

SC Field Installable Fast Connector Specification

Description

SC Field Installable Fast Connector is used for field-installable optical fiber connector, widely used in Fiber To The Home (FTTH) access optical networks, not only for single-mode or multimode fiber, and can also choose to 900um,3 mm and the introduction of cable buffered type. With fast installation time and low insertion loss, the connector system provides a good alternative to fusion splicing. Installation is as easy as strip, clean, cleave cam and crimp.



Item No.: TK-FC-SCU(A)-F001

Features

- Factory-installed fiber stub
- No epoxy or polishing required
- Quick and easy fiber termination in the field
- Eliminates cable excess length and pigtail splice storage
- Cost effective

Application

- Connections at the desk for LAN environments
- Optical access network
- Fiber to the Subscriber (FTTX) applications
- Patch panels
- Direct equipment termination

Parameter

Item	Specification
Insertion Loss	Average≤0.2dB, Max≤0.4dB
Return Loss	PC: ≥40dB, APC: ≥55dB
One-Time Assembly Yield	≥97%
Assembly Repeatability	≥5 times
Average Assembly Time	≤3minute
Life-Time	≥30years
Tensile Strength	≥30N (2.0x3.0 drop cable)
Operation Temperature	-40℃~+85℃



Advantages

Interconnection of two mated fibers occurs inside the ferrule hole, providing precise fiber alignment (patent-design)

The ferrule hole with a accuracy of 1.0um controls both the embedded fiber and the coming fiber and ensures the interconnection of the two fibers.

Interconnection inside the ferrule hole - Strong adaptability for different OD of fibers

In the event of deviation between different diameters of the embedded fiber(D1) and the coming fiber(D2), and b oth in the same capillary hole, there is a clear advantage to C slot design; the mis-alignment distance shall be a maximum less than(D1-D2)/2. While using the V-groove alignment, it is equal or more than D1-D2.

Ceramic material has excellent compatibility with the glass fiber and low thermal expansion coefficient-over a wide operation range:--40°C~+85°C

Ceramic material assures low insertion loss change value under 0.1dB during the tests of high temperature test, low temperature test and high-low temperature cycling test.

Ceramic material has a distinctive advantage—Ceramic is more rigid and will not deform at the fiber interconnec tion point.

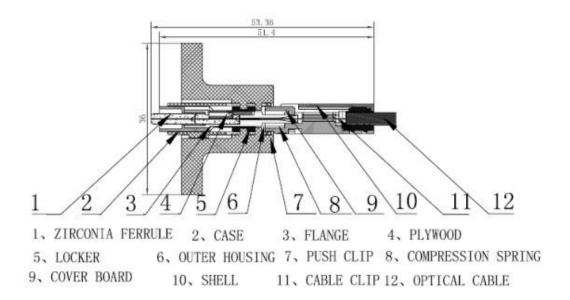
As ceramic material has better tensile strength than plastic material, when Fibers interconnected inside the ferru le hole, it ensures the fiber interconnection point is not easy to deform.

Ceramic material has good performance—long life-time

Ceramic ferrules pass "Pressure Cooker Test" and "-85 °C ~+85 °C test" etc. And the ferrules still meet or exceed the ferrule hole roughness, flatness and precision interconnection requirements due to the clean and non-deformed ceramic ferrule hole after the tests.

The Field Mountable Fiber Optic Connector is easy to be assembled by using a special fixed-length fiber-cut-off j ig. Fiber insertion loss is smooth with a high field-assembly yield as the ferrule entry funnel easily guides the fibe r forward.

Measured the Structure





Product Packaging Information

