

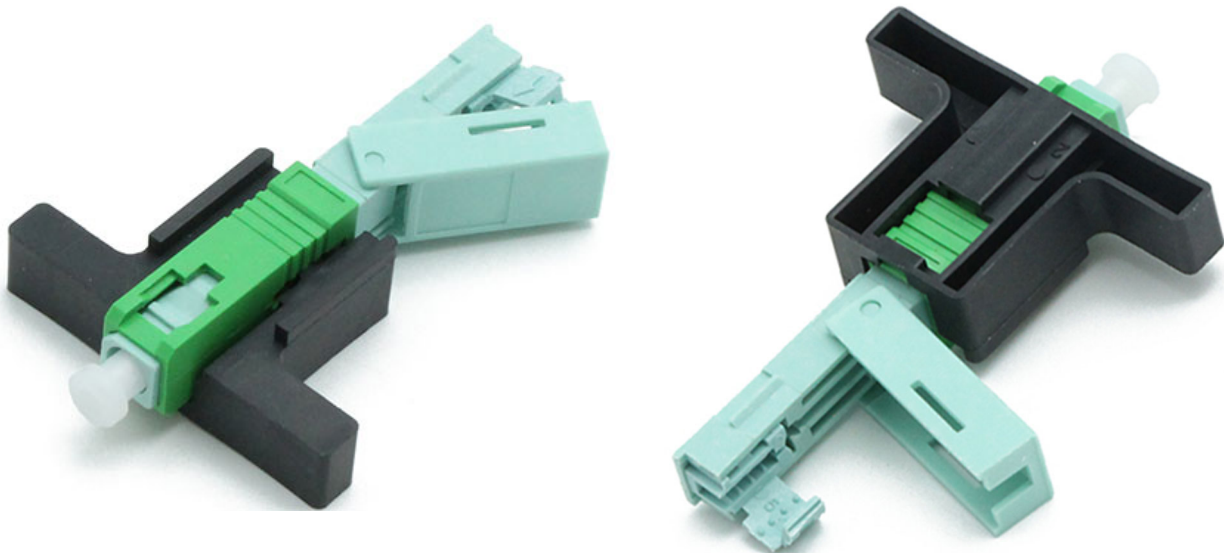
# DATASHEET

## Fast Install Fiber Optic Connector

Adapted with Cable: 0.9/2.0/3.0mm Simplex cable/2x3 FTTH Drop Cable

Locking Method Included: Shell Types and Spiral Types

Length:53mm



OMC INDUSTRY CO.LIMITED

2018|En version1.0

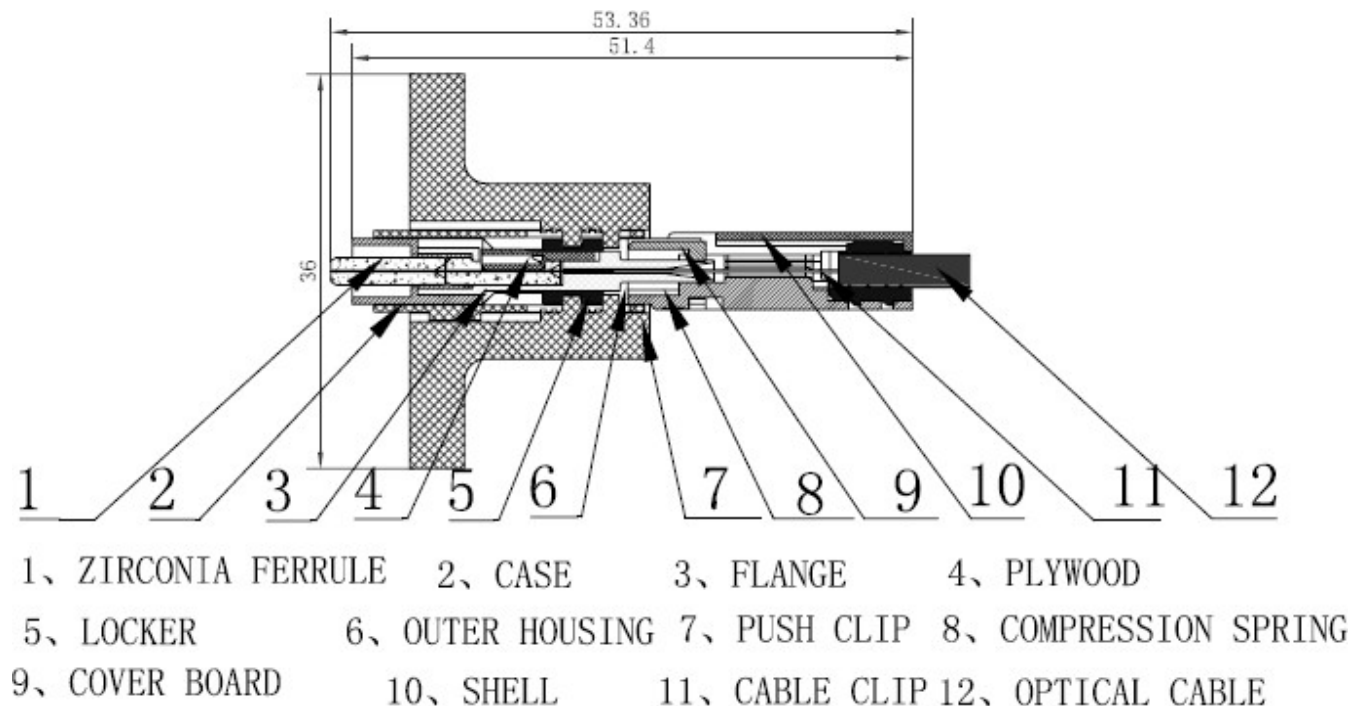
**Fast installation connector** also be called Field install connector is a new kind of connector that could be used in FTTH project scene. They don't need to polishing, no epoxy. They could be installed in the field and make connection less than two minutes. Of course, It don't need fused the fiber. Just some little tools enough, so it could save time and cost.

The Field Assembly Connector products have been factory-polished, eliminating the need for any polishing materials, thereby enabling the preparation and termination of optical fibers in a fraction of the time of other conventional methods. The connector also uses Ceramic V-groove mechanical splice principals and therefore the use of an epoxy is not required for the termination of the connector. This Fast Connector offers convenience in assembling and strong stability. It allows simple optical core connection without any additional practices, or adhesives. It does not require a working space by connecting itself in the challenging environments such as a telephone pole and a manhole. It reconnects the cables and reduces the connection defect rate by an installer error in the field.

Assembly of the SC type quick connector requires only normal fiber preparation tools: a fiber stripping tool, wipes and a fiber cleaver. No electrical power supply is needed. Just Strip the buffer, cleave and clean the fiber and then insert the fiber into the Fast Connector. Installation takes just minutes and couldn't be easier.

The Field Assembly Connector series are already a popular solution for optical wiring inside buildings and floors for LAN & CCTV applications and with the expansion of FTTH, is already proving itself to be the connector of choice by incumbents, municipalities, utilities & alternative carriers. Our Field Assembly Optical Connector series are now available in SC, LC, or FC variants, catering for 250um to 900um, and 2.0mm, 3.0mm diameter single mode and multimode fiber types, including Multi-mode 62.5/125um and Multi-mode 50/125um. The single-mode versions are available with SPC or APC ferrules.

#### Products details:



## Optical Specifications

Part No.	J-O-SSA-53	Connector	SC APC
Ferrule	Ceramic	V-Groove	Ceramic material
Cable Diameters	0.9/2.0/3.0mm Simplex cable 2x3 FTTH Drop Cable	Dimension	53mm
Insertion Loss	$\leq 0.3\text{dB}(\text{typical}); \leq 0.5\text{dB}(\text{Max})$	Return Loss	UPC $\geq 40\text{dB}$ ; APC $\geq 50\text{dB}$
Tension Strength	$\geq 50\text{N}$	Operating Temperature	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$

## End face appearance

End face appearance tested by 200 times magnifying glass					
Test area		Standard			
area	area coverage	scratch	spot	shine spot/ white spot	crack
1	$\Phi 25\mu\text{m}$ within	not allowed	not allowed	no allowed	not allowed
2	$\Phi 25\mu\text{m} \sim \Phi 125\mu\text{m}$	width $\leq 5\mu\text{m}$ qty $\leq 3\text{pcs}$	Diam $\leq 5\mu\text{m}$ qty $\leq 3\text{pcs}$	not allowed	not allowed
3	$\Phi 125\mu\text{m} \sim \Phi 130\mu\text{m}$ (glue gap)	width $\leq 2\mu\text{m}$ , length $\leq 60\mu\text{m}$			
4	end face of ceramic( $\Phi 130\mu\text{m} \sim \Phi 250\mu\text{m}$ )	width $\leq 10\mu\text{m}$ qty $\leq 5\text{pcs}$	Diam $\leq 10\mu\text{m}$ qty $\leq 5\text{pcs}$	Diam $\leq 10\mu\text{m}$ qty $\leq 5\text{pcs}$	not allowed

## 3D Interferometer

Type	Radius (mm)	Apex offset( $\mu\text{m}$ )	Fiber (nm)
PC ( $\Phi 2.5\text{mm}$ )	10 ~ 25	$\leq 70$	-100~+100
APC ( $\Phi 2.5\text{mm}$ )	5 ~ 15	$\leq 70$	-100~+100

## Environmental Specifications

Items	Requirements	Standards
Repeatability	Pull and Push 10 times	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
High temp	+85C, 96h	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Low temp	-40'C, 96h	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Temp. cycle	-40C~+85C, 21Cycles, Total 168 h	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Damp and Hot	+75C, 95%, 96h	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Water Immersion	25 $\pm$ 2°C, 168h, Tap water	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and soon
Repeatability	5 times	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, obvious scratch
Vibrate (Sine)	Frequency: 10-50Hz Scanning: 45times/min Amplitude: 0.75mm Half Time: three directions, 2h each	I1 range < 0.3dB, R1 range $\leq$ 5dB No mechanical damage, obvious scratch
Drop	Height: about 1.5m, Times: 8	I1 range < 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Mechanical Durable	Pull and Push: 500 times	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Tension	Cable: 20N, online; Cable: 30N, offline, 2mins	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on
Torsion (Cable)	Load: 15N Rate: 10 times/min Times: 25	I1 range 0.3dB, R1 range $\leq$ 5dB No mechanical damage, as deformation cracking or relaxing and so on

### Feature:

- No epoxy and polishing required
- Quick and easy fiber termination
- Precision mechanical alignment insures low insertion loss
- Superior optical performance
- Streamlined component design, convenient operation
- Pre-installed, on-site assembly without end face grinding and consideration

### Application in FTTX:

- Fiber optic communication system and telecommuni-  
cation networks
- Fiber optic data transmission
- CATV
- Optical access network
- Fiber to the Subscriber (FTTX) applications
- Optical cable interconnection
- Maintenance or emergency restoration of fiber net-

### Package



Length guider for Fiber cut



Single package 1 piece a bag.



100 pcs in a box