

Field Installable Connector (FIC) SC/APC

Model Number : MCR-FIC SC/APC 01

Application

Connect the FTTH indoor cable (flat drop cable).

Feature

- Connect FTTH indoor cable directly, saving one pigtail and heat-shrinkable tube.
- Small and smart, with beautiful appearance.
- Passive connector, energy saving.
- Easy operation, do not need special training.
- Employ embedded fiber structure; the core part can be reused.



Relevant Solutions

Easy operating, The connector can be directly used in ONU, also with fasten strength more than 30N, it is widely used in FTTH project of network revolution. It also reduce the use of sockets and adapters, save cost of project.

With 86 standard socket and adapter, the connector makes connection between drop cable and patch cord. The 86 standard socket provides complete protection with its unique design.

Applicable to connection with field mountable indoor cable, pigtail, patch cord and transformation of patch cord in data room and directly used in specific ONU.

Environmental performance test

IEC 61754-4	Fiber optic interconnecting devices and passive components - Fiber optic connector interfaces Part 4: Type SC connector family
TIA/EIA 568-C. 3	Optical Fiber Cabling Components Standard
TIA/EIA 604-3	Fiber Optic Connector Intermate ability Standard, Type SC and SC-APC
Telcordia GR-326 Part. 4	Generic Requirements for Single mode Optical Connectors and Jumper Assemblies
Telcordia GR-1209 Part. 4	Generic Requirements for Passive Optical Components
Telcordia GR-1221 Part. 3	Generic Reliability Assurance Requirements for Passive Optical Components
Telcordia GR-765 Part. 1	Single Fiber Single Mode Optical Splices and Splicing Systems
Telcordia GR-1081 Part. 2	Generic Requirements for Field-Mountable Optical Fiber Connectors
IEC 61300-3-4	Attenuation method (A) Return Loss
IEC 61300-3-6	Return Loss method (1) OCWR

MCR GROUP, INC.

Technical data for Field Installable Connector

Model Number	MCR-FIC SC/APC 01	
DESCRIPTION	SPECIFICATION	TECHNICAL INFORMATION
OPTICAL		
Insertion Loss (IL)	1310nm & 1550nm	≤ 0.3 dB (All temperature ranges)
Return Loss (RL)	1310nm & 1550nm	≤-50dB
GENERAL		
Coupling Type	SC	Green, SC/APC
Ferrule Elements	APC	8.0±0.3°
	Diameter	2.5mm
	Material	Ceramic Zirconia
	Fiber	G.657-A/B, G.652D
CABLE	Cable Retention	Chamber/Screw ≥40N /2Min
	Flat Mini figure 8	(5.3±0.2) * (2.0*3.0±0.1) mm
Dimensions	mm	L (51) x W (8.9) x H (7)
OPERATIONAL		
Reusability	5 times	Easy Assembly - Disassembly
Assembly Steps	2	
Ruler/JIG	1x10 CONNECTORS	
MARKING		
PACKAGING	Carton	10 connectors +1 jigs
	Labeling	Manufacturer, model, Quantity
	Quality Testing	Optical Testing Sheet IL & RL
Operation Temperature	-40 ~ +80°C	
Note: Insertion Loss in all temperature ranges ≤0.3dB.		

Production Line Display(clean room):

