

MiniFlex™ Standard Cable

Miniflex™ standard fiber cable is a flexible, pushable fiber optic cable made from a crush resistant durable polymer. It has exceptionally low weight for the level of strength and protection it provides. Miniflex™ standard fiber Cable is available with many different counts & types of fiber including G.657A1 singlemode and G.651 OM3 multimode.

It is suitable for installation using blowing, pulling and pushing techniques.



Advantages

- Fire Retardant
- UV Stabilised
- Features Miniflex™ technology
- Lightweight/ Small diameter
- Grooving increases flexibility/ Bend Radius
- Very high crush resistance
- Uses industry-standard fiber
- Ultra tough
- Class-leading combination of size, crush resistance, flexibility & fiber density.

Compatibility List

- ITU-T G.657 & G.651
- UL 2024 Optical Fiber Raceway
- Field splice and lab terminations
- M2fx microduct – Indoor, Riser, Plenum, Outdoor, Aerial & Direct Bury
- QuikPush™ pre-terminated connector (SC & LC)

Applications

- FTTH/FTTX - Indoor
- FTTH/FTTX – Outdoor
- Data Infrastructure
- Military
- Telecoms
- Rural Broadband
- Transportation
- DAS / FTTA



Cable Material Information

Fiber Count	Weight (kg/km)	OD (mm)	Sheath Thickness (mm)	Tension Strength (n)	Minimum Bend Radius		Crush (n)
					Installation (mm)	Operation (mm)	
250µm							
1, 2, 4, 6, 8 & 12	8.1	3.0	0.8	100	15	30	950
24	9.2	4.0	0.7	100	20	40	650

Material	Properties	Best for	Colour	Operating Temp	Installation Temp
PBT	Hardest & toughest outdoor material, some UV resistance	Indoor - (FR) Outdoor – (UV stable)	Black*	-40°C to +80°C	-20°C to +60°C

* Other colors available upon request

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Authorized Partner



Transmission Performance Specification

Item	Single-mode	Multi-mode
Specification	G657 A1	OM3
Attenuation (850 / 1300 nm)	n/a	≤ 2.3/0.60 dB/km
Attenuation (1310 / 1550 nm)	≤ 0.35/0.21 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)	(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

Enquiry Information: Code Builder

1-12 Fiber Cable

24 Fiber Cable

