

# RAPIDConnect® Mechanical Splice Connectors

## Components

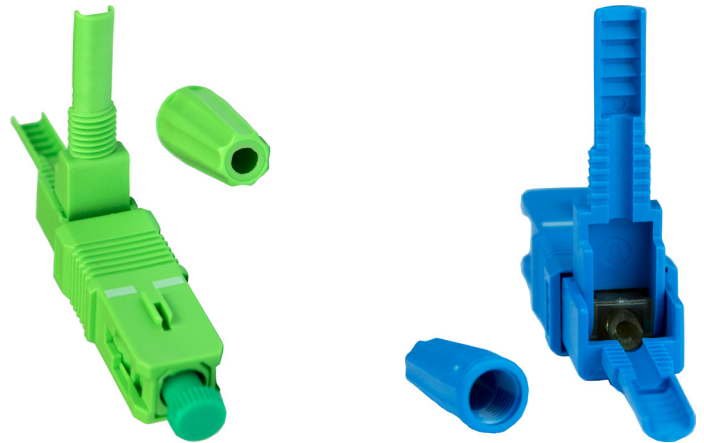
## RAPIDConnect® Mechanical Splice Connectors

ARIA RAPIDConnect® Mechanical Splice Connectors are field installable fiber connectors used to terminate fiber while in the field.

RAPIDConnect® is a very reliable and easy to install product that offers superior optical and mechanical performance when compared with other similar products due to its unique alignment and matching liquid structure.

RAPIDConnect® Connectors are available in the SC connector type with either UPC or APC polish.

Designed for drop cable, 900µm, 2.0mm, and 3.0mm diameter cable.



## Features

### Linkage Locking Structure (Patent Protected)

RAPIDConnect® locks the fiber and cable simultaneously. Simply press on the connector housing to lock the cable and 250µm fiber with a locking ring. No tools are needed.

### Ferrule Fiber Coupling (Patent Protected)

The coupling between the fiber and the embedded fiber are designed in the ferrule and not a “V” groove. This coupling structure provides high optical performance in harsh environments.

### Closed Matching Fluid Chamber (Patent Protected)

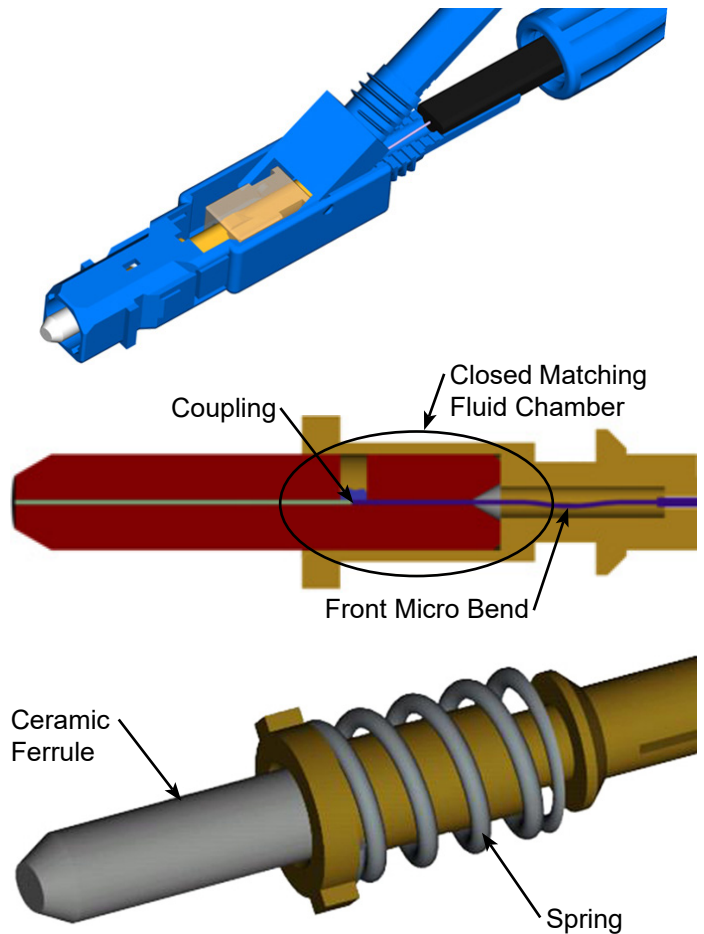
The closed matching fluid chamber prevents evaporation and metamorphism of the matching fluid. This provides the connector with a long lifespan and environment adaptability. The connector works perfectly in a wide temperature range from -40°C to 80°C.

### Front Micro Bend (Patent Protected)

The fiber bends just behind the ferrule and eliminates the gap between the fiber coupling even in extreme temperature conditions.

### Front Spring Structure

The ferrule can adjust its position in each connection just like ordinary optical connectors and provides outstanding optical performance.



# RAPIDConnect® Mechanical Splice Connectors

## Components

## RAPIDConnect® Mechanical Splice Connectors

### Features (Continued)

#### Back Micro Bend

The back bend structure provides high optical performance even under high tension.

#### Sawtooth Cable Locking Structure

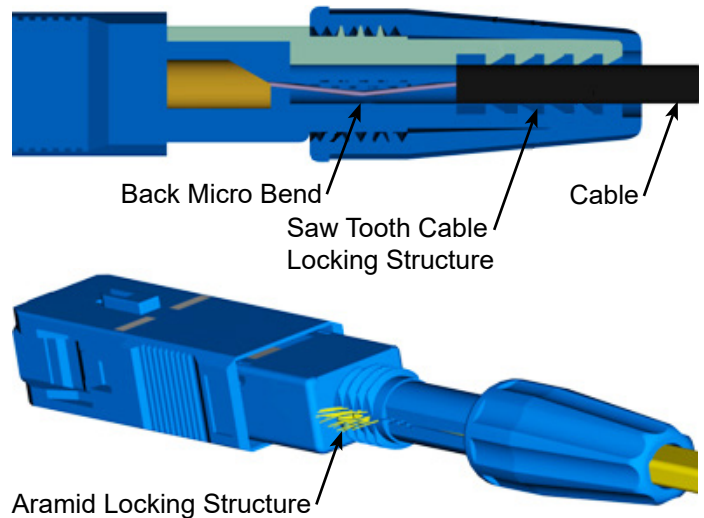
The sawtooth cable locking structure greatly improves the tensile strength of the connector.

#### Tool Free Reassembly Structure

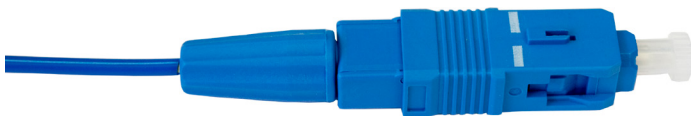
RAPIDConnect® supports multiple reinstallations without any tools.

#### Staggered Tooth Aramid Cable Locking Structure (Patent Protected)

This structure provides incredible tensile strength.



### Example



2.0mm Cable Terminated with an ARIA RAPIDConnect® Mechanical Splice Connector

## Specifications

Parameter	Value
Typical Insertion Loss at 1310 and 1550nm (dB)	0.15
Maximum Insertion Loss at 1310 and 1550nm (dB)	0.30
Typical Return Loss at 1310 and 1550nm (dB)	58
Minimum Return Loss at 1310 and 1550nm (dB)	55
Fiber	Singlemode 9/125µm
Tensile Strength (Drop Cable) (N)	>80
Maximum Number of Uses	10
Operation Temperature (°C)	-40 ~ 75

## Part Number

Description	Part Number
Blue SC/UPC RAPIDConnect®	SC/UPC-FC-B
Green SC/APC RAPIDConnect®	SC/APC-FC-G