SC FC Fiber Optic Adapter

Fiber optic adapters are the most used optical passive components in fiber-optic communication systems. Most fiber optic connectors consist of three components: two fiber optic connectors and one coupler. Two fiber optic connectors are fitted into the two fiber ends; the coupler functions as an alignment sleeve. In addition, the coupler is often equipped with a metal or non-metal flange to facilitate the installation and fixing of the connector.

Brief Introduction:

The fibers are connected by adapters through their internal open sleeves to ensure maximum connection performance between the fiber connectors. In order to be fixed on various panels, a variety of fine fixing flanges have been designed.

The conversion adapter can be connected to fiber connectors of different interface types at both ends, and provides a connection between the APC end faces. The double or multi-coupler can increase the installation density and save space.

Specifications:

Insertion Loss	<=0.25dB
Return Loss	>=60dB
Operating Temperature	-40℃ to +85℃
Durability	<=0.20dB typical change, 1000 matings
Ferrule Hole Sizes	125.0+1/-0μm, Concentricity: <=0.5μm
125.5+1/-0μm, Concentricity: <=0.5μm	

126.0+1/-0μm, Concentricity: <=0.5μm	

Applications:

CATV

Metro

Telecommunication networks

LANS & WANS

Active device termination

Test equipment

Premise installations

Data processing networks

Features:

SC FC Fiber Optic Adapter is nickel plated brass body

Free-floating ceramic ferrule

Low insertion loss and high return loss

High precision alignment

Compact design

Precision anti-rotation key and corrosion resistant body

Ordering Options:

Housing Color	Housing Material	Sleeve Material	Channel	Application	Flange
Beige	Plastic	Zirconia	Simplex	SC/PC	With
Blue	Metal	PB	Duplex/Quadplex	SC/APC	Without

CE

CPR

ISO

RoHS

The Combination of SC Adapter And FC Adapter:

SC-FC optical adapter is for connecting SC connector and FC connector in the optical network, it is a combination for them.

According to the difference in appearance structure and docking section, fiber adapters can be roughly divided into the following common models: FC, SC, ST, LC, FC-SC, FC-ST, ST-SC, in addition to some male to female Connect to fiber optic adapter.

FC fiber adapter: The external reinforcement method is a metal sleeve, and the fastening method is a screw buckle. FC type connector, butt end of ceramic pins. This type of connector is simple in structure, easy to operate, and easy

to manufacture, but the fiber end is more sensitive to dust, and Fresnel reflection is easy to produce, and it is more difficult to improve the return loss performance. Later, this type of connector was improved, using a spherical pin (PC) with a mating end face, and the external structure was not changed, which made the insertion loss and return loss performance greatly improved.

SC fiber optic adapter: The outer shell is rectangular, and the structural dimensions of the pin and coupling sleeve used are exactly the same as the FC type. Among them, the end surface of the pin is mostly PC or APC type grinding method; the fastening method is the plug pin type, without rotating. Equipped with metal shrapnel for easy concealed use. This type of connector is inexpensive, easy to plug and unplug, has small fluctuations in insertion loss, has high compressive strength, and has a high installation density.

Fiber Optic Adapter Cleaning Method

Although the fiber optic adapter is relatively small and belongs to a small component in fiber optic wiring, this does not affect its important position in the fiber optic wiring system, and it needs to be cleaned like other fiber optic equipment. There are two main cleaning methods, namely Dry cleaning and wet cleaning.

1. Dry cleaning: First, insert a dry cleaning rod into the fiber optic adapter, rotate it and remove it, then align the cleaning rod with the inside of the sleeve, clean the connector inside the fiber adapter, and check whether the end face of the connector Pollution.

2. Wet cleaning: First, dip the cleaning rod into the optical fiber cleaning solution, insert the wet cleaning rod into the adapter, and turn the cleaning rod on the surface of the sleeve, then take a dry cotton swab to clean the connection inside the optical fiber adapter Check the connector end surface for contamination.