

# **MECHANICAL FIBER OPTIC CONNECTOR- FIBER PRE-EMBEDDED TECH**

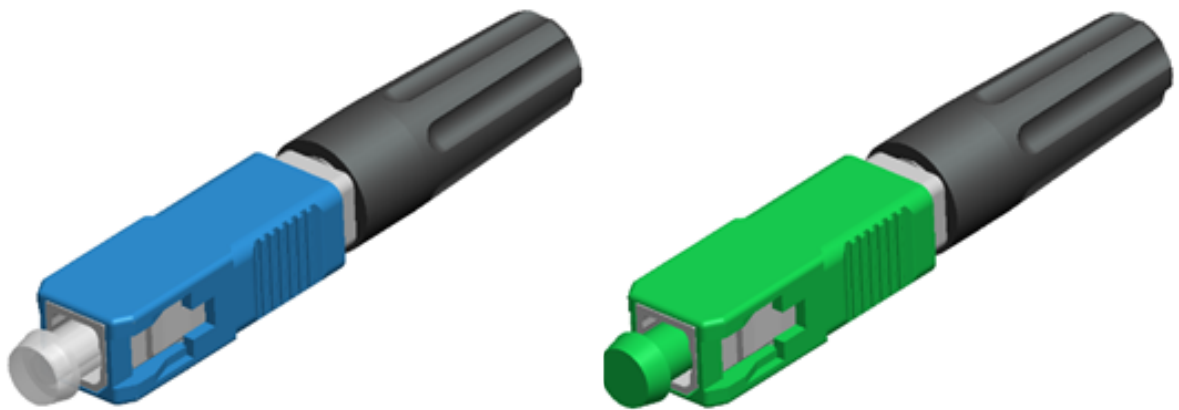
**AR-FCSC-UPC Flat**

## 1. DESCRIPTION

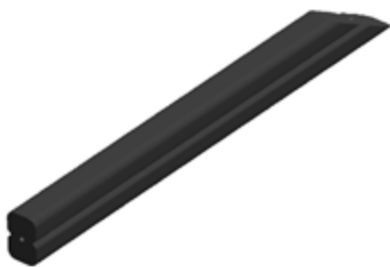
The UNIKIT® Mechanical Field-Mountable Fiber Optic Connector (FMC) is designed to simplify the connection without a fusion splicing machine. This connector is quick assembly, which requires only normal fiber preparation tools: cable stripping tool and fiber cleaver. The connector adopts Fiber Pre-Embedded Tech with superior ceramic ferrule and aluminum alloy V-groove. Also, transparent design of the side cover which allows visual inspection. It could be applied to drop cable and indoor cable.

Size: 53.5\*9\*8mm

**Application** FTTx Data Room Transformation



2.0\*3.0 cable



Φ 0.25 cable



Φ 0.9 cable



Φ 2.0 / 3.0 cable

## 2. TECHNICAL SPECIFICATION

Item	Parameter
Cable Scope	$\Phi$ 3.0 mm & $\Phi$ 2.0 mm Cable $\Phi$ 0.9 invisible cable $\Phi$ 0.25 cable 2.0x3.0mm drop cable
Fiber Diameter	125 $\mu$ m ( 652 & 657 )
Coating Diameter	250&900 $\mu$ m
Mode	SM
Operation Time	about 2min (exclude fiber presetting)
Insertion Loss	$\leq 0.5$ dB (1310nm & 1550nm) , Classic Value: 0.3dB
Return Loss	$\geq 50$ dB for UPC, $\geq 55$ dB for APC
Tensile Strength	$>30$ N/2min
Temperature	-40 $\sim$ +85 $^{\circ}$ C
Tensile Strength	$>30$ N/2min
Mechanical Durability (500 times)	$\Delta$ IL $\leq 0.2$ dB, $\Delta$ RL $< 5$ dB
Drop Test (4m concrete floor, once each direction, three times total)	$\Delta$ IL $\leq 0.2$ dB

## 3. RELEVANT SOLUTIONS

- Easy operating, The connector can be directly used in ONU, also with fasten strength more than 5kg, 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.