

# Miniflex<sup>®</sup> CIMD

## Cable-in-Microduct

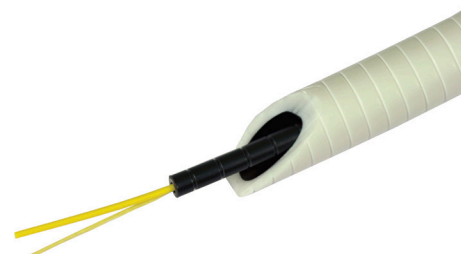


### Features & Benefits

- Fire retardant
- UV stabilized
- Lightweight
- Small form factor
- Grooving increases flexibility/bend radius
- High crush resistance

### Compatibility:

- ITU-T G.657 & G.651
- UL 2024 Optical Fiber Raceway
- Field Splice and Lab Terminations



### Overview

Miniflex<sup>®</sup> CIMD is a flexible cable in microduct made from a crush-resistant polymer with a high strength-to-weight ratio. Miniflex CIMD is available with many different fiber counts and fire ratings.

### Applications

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

### Cable Material Information

Cable Material	Properties	Best for	Color	Operating Temp	Installation Temp
PBT	Hardest & toughest outdoor material, some UV resistance	Indoor - (FR) Outdoor – (UV stable)	Black	-40°C to 80°C (-40°F to 176°F)	-20°C to 60°C (-4°F to 140°F)
PBIO	Tough and lightweight, Riser	Indoor – Flame Retardant (UL1651 material)	White	-40°C to 80°C (-40°F to 176°F)	-20°C to 60°C (-4°F to 140°F)

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### Technical Data

#### Fiber Specifications

Type	Fiber Count	Weight	O.D.	Sheath Thickness	Tension Strength	Minimum Bend Radius		Crush
						Installation	Operation	
<i>μm</i>		<i>kg/km, lb/100ft</i>	<i>mm</i>	<i>mm</i>	<i>N</i>	<i>mm</i>	<i>mm</i>	<i>N</i>
900	1	8.1	3.0	0.8	100	15	30	950
250	1-12	8.1	3.0	0.8	100	15	30	950
250	24	8.1	4.0	0.7	100	20	40	650

#### Drop Duct Specifications

Material	O.D.	I.D.	Crush	Tension	Nominal Weight	Bend Radius	Bend Radius	Install Temp	Operating Temperature
	<i>mm</i>	<i>mm</i>	<i>N</i>	<i>N</i>	<i>kg/km</i>	<i>Passive</i>	<i>Active</i>	<i>°C (°F)</i>	<i>°C (°F)</i>
PBT Standard	8.0	5.5	400	250	24.3	10x OD	5x OD	-10 to 60 (14 to 140)	-40 to 70 (-40 to 158)
	10.0	6.0	725	350	39.6				
PVDF* Plenum	10.0	7.0	1000	250	26.5**	10x OD	5x OD	-10 to 60 (14 to 140)	
PEMX Riser	8.0	5.5	400	250	24.3	10x OD	5x OD	-10 to 60 (14 to 140)	
	10.0	6.0	725	350	39.6				
HDPE	10.0	6.0	2000	800	49.1	10x OD	5x OD	-10 to 60 (14 to 140)	

#### Transmission Performance Specification

Item	Single-mode
Specification	G657 A1
Attenuation (1310 / 1550 nm)	≤ 0.35/0.21 dB/km
Attenuation at 1625 nm	< 0.24 dB/km
Refractive Index at 1310nm, 1550nm	1.467, 1.468
Proof test	0.69 GPa (100 kpsi), 1% min.
Cladding diameter	125 ± 0.7 μm
Coated diameter	235 μm to 245 μm
Core/Cladding concentricity error	≤ 0.5 μm
Coating concentricity error Macro bend loss	≤ 12 μm (1550 nm)
Temp. range (operation) -60°C to 85°C (-76°F to 185°F)	max attenuation change ≤ 0.05 dB/km
Coating Strip Force 1.3 to 8.9 N	1.3 to 8.9 N

#### Ordering Information

Part Number	Description	Fiber Count	Type	Spool Length
10-1297	10mm Riser Microduct – 3mm PBT Miniflex	1	250 μm	3,280 ft / 1 km
10-1300	8mm Riser Microduct – 3mm Riser Miniflex	1	250 μm	3,280 ft / 1 km
10-1309FT	8mm Riser Microduct – 3mm Riser Miniflex	1	900 μm	1,000 ft / 305 m

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