

# MiniFlex™

## Fiber Cable - QuikPush



The Miniflex QuikPush cable is a flexible, pushable pre-terminated fiber optic drop solution for fast and reliable FTTx deployments. At just 3mm outer diameter [ $<1/8$  inch] the Miniflex drop cable is also one of the smallest cables in the industry.

Manufactured using the patented Miniflex grooving process and utilising the Balistix pushable connector technology, The Miniflex QuikPush Cable has a number of advantages over alternative last drop solutions.

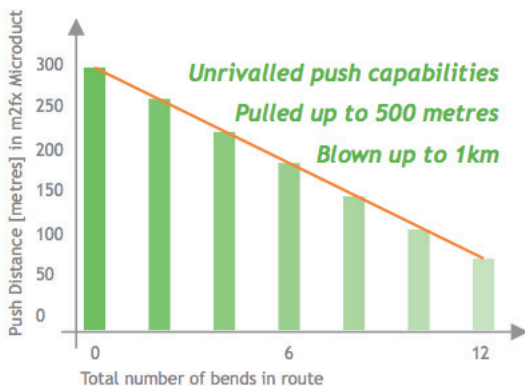


### Applications

- FTTH/FTTX – Indoor & Outdoor Drops
- Single dwelling and MDU
- FTTP and Campus Networks
- Telecoms
- Rural Broadband
- DAS / FTTA

### Specifications

- ITU-T: G.657, & G.651
- NEC: UL 1651 – Field Assembled Cable
- IEC: 60794-1-2, 60332-2-2
- REACH & RoHS Compliant



### Advantages

- Pre-terminated so no field splicing / mechanical termination
- Guaranteed Insertion Loss / Return Loss with certification
- Installs inside microducts with  $>\varnothing 5.5$ mm I.D
- Industry Standard SC Connector format
- Single-mode UPC, APC or Multimode options
- Fire Resistant and LSZH materials available
- Features Miniflex bend limiting technology
- Ultra light-weight
- High crush resistance
- Low friction outer sheath
- Inherent kink resistance
- Small round concentric design



Reducing the industry standard SC connector diameter from more than  $\varnothing 11$ mm to less than  $\varnothing 5$ mm; means that the QuikPush cable is optimised for installing through the small spaces that are typical of most FTTx scenarios. QuikPush can be installed without using large conduits or drilling big holes through the customer's wall. At the other end of the drop cable the connector options are unlimited; including SC, LC, FC, Balistix SC [QuikPush] and even no connector.

QuikPush can be successfully pushed through  $\varnothing 5$ mm holes and Microduct bores as small as  $\varnothing 5.5$ mm. Hand push distances vary according to bend frequency and duct quality; e.g. Miniflex QuikPush combined with m2fx Microduct exceeds 100 metres in a route with 8 x 90 bends. With air assistance the route can be extended to 12 x bends and upto 1km.

The rugged nature of the Miniflex cable in tandem with the QuikPush pre-terminated connector reduces the cost of fiber deployments as well as the intrinsic skill and difficulty of handling and connecting customer drop cables.

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### Cable Material Information

Fiber Count	Weight	OD	Sheath Thickness	Tension Strength	Impact Resistance	Minimum Bend Radius	
						Installation	Operation
250µm	(kg/km)	(mm)	(mm)	(n)	(J)	(mm)	(mm)
1, 2, 4, 6, 8 & 12*	7-8	3.0	0.8	100	2	15	30

\* only the first fiber is terminated, all other fibers remain dark

Material	Applications	Fire Rating	Color	Operating Temp	Crush Resistance
PBT	Indoor - Outdoor	UL 1651 OFNG General Use & OFNR* Riser IEC 60332-2-2	Black**	-40°C to +80°C	950N
PA12	Indoor	Indoor - (LSZH)	White**	-30°C to +70°C	650N

\* Other colors available upon request \*\*Other colors available upon request

### Transmission Performance Specification

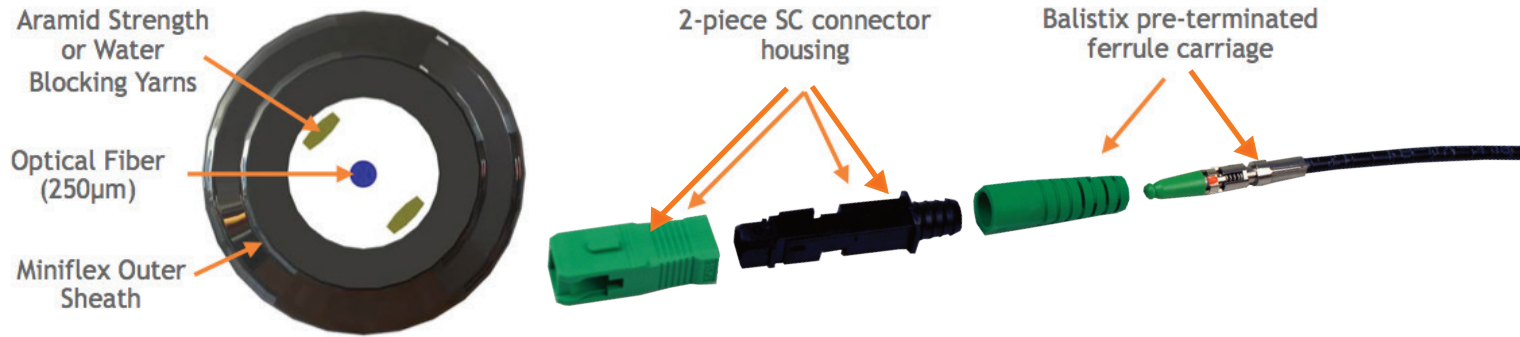
Item	Single-mode	Multi-mode
Specification	G657A1	OM3
Attenuation (850 / 1300 nm)	n/a	3.5/1.5 dB/km
Attenuation (1310 / 1550 nm)	0.4/0.3 dB/km	n/a
Attenuation at 1625 nm	< 0.24 dB/km	n/a
Refractive Index at 1310nm, 1550nm	1.467, 1.468	n/a
Refractive Index at 850nm, 1300nm	n/a	1.482, 1.477
Proof test	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.
Cladding diameter	125 ± 0.7µm	125 ± 1.0µm
Coated diameter	235µm to 245µm	237µm to 247µm
Core/Cladding concentricity error	≤ 0.5µm	≤ 1.0µm
Coating concentricity error	≤ 12µm	≤ 6µm
Macro bend loss	(1550 nm)	(850 and 1300 nm)
10 turns at 50mm diameter	≤ 0.01 dB	≤ 0.2 dB
10 turns at 30mm diameter	≤ 0.2 dB	n/a
1 turn at 20mm diameter	≤ 0.2 dB	n/a
Temp. range (operation) -60°C to +85°C	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.1 dB/km
Coating Strip Force	1.3 to 8.9 N	1.3 to 8.9 N

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### QuikPush Cable Design



### Contact

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