

Miniflex® Bulk Fiber Cable



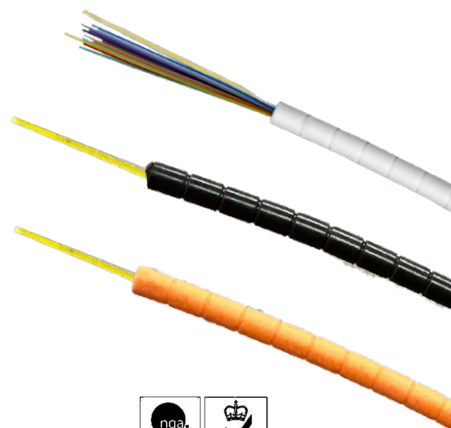
Features & Benefits

- Ruggedized indoor/outdoor microcable with Miniflex® grooving technology
- Optimal combination of size, crush resistance, flexibility & fiber density
- Best-in-class push/pull and blow-ability
- Small bend radius – down to 5x outside diameter
- Loose tube, gel free construction with 1-24 fibers
- Available in UL 1651 Riser (FT4) and Plenum (FT6)
- UV stable in all colors, with black offering the highest UV stability
- Tough enough for clipping, stapling, and gluing

Compatibility

- Field Splice and Lab Terminations
 - 900µ for MSOC and 250µ for splice tray applications
- QuikPush® (SC & LC), and most other industry standard pre-terminated connector configurations, including MPO and HFOC

- BABA compliant options available



Overview

Miniflex® bulk cable is an indoor/outdoor pushable/pullable/blowable cable that has exceptionally low weight for the level of strength and protection it provides. Because of the Miniflex grooving technology, this ruggedized cable is ultra flexible and won't easily kink like many fiber cables, which makes handling the optical fiber much safer. No special expertise or installation tools are required to push/pull the Miniflex cable through most raceways or microducts.

Applications

- FTTH/FTTX – Indoor & Outdoor
- MDU & Rural Broadband Single-Dwelling Units
- Telecoms, Data Infrastructure and Transportation

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Technical Data

	Cable Jacket O.D.	Nominal Weight	Tension Strength	Crush Resistance	Minimum Bend Radius
	mm	lb per 1000ft	N (lbf)	N (lbf)	mm
PBIO	2.2	4	100 (23)	3000 (674)	22
	3	5.4	100 (23)	2900 (652)	30
	4	8.6	100 (23)	2000 (449)	40
	4.3	9.7	200 (45)	3200 (719)	43
	6.3	20.1	150 (33)	3000 (674)	63
Plenum	4	7.9	100 (23)	750 (169)	40

Toneable cables use a 33 AWG Copper Clad Toning Wire.

	Installation Temperature Range	Operation Temperature Range	Transportation Temperature Range
	°C (°F)	°C (°F)	°C (°F)
PBIO	-10°C to 60°C (14°F to 140°F)	-20°C to 70°C (-4°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Plenum	-10°C to 60°C (14°F to 140°F)	-20°C to 70°C (-4°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Fiber Transmission Performance Specification

Item	Single-mode 250µm	Single-mode 900µm	Multi-mode	
Specification	G657 A1	G657 A2	OM3	OM4
Attenuation (850 / 1300 nm)	N/A	N/A	3.5/1.5 dB/km	3.5/1.5 dB/km
Attenuation (1310 / 1550 nm)	0.4/0.3 dB/km	0.4/0.3 dB/km	N/A	N/A
Attenuation at 1383nm	≤ 0.32 dB/km	N/A	N/A	N/A
Attenuation at 1625 nm	< 0.24 dB/km	< 0.24 dB/km	N/A	N/A
Refractive Index at 1310nm, 1550nm	1.467, 1.468	1.467, 1.468	N/A	N/A
Refractive Index at 850nm, 1300nm	N/A	N/A	1.482, 1.477	1.482, 1.477
Proof test	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.
Cladding diameter	125 ± 0.7µm	125 ± 0.7µm	125 ± 1.0µm	125 ± 1.0µm
Coated diameter	235µm to 245µm	235µm to 245µm	237µm to 247µm	237µm to 247µm
Core/Cladding concentricity error	≤ 0.5µm	≤ 0.5µm	≤ 1.0µm	≤ 1.0µm
Coating concentricity error	≤ 12µm	≤ 12µm	≤ 6µm	≤ 6µm
Macro bend loss	(1550 nm)	(1550 nm)	(850 and 1300 nm)	(850 and 1300 nm)
10 turns at 50mm diameter	≤ 0.01 dB	N/A	≤ 0.2 dB	≤ 0.2 dB
10 turns at 15 mm diameter	≤ 0.2 dB	≤ 0.01 dB	N/A	N/A
1 turn at 10mm diameter	≤ 0.2 dB	≤ 0.50 dB	N/A	N/A
Temp. range (operation) -60°C to 85°C (-76°F to 185°F)	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.05 dB/km
Coating Strip Force	1.3 to 8.9 N	1.3 to 8.9 N	1.3 to 8.9 N	1.3 to 8.9 N

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Ordering Information - 900µm | Best for Field Termination

Fiber Count	Miniflex Jacket Outside Diameter	Length	PBIO Black	PBIO Riser White	PVDF Plenum White
1 fiber	3mm	6500FT	10-0225FT	10-1338FT	10-0755FT (4mm OD)
2 fiber	4mm	6500FT	10-1679FT	10-1401FT	N/A
4 fiber	4mm	6500FT	10-1680FT	10-1492FT	N/A
6 fiber	6.3mm	3280FT	10-1681FT	10-1498FT	N/A
8 fiber	6.3mm	3280FT	10-1682FT	10-1499FT	N/A
12 fiber	8mm	3280FT	N/A	10-1344FT	N/A
24 fiber, 600µm	8mm	3280FT	N/A	10-1468FT	N/A

For options with meter markings, tone-ability, different colors, and other lengths not listed, please contact customer service

Ordering Information - 250µm | Best for Splice Tray Applications

Fiber Count	Jacket Diameter	Length	PBIO Black	PBIO Riser White	PVDF Plenum White
1 fiber	2.2mm	6500FT	N/A	10-1244FT	N/A
2 fiber	2.2mm	6500FT	N/A	10-1299FT	N/A
4 fiber	2.2mm	6500FT	N/A	10-1298FT	N/A
1 fiber	3mm	6500FT	10-0236FT	10-1310FT	10-0756FT (4mm OD)
2 fiber	3mm	6500FT	10-0215FT	10-1329FT	10-0757FT (4mm OD)
4 fiber	3mm	6500FT	10-0239FT	10-1246FT	10-0758FT (4mm OD)
6 fiber	3mm	6500FT	10-0213FT	10-1331FT	10-0759FT (4mm OD)
8 fiber	3mm	6500FT	10-0222FT	10-1332FT	10-0760FT (4mm OD)
12 fiber	3mm	6500FT	10-0217FT	10-1272FT	10-0761FT (4mm OD)
24 fiber	4mm	6500FT	10-0235FT	10-1365FT (4.3mm OD)	10-0762FT

For options with meter markings, tone-ability, different colors, and other lengths not listed, please contact customer service



Contact your customer service representative for BABA compliant options