

# Fire Retardant (FR) Microfit Connectors

## Product Technical sheet



### ABOUT

Microfit FR is an innovative Push-Fit connection accessory used to connect communication Microduct cables for fiber optics.

A variety of Microfit accessories were designed with full compliance to the requirements of cable manufacturers and installation contractors and especially for last mile infrastructure installations.

**Available Configurations :** Coupling, End-Stop, Reducer.

**Available Sizes :** 3mm to 8mm

**Assembly Method :** Push-fit

**Applicable Piping :** FTTH Microduct

**Applicable Standard :** BS EN 50411-2-8-2009, UL94-V0

**Dis-Assembly:** all sizes can be disassembled by pressing on the collect at force below 1N.

The following data is relevant for both Connectors and Reducer:

### TECHNICAL SPECIFICATIONS

#### Performance :

1. Operating Temperatures : (-10)degC to (+60)degC
2. Blowing pressure : up to 16 Bar
3. Burst Pressure : >26 Bar
4. Gas Tightness :
  - Leakage at 16Bar: gas pressure 1ml/minute approx.
  - Leakage at 0.7Bar : gas pressure 0.1ml/minute approx..
5. Water Ingress : The connector will be sealed against a 6m head of water
6. Insertion Force : <50N max (5kg).
7. Resistance to pullout force:

Product Diameter	Minimum Pullout Force
3mm	45 N
5mm	55N
7mm	125N
8mm	125 N



## MATERIALS

#	Part	Raw Material
1	Body	Polycarbonate, impact resistance, FR resistance V0
2	Collect	Polycarbonate, impact resistance, FR resistance V0
3	Grip Ring	Stainless-Steel 304
4	O-ring	Nitrile Rubber (NBR)

## AVAILABLE PRODUCTS

Descripton	Cat No
FR Straight Connector 3 x 2.1mm	40003D0002FRB
FR Straight Connector 4 x 2.1mm	40004D0002FRB
FR Straight Connector 5 x 3.5mm	40005D0003FRB
FR Straight Connector 6 x 3.5mm	40006D0003FRB
FR Straight Connector 7 x 3.5mm	40007D0003FRB
FR Straight Connector 7 x 5.5mm	40007D0005FRB
FR Straight Connector 8 x 3.5mm	40008D0003FRB
FR Straight Connector 8 x 5.5mm	40008D0005FRB



Descripton	Cat No
FR End Stop 3mm	40003S0000FRB
FR End Stop 4mm	40004S0000FRB
FR End Stop 5mm	40005S0000FRB
FR End Stop 6mm	40006S0000FRB
FR End Stop 7mm	40007S0000FRB
FR End Stop 8mm	40008S0000FRB



Descripton	Cat No
FR Reducing Coupler 3 x 3mm	40003M0003FRB
FR Reducing Coupler 4 x 4mm	40004M0004FRB
FR Reducing Coupler 5 x 5mm	40005M0005FRB
FR Reducing Coupler 6 x 6mm	40006M0006FRB
FR Reducing Coupler 7 x 7mm	40007M0007FRB
FR Reducing Coupler 8 x 8mm	40008M0008FRB



**Assembly instructions:**

- Cut the microduct pipe in straight line, using dedicated cutter tool.
- Insert the pipe end into the fitting all the way in.
- Repeat on the other side with the second pipe.

**The pipe can be dismantled from the fitting by pressing the blue ring into the body with one hand, while pulling the pipe out using other hand.**