

# AFC-FCU

## Fiber Optic Fast Connector

FC/UPC Mechanical fiber pre-embedded type



### Overview

FC Fiber Optic Fast Connector also called FC Fast Fiber Connector or FC Quick Connector, designed for FTTH is a new generation of fiber connector used in assembly. It can provide Open flow and Pre-cast type of products, whose optical and mechanical specification meets the standard optical fiber connector. It is designed for high quality and high efficiency for installation; the structure of the crimping position is a unique design; and does not need gluing, polishing, or any consumables. It is adopting a fiber pre-installed structure that is convenient for field installation.

### Features

- No gluing and polishing are required
- Can be made on-site without splicing
- Easy to install, fast, and easy on site
- Low insertion loss, high return loss

### Applications

- Premise environments
- Connections at the desk for LAN environments
- Patch panels
- Direct equipment termination
- Fiber to the Subscriber (FTTH) applications
- Repair/replacement requirements
- Equipment test leads

## Technical Specifications

Type	Parameters
Application cable	3.0 x 2.0 mm Drop Cable
Fiber diameter	125 $\mu$ m (G657A & G657B)
Tight buffer diameter	250 $\mu$ m
Insertion loss	AVG $\leq$ 0.3dB, MAX $\leq$ 0.5dB
Return loss	UPC $\geq$ 45dB, APC $\geq$ 50dB
Bare fiber strength	> 3N
Clad strength	> 8N
Tension strength	> 50N
On-line tensile strength (20 N)	$\Delta$ IL $\leq$ 0.2dB $\Delta$ RL $\leq$ 5dB
Mechanical durability (500 times)	$\Delta$ IL $\leq$ 0.2dB $\Delta$ RL $\leq$ 5dB
Drop-off test (drop-off height 4m, once per direction, total 3 times)	$\Delta$ IL $\leq$ 0.2dB $\Delta$ RL $\leq$ 5dB
Operating temperature	-25 °C to +75 °C
Connector length	55 $\pm$ 0.2mm



For further information, please visit our website <https://www.aoatech.com>

All rights are reserved by AOA Technology Co.,Ltd. AOA reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.