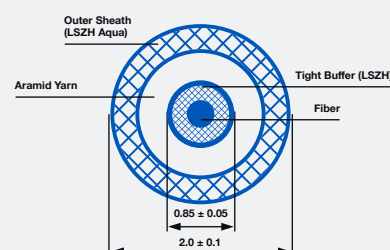
Min. Bending Radius of Work:	30mm
Other Parameter Meet Standard:	IEC60794-2-50, YD/T1258.2

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	$\pm 2.5 \mu\text{m}$
Cladding Diameter:	Nominal	125.0 μm
	Tolerance	$\pm 2 \mu\text{m}$
Core-Cladding Concentricity Error:		$\leq 3 \mu\text{m}$
Cladding Non-Circularity:		$\leq 2\%$
Core Non-Circularity:		$\leq 6\%$
Primary Coating Diameter (Uncoloured):	Nominal	245 μm
Primary Coating-Cladding	Tolerance	$\pm 10 \mu\text{m}$
Concentricity Error:		$\leq 12.5 \mu\text{m}$
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
	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. Mode Bandwidth:		0.69 GPa
Min. Proof Stress:		≤ 20
Dynamic Fatigue Parameter:	$\lambda 0_{\text{min}}$	1295 nm
	$\lambda 0_{\text{max}}$	1340 nm
Chromatic Dispersion Coefficient:	S0max (from 1295nm $\leq \lambda 0 \leq$ 1310nm)	0.105 ps/nm ² ×km
	S0max (from 1310nm $\leq \lambda 0 \leq$ 1340nm)	0.000375 (1590- $\lambda 0$) ps/nm ² ×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 $\pm$ 0.05mm
Strength Member:	Material	Aramid Yarn
	Sheath Material	Polyolefin (POE)
Outer Sheath:	Sheath Color	Aqua (Pantone 3248C) Chromatic Sberation E: ≤ 4.0
	Min. Sheath Thickness	0.3mm
	Dimension	2.0mm $\pm$ 0.1mm

Transmission Performance

Attenuation Coefficient:	Wavelength 850m	$\leq 3.5 \text{ dB/km}$
	Wavelength 1300nm	$\leq 1.5 \text{ dB/km}$
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		Cable Type		Contact Type
PXF6050		A = OM3 (Multimode)		Blank = No cable
PXF6051		B = OM1 (Multimode)		AA = 1 (1M on Chassis Version Only PXF6052)
PXF6052		C = OS1 (Single Mode)		AA = 5
PXF6054				AB = 10
PXF6055				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:

P1

B

A

A

B

P2