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Miniflex®

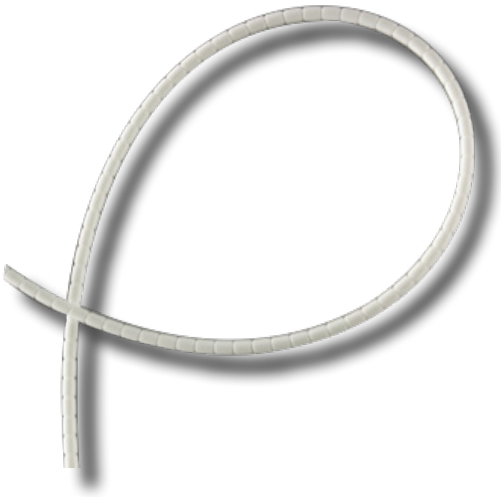
Euroclass Dca Cable

1-24 Fibers

PPC® A BELDEN BRAND

Features & Benefits

- ITU-T G652.D, G657A1 & G657A2 optical fiber
- Loose tube cable design
- Dry construction (no gel)
- Terminated with Balistix™ SC and LC connectors (QuikPush®), and industry standard connectors
- Ultra-flexible, small bend radius for compact slack fiber storage
- Pushable, pullable, and blowable for routing into building ducts and conduits
- Small and unobtrusive enough for surface mount applications
- Tough enough for clipping, tacking and gluing
- EN CPR (Construction Products Regulation) Dca rated
- UV Stable, Lightweight and High Crush Resistance
- Small Diameter (2.2 mm for 1-4 fibers, 3 mm for 1-12 fibers and 4.3 mm for 24 fibers)
- Miniflex® Technology for 5x diameter operating bend radius
- Best-in-class push/pull and blow-ability



Overview

Rated Dca in accordance with EN 50575:2014+A1:2016, Miniflex fiber cable is considered a low fire hazard product. With low flame spread and zero droplets, it is the ideal cable solution in areas with high fire risks such as public and multi-dwelling buildings, escape routes and corridors. Miniflex Cable is a rugged, ultra-flexible drop cable solution for pushing and pulling inside raceways or for fixing directly to building surfaces.

By virtue of the Miniflex grooving technology, this lightweight fiber cable is ultra-flexible while resisting the urge to kink like regular fiber cable. No specialist installation tools are required to push/pull Miniflex through FTTx microducts. When combined with PPC's class-leading low-friction microducts, the cable can be pushed by hand up to 100 m with up to 8 x 90° bends in the route.

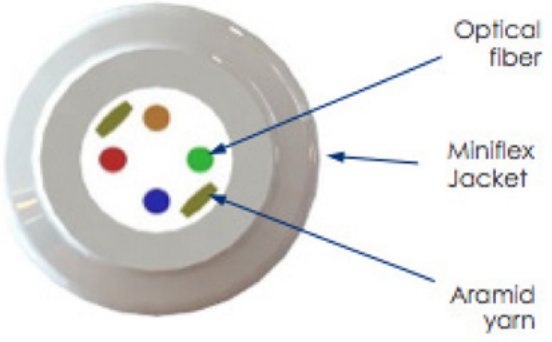
Applications

- FTTH / FTTX indoor and outdoor
- MDU and rural broadband single-dwelling units (SDU)
- Telecoms, data infrastructure and transportation

Technical Data

Transmission Performance Specification

Fiber Performance		
Type	Single-mode	
Specification	G657A1	G657A2
Max. Attenuation 1310 nm / 1550 nm	≤ 0.40 dB/km / 0.35 dB/km	
Min. Bend Radius	Attenuation dB at 1550 nm	
10 turns at 15mm	0.20	0.03
1 turn at 10mm	0.75	0.10
1 turn at 7.5mm	~	0.50



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Technical Data

Mechanical Performance Specification

Cable Dimensions		Tensile Performance	Impact Performance	Bend Performance	
Cable Jacket O.D.	Wall Thickness	Max. Install Tension	<0.05dB change	Installation Min. Bend Radius	Operating Min. Bend Radius
(mm)	*(mm)*	*(N)*	*(N. m)*	*(mm)*	*(mm)*
4.3	1.05	200	3	43	22
3.0	0.8	100	2	30	15
2.2	0.5	100	2	22	11

Cable Dimensions		Crush Resistance			Temperature Performance
Cable Jacket O.D.	Wall Thickness	Recoverable Jacket Damage	<0.05 dB Attenuation	Loss of Optical Signal	Operating Range
(mm)	*(mm)*	*(N)*	*(N)*	*(N)*	*°C (°F)*
4.3	1.05	1500	3200	>4000	-40 to 70 (-40 to 158)
3.0	0.8	1500	2900	>3400	-40 to 70 (-40 to 158)
2.2	0.5	1500	3000	>3500	-40 to 70 (-40 to 158)

Ordering Information

Fiber Type (ITU-T)	Fiber Coating	Cable O.D.	Fiber Count	Descriptive Code	Standard SKU (m marked) 2,000 m
G657A1	250 µm	2.2 mm	1	MX-012-PBIO-WHT-A1-250	10-1244
G657A1	250 µm	2.2 mm	2	MX-022-PBIO-WHT-A1-250	10-1299
G657A1	250 µm	2.2 mm	4	MX-042-PBIO-WHT-A1-250	10-1298
G657A1	250 µm	3.0 mm	1	MX-013-PBIO-WHT-A1-250	10-1310
G657A1	250 µm	3.0 mm	2	MX-023-PBIO-WHT-A1-250	10-1329
G657A1	250 µm	3.0 mm	4	MX-043-PBIO-WHT-A1-250	10-1246
G657A1	250 µm	3.0 mm	6	MX-063-PBIO-WHT-A1-250	10-1331
G657A1	250 µm	3.0 mm	8	MX-083-PBIO-WHT-A1-250	10-1332
G657A1	250 µm	3.0 mm	12	MX-123-PBIO-WHT-A1-250	10-1272
G657A1	250 µm	4.3 mm	24	MX-244-PBIO-WHT-A1-250	10-1494
G657A2	250 µm	2.2 mm	1	MX-012-PBIO-WHT-A2-250	10-1388
G657A2	250 µm	2.2 mm	2	MX-022-PBIO-WHT-A2-250	10-1473
G657A2	250 µm	2.2 mm	4	MX-042-PBIO-WHT-A2-250	10-1437
G657A2	250 µm	3.0 mm	1	MX-013-PBIO-WHT-A2-250	10-1389
G657A2	250 µm	3.0 mm	2	MX-023-PBIO-WHT-A2-250	10-1474
G657A2	250 µm	3.0 mm	4	MX-043-PBIO-WHT-A2-250	10-1439

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