

## Introduction

Fiber Optic Adaptors, also named as fiber adapter or fiber coupler, is a special connector designed to mate or connect two ends of a fiber optic cable with high precision. Fiber adapters are widely used in optical distribution frame (ODF), optical fiber communications equipment, measuring appliance and so on. According to the types of fiber optic connectors that fiber adapters are connected, there are common adapters such SC, FC, ST, LC and MTP/MPO adapter etc., also available in singlemode or multimode.



## Application

Fiber Optic Adaptors are used in fiber optic connection, the typical use is to provide a cable-to-cable fiber connection. people sometimes also name them to be mating sleeves and hybrid adapters, mating sleeves means this fiber optic adapter is used to connect the same type fiber optic connectors, while hybrid adapters are the fiber optic adapter types used to connect different kinds of fiber optic connectors.

- FTTH Termination box
- In-House termination box
- Optical Distribution Frame (ODF)
- Optical communication networks
- LAN fiber networks

## Operation Features

Fiber Optic Adaptors is a perfect solution for provide a cable-to-cable fiber connection. It is widely used where needed for a quick connection, providing a quick assembly and stable performance with the following features

- SC, FC, ST, LC and MTP/MPO adapters are available
- Simplex, duplex or quad type
- Available in Singlemode G652D, G657A1 and G657A2, Multimode fiber OM1, OM2, OM3 and OM4 are available
- High precise ceramic sleeve
- Low insertion loss
- Repeatability, interchangeability, stability
- Shutters open and close automatically
- With or without flange for optional
- Reliable durable and superior optical performance

## Mechanical Performance Test compliance:

- Adapter types: SC, FC, ST and LC, etc. adaptors are available
- Fiber type: SM G652D, 657A, 657B and MM OM1, OM2, OM3 and OM4
- Polishing Type: UPC or APC
- Insert loss:  $\leq 0.2\text{dB}$
- Return loss: UPC  $\geq 50\text{dB}$ , APC  $\geq 60\text{dB}$
- Durability:  $\leq 0.2\text{dB}$  after 1000times
- Operation Temperature:  $-40$  to  $+80^\circ\text{C}$
- Storage Temperature:  $-40$  to  $+70^\circ\text{C}$

Fiber Optic Adaptors	Single Mode	Multi-Mode
Insertion loss	$\leq 0.20\text{dB}$	
Return loss	$\leq 50\text{ dB (UPC)}$ $\leq 60\text{ dB (APC)}$	$\geq 20\text{ dB}$
Operating Temperature	$- 40$ to $+80\text{ }^\circ\text{C}$	
Polishing Type	PC, UPC or APC	PC or UPC
Connectors Type	SC, FC, ST, LC, MU, MTRJ, E2000, MPO etc.	

## Ordering Information

Product Code	Description
LN-LW-AD-xxx-SX-SM	Fiber optic Simplex adaptor Singlemode
LN-LW-AD-xxx-DX-SM	Fiber optic Duplex adaptor Singlemode
LN-LW-AD-xxx-QD-SM	Fiber optic Quad adaptor Singlemode
LN-LW-AD-xxx-SX-MM	Fiber optic Simplex adaptor Multimode OM2
LN-LW-AD-xxx-DX-MM	Fiber optic Duplex adaptor Multimode OM2
LN-LW-AD-xxx-QD-MM	Fiber optic Quad adaptor Multimode OM2
LN-LW-AD-xxx-SX-OM3	Fiber optic Simplex adaptor Multimode OM3
LN-LW-AD-xxx-DX- OM3	Fiber optic Duplex adaptor Multimode OM3
LN-LW-AD-xxx-QD- OM3	Fiber optic Quad adaptor Multimode OM3
LN-LW-AD-xxx-SX- OM4	Fiber optic Simplex adaptor Multimode OM4
LN-LW-AD-xxx-DX- OM4	Fiber optic Duplex adaptor Multimode OM4
LN-LW-AD-xxx-QD- OM4	Fiber optic Quad adaptor Multimode OM4

**\* Note:**

**xxx:** For the Adaptor types such as "SC, SCA, LC, LCA, FC, etc."

**Notice:** The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.

## Types Of Fiber Optic Adaptors

				
SC-SX-SM	SC-SX-MM	SCA-SX-SM	SC-SX-OM3	SC-SX-OM4
				
SC-DX-SM	SC-DX-MM	SCA-DX-SM	SC-DX-OM3	SC-DX-OM4
				
LC-SX-SM	LC-SX-MM	LCA-SX-SM	LC-SX-OM3	LC-SX-OM4
				
LC-DX-SM	LC-DX-MM	LCA-DX-SM	LC-DX-OM3	LC-DX-OM4
				
LC-QD-SM	LC-QD-MM	LCA-QD-SM	LC-QD-OM3	LC-QD-OM4

All types of Adaptors are available with customized configuration