

## LC/DLC/LCA/LCD/LCE Series Optical Connector & Adapter

### Product brief introduction

- Small size (50% of SC), light weight, high density installation
- Standard plastic body, good interchangeability
- Push-pull RJ-45 mechanism for quick connection and remove
- $\phi 1.25$  ceramic ferrule, PC, UPC polishing
- Simplex /Double connector and adapter
- Available to OFNR cable or LSZH cable
- Cable OD.:  $\phi 0.9$ ,  $\phi 2$  and  $\phi 3$
- According standard : YD/T1271.1, IEC61754-20

### Applications

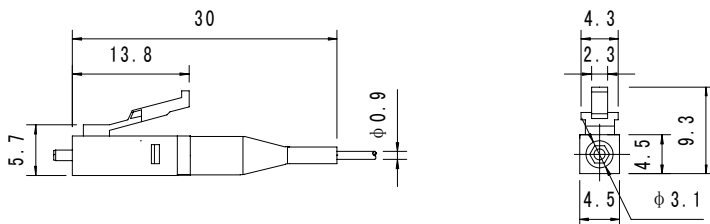
- Optical fiber communication networks
- Fiber To The Home(FTTH), Fiber To The Desk(FTTH)
- New synchronous equipment and user line terminal
- DWDM system
- ODF frame

### Performances

Parameters	plug			Adapter
	SM		MM	
	PC	UPC	PC	
Insertion Loss (dB)	$\geq 45$	$\geq 50$	$\geq 35$	/
Return Loss (dB)	$\leq 0.2$ (typical), $\leq 0.3$ (Max.)			$\leq 0.1$ (typical)
Repeatability (dB)	$\leq 0.1$			/
Durability (cycles)	$\geq 500$			$\geq 500$
Operating Temp. ( $^{\circ}\text{C}$ )	$-40 \sim +80$			$-40 \sim +80$
Tensile strength (N)	$\geq 70$ ( $\phi 2$ & $\phi 3$ ) . Not required for $\phi 0.9$ product.			/

### Outline dimensions

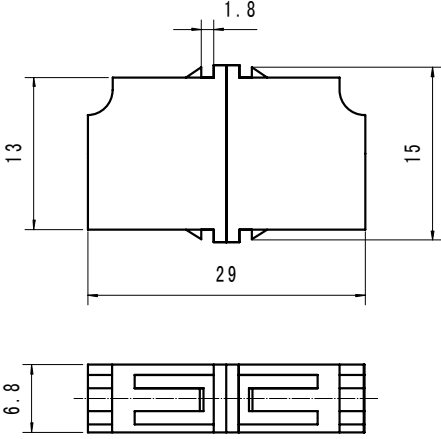
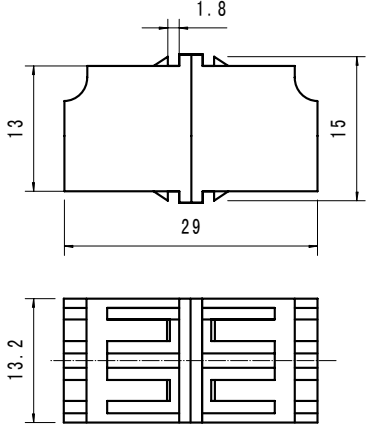
[LC/DLC/LCA/LCD/LCE optic plug]

LC( $\phi 0.9$ )	 <p>The drawing shows two views of the LC(<math>\phi 0.9</math>) optic plug. The side view (left) shows a total length of 30, a ferrule length of 13.8, and a body length of 5.7. The ferrule diameter is <math>\phi 0.9</math>. The front view (right) shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule height of 4.3, a ferrule thickness of 2.3, a body diameter of 4.5, and a body height of 9.3.</p>
------------------	---



LC( $\phi 2$ )	<p>Technical drawing of an LC connector. The side view shows a length of 43.5 mm from the ferrule to the end of the jacket, with a 13.8 mm section for the ferrule and a 15 mm section for the tail. The ferrule diameter is <math>\phi 2</math>. The front view shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule length of 4.3 mm, a ferrule offset of 2.3 mm, and a ferrule diameter of 4.5 mm. The tail diameter is 5.6 mm and the tail length is 10 mm.</p>
DLC(duplex LC)	<p>Technical drawing of a duplex LC connector. The side view shows a length of 43.5 mm from the ferrule to the end of the jacket, with a 12.4 mm section for the ferrule and a 10 mm section for the tail. The ferrule diameter is <math>\phi 2</math>. The front view shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule length of 4.3 mm, a ferrule offset of 2.3 mm, and a ferrule diameter of 4.5 mm. The tail diameter is 5.6 mm and the tail length is 10 mm.</p>
LCA(45°right angle jacket)	<p>Technical drawing of an LCA connector with a 45-degree right angle jacket. The side view shows a length of 48.5 mm from the ferrule to the end of the jacket, with a 13.8 mm section for the ferrule and a 5.7 mm section for the tail. The ferrule diameter is <math>\phi 2</math>. The front view shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule length of 4.3 mm, a ferrule offset of 2.3 mm, and a ferrule diameter of 4.5 mm. The tail diameter is 5.6 mm and the tail length is 10 mm. The tail is bent at a 45-degree angle, with a 1.4 mm section at the end.</p>
LCD(short jacket)	<p>Technical drawing of an LCD connector with a short jacket. The side view shows a length of 35 mm from the ferrule to the end of the jacket, with a 13.8 mm section for the ferrule and a 5.7 mm section for the tail. The ferrule diameter is <math>\phi 2</math>. The front view shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule length of 4.3 mm, a ferrule offset of 2.3 mm, and a ferrule diameter of 4.5 mm. The tail diameter is 5.6 mm and the tail length is 10 mm.</p>
LCE	<p>Technical drawing of an LCE connector. The side view shows a length of 42.5 mm from the ferrule to the end of the jacket, with a 13.8 mm section for the ferrule and a 5 mm section for the tail. The ferrule diameter is <math>\phi 2</math>. The front view shows a ferrule diameter of <math>\phi 3.1</math>, a ferrule length of 4.3 mm, a ferrule offset of 2.3 mm, and a ferrule diameter of 4.5 mm. The tail diameter is 5.6 mm and the tail length is 10 mm.</p>

[LC/DLC adapter]

LC-A(LC adapter)	LC-2A(duplex LC adapter)
 <p>Technical drawing of the LC-A adapter. The side view shows a width of 29, a height of 13 on the left side, and a height of 15 on the right side. A small dimension of 1.8 is indicated at the top. The front view shows a width of 6.8.</p>	 <p>Technical drawing of the LC-2A duplex adapter. The side view shows a width of 29, a height of 13 on the left side, and a height of 15 on the right side. A small dimension of 1.8 is indicated at the top. The front view shows a width of 13.2.</p>