Product Data Sheet

LANMASTER field terminated optical connector, SC/UPC



Part Number: LAN-FMC-SC/UPC

LANMASTER field terminated optical connector, SC/UPC

Description

Field terminated optical connectors allow fast connection of single-mode optic fibers used in FTTH networks. The connector is installed on an optic fiber without the use of a splice machine and does not require polishing of the end of the ferrule.

The connector is a pre-assembled appliance. A piece of optic fiber polished at the factory is glued into the ceramic ferrule. A cleaved fiber is inserted from the back of

the connector and fixed mechanically. The cavity at the junction of the fibers is filled with immersion gel. The refractive index of the immersion gel is close to the refractive index of the core of the optic fiber, due to which the transmission of the optical signal is carried out with minimal losses at the interface.

Field installed connectors are recommended as a temporary solution; when working with mechanical connectors, you should monitor the quality of fiber cleavage.

Specifications:

Cable Scope	3.0 x 2.0 mm
Size	51*9*7.55mm
Fiber Diameter	125μm (652 & 657)
Coating Diameter	250μm
Mode	SM
Operation Time	about 15s（exclude fiber presetting)
Insertion Loss	≤ 0.3dB（1310nm & 1550nm)
Return Loss	≤ -50dB
Success Rate	>98%
Reusable Times	>5 times
Tighten Strength of Naked Fiber	>5 N
Tensile Strength	>30 N
Temperature	-40 ~ +85 C
On-line Tensile Strength Test (20 N)	IL ≤ 0.3dB
Mechanical Durability（500 times)	IL ≤ 0.3dB
Drop Test（4m concrete floor, once each direction, three timestotal)	IL ≤ 0.3dB

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Specifications are subject to change without notice. For the most current information, consult LANMASTER or an authorized LANMASTER partner/distributor.