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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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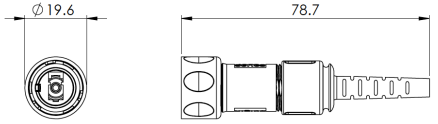

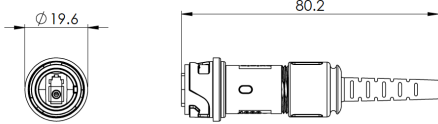

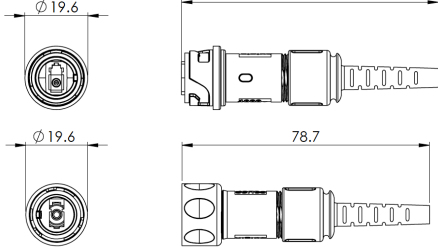

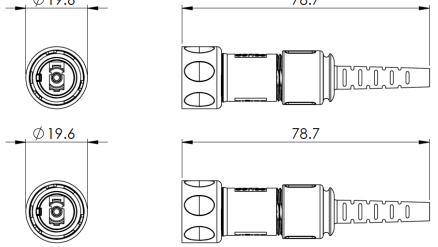

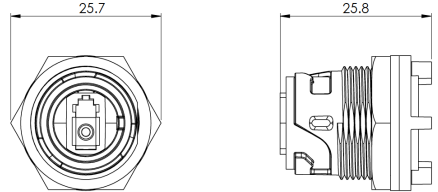
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- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- Simplex LC-Type Interface
- Cabled Versions: 0S1, 0M1, 0M3
- Cable range from 5 to 450M
- Diameter over coupling ring 19.7mm
- Flex, Flex In-Line and Rear Panel
- Colour coded O-rings & washers for easy identification purposes
- Secure, proven locking system
- Flame Retardant moulding material - Polyamide UL94-V0
- Tamper proof construction
- Sealing caps available to maintain IP68 rating
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

 <p>PXF4050XXX</p>	<ul style="list-style-type: none"> <li>○ Patchcords with IP68 connectors</li> <li>○ Available in 5 - 450m lengths</li> <li>○ Supplied with LC fiber plug</li> <li>○ OS1, OM1 or OM3 cable options</li> <li>○ Termination options</li> </ul>	 <p>Technical drawing showing a circular connector with a diameter of <math>\varnothing 19.6</math> and a length of 78.7.</p>
 <p>PXF4051XXX</p>	<ul style="list-style-type: none"> <li>○ Patchcords with IP68 connectors</li> <li>○ Available in 5 - 450m lengths</li> <li>○ Supplied with LC fiber plug</li> <li>○ OS1, OM1 or OM3 cable options</li> <li>○ Termination options</li> </ul>	 <p>Technical drawing showing a circular connector with a diameter of <math>\varnothing 19.6</math> and a length of 80.2.</p>
 <p>PXF4054XXX</p>	<ul style="list-style-type: none"> <li>○ Patchcords with IP68 connectors</li> <li>○ Available in 5 - 450m lengths</li> <li>○ Supplied with LC fiber plug</li> <li>○ OS1, OM1 or OM3 cable options</li> <li>○ Termination options</li> </ul>	 <p>Technical drawing showing two circular connectors, both with a diameter of <math>\varnothing 19.6</math>. The top one has a length of 80.2, and the bottom one has a length of 78.7.</p>
 <p>PXF4055XXX</p>	<ul style="list-style-type: none"> <li>○ Patchcords with IP68 connectors</li> <li>○ Available in 5 - 450m lengths</li> <li>○ Supplied with LC fiber plug</li> <li>○ OS1, OM1 or OM3 cable options</li> <li>○ Termination options</li> </ul>	 <p>Technical drawing showing two circular connectors, both with a diameter of <math>\varnothing 19.6</math> and a length of 78.7.</p>
<p>Rear Panel Mounting Connector</p>  <p>PXF4053XXX</p>	<ul style="list-style-type: none"> <li>○ LC fiber adapter</li> <li>○ Leaded with LC connector</li> <li>○ Socket variant mates with PXF4050 type cables</li> </ul>	 <p>Technical drawing showing a hexagonal rear panel mounting connector with a width of 25.7 and a depth of 25.8.</p>

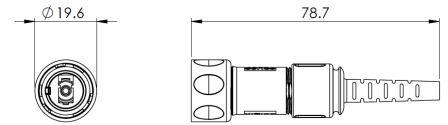
Part no.	Description
PXF4053	IP-Sealed LC Type, Rear Panel Mounted, LC Connector at Rear.

Flex Cable Connector



PXF4050

- Mates with Flex In-Line or Panel mounting versions PXF4051, PXF4053
- 30° turn locking ring
- Supplied without LC Connector

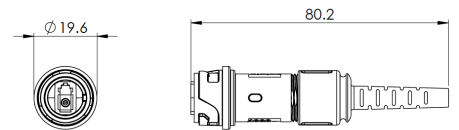


In-Line Flex Cable Connector



PXF4051

- Mates with Flex Cable connector PXF4050
- For In-Line connection
- Supplied without LC Connector

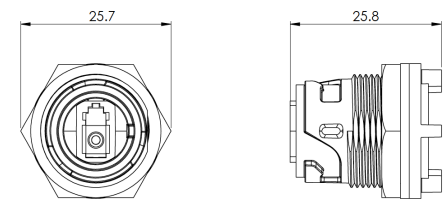


Rear Panel Mounting Connector



PXF4053

- Mates with Flex Cable connector PXF4050
- Rear Panel Mounting
- Single hole fixing
- Supplied without LC Connector



Accessories



- Sealing caps to maintain IP rating when connectors are not in use

Part no.	Description
PXP4081	Sealing cap for use with PXF4050's
PXP4082	Sealing cap for use with PXF4051
PXP4083	Sealing cap for use with PXF4053's

O-ring & washer pack



Part no.	Description
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

## 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)
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:

Flex and panel types:	Polyamide
Body Mouldings:	UL94v-0
Flammability Rating:	To EN 500021:1999
UV Resistance:	

### Optical

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

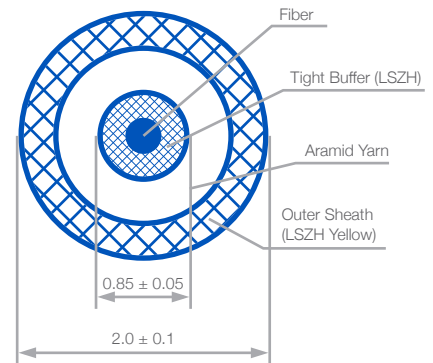
O Rings: Silicone

Panel Sealing O Ring: Silicone

**RoHS** Compliant

## Fiber Specification - SECTION OSI

Item	Detail	Specification		
Fiber type	/	G.657A2 (OS1)		
	Wavelength	1310nm		
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			



## Optical Cable Specification

### Structure Parameter

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

### Transmission Performance

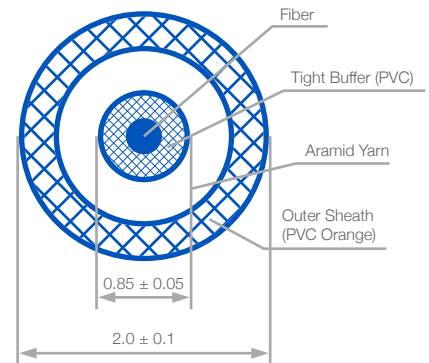
Attenuation coefficient	Wavelength 1310nm~1625nm	≤0.4 dB/km		
	Maximum at 1383 nm ±3 nm	≤0.4 dB/km		
	Wavelength 1550nm	≤0.3 dB/km		
Macrobending loss	Radius(mm)	15	10	7.5
	Number of turns	10	1	1
	Max. at 1550 nm(dB)	0.03	0.1	0.5
	Max. at 1625 nm (dB)	0.1	0.2	1.0

### 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**

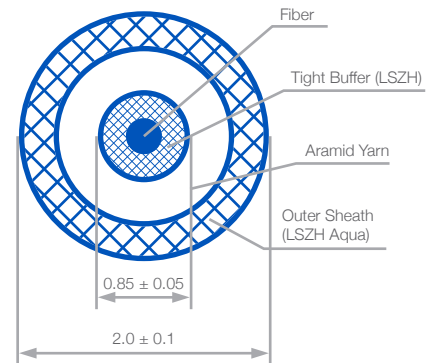
Item	Detail	Specification
Fiber type	/	62.5/125(A1b) (OM1)
Core diameter	Normal value	62.5 $\mu\text{m}$
	Tolerance	$\pm 3 \mu\text{m}$
Cladding diameter	Nominal	125.0 $\mu\text{m}$
	Tolerance	$\pm 2 \mu\text{m}$
Core-cladding concentricity error		$\leq 3 \mu\text{m}$
Cladding non-circularity		$\leq 2\%$
Core non-circularity		$\leq 6\%$
Primary coating diameter (uncoloured)	Nominal	245 $\mu\text{m}$
	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 and 1300nm (dB)	0.5
Min. proof stress		0.69 GPa
Dynamic fatigue parameter		$\geq 20$
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
<b>Structure Parameter</b>	
Tight buffer	Material: PVC Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member	Material: Aramid yarn
Outer sheath	Sheath material: PVC 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: $\leq 3.5$ dB/km Wavelength 1300nm: $\leq 1.5$ dB/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	Normal value	50 $\mu\text{m}$
	Tolerance	$\pm 2.5 \mu\text{m}$
Cladding diameter	Nominal	125.0 $\mu\text{m}$
	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 $\mu\text{m}$
	Tolerance	$\pm 10 \mu\text{m}$
Primary coating-cladding 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
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	$\leq 20$
Chromatic dispersion coefficient	$\lambda 0_{\text{min}}$	1295 nm
	$\lambda 0_{\text{max}}$	1340 nm
Other parameters meet standard	$S 0_{\text{max}}(\text{from } 1295\text{nm} \leq \lambda 0 \leq 1310\text{nm})$	0.105 ps/nm <sup>2</sup> × km
	$S 0_{\text{max}}(\text{from } 1310\text{nm} \leq \lambda 0 \leq 1340\text{nm})$	0.000375(1590- $\lambda_0$ ) ps/nm <sup>2</sup> × km

**Optical Cable Specification**

Item	Specification
<b>Structure Parameter</b>	
Tight buffer	Material: LSZH Outer diameter: 0.85mm $\pm$ 0.05mm
Strength member	Material: Aramid yarn
Outer sheath	Sheath material: LSZH
	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: $\leq 3.5$ dB/km
	Wavelength 1300nm: $\leq 1.5$ 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
<b>Other performances</b>	
Min. bending radius of work	10mm
Other parameter meet standard	IEC60794-2-50, YD/T1258.2



<b>PXF405 xx</b>	<b>X</b>	<b>XX</b>
<p><b>Body Styles</b></p> <p>PXF4050 PXF4051 PXF4053 PXF4054 PXF4055</p>	<p><b>Cable Type</b></p> <p><b>Blank</b> = No cable  <b>A</b> = OS1 (Singlemode)  <b>B</b> = OM1 (Multimode)  <b>C</b> = OM3 (Multimode)</p>	<p><b>Contact Type</b></p> <p><b>Blank</b> = No cable  <b>AA</b> = 1 (1M on chassis version only PXF4053)  <b>AA</b> = 5  <b>AB</b> = 10  <b>AC</b> = 25  <b>AD</b> = 50  <b>AE</b> = 100  <b>AF</b> = 150  <b>AG</b> = 200  <b>AH</b> = 300  <b>AJ</b> = 450</p>

**Examples:**

**PXF4050** = Flex connector, no cable

**PXF4050AAA** = Flex connector, OS1 single mode cable, 5 metre length to LC type connector

**PXF4053BAA** = Panel mount connector, OM1 multi mode cable, 1 metre length to LC type connector