

Miniflex® Protection Tube



Miniflex® protection tube is a flexible tube made from tough polymers to protect optical fibers or lightweight optical fiber units. PPC makes hard plastic flexible through our patented grooved design and process.

Miniflex® protection tube has exceptionally low weight for the level of strength and protection it provides and it's the only flexible, durable polymer protective jacket in the industry.



Advantages

- Tough
- Lightweight – as little as 5g/m
- Compact – small diameter down to 3mm
- Flexible – grooving allows tough polymer to be flexible
- Anti-kink property
- Very high crush resistance – up to 1400N
- Slit version – suitable for retro-fitting over installed fiber
- Small bend radius – down to 5x OD

Compatibility List

Miniflex® protection tube is compatible with:

- All normal fiber termination methods (e.g. SC/LC/MTP/E2000)
- Standard tube/microduct push-fit connectors
- Electrical cable style installation – staples or cable clips
- All industry standard fiber, bend insensitive fiber and small – diameter cable

Applications

- FTTh/FTTx – Outdoor
- FTTh/FTTx – Indoor
- Transport – Automotive
- Broadband Networks
- Data Infrastructure
- Transport – Aerospace

Product Specifications

Material	Property	Best for...	Color
PBT	Hardest & toughest outdoor material, some UV resistance	All general applications	BLK, WHT
PA12	(Nylon) Hardest & toughest indoor material, European LSZH	Frequently accessed ODFs needing extra protection	WHT
MDPE	Standard cable jacket material	Aerial	BLK
HDPE	Harder & denser than MDPE	Direct bury	ORG
PVDF	Used for indoor & outdoor applications. Meets US fire ratings (OFNR)	Indoor use especially building risers	WHT
PP	Basic most cost effective grade	Protecting fiber in cabinets	ALL
PEMX	Specialized LSZH & riser material	Indoor use especially building risers	WHT, BLK

• ISO9001 Production, REACH, ROHS, Certificate of Origin, EN 50411-6-1, IEC 60794-5

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Material	OD (mm)	ID	Crush (n)	Tension (n)	Nominal Weight (kg/km)	Bend Radius (Passive)	Bend Radius (Active)	Install Temp (Celsius)	Product Code
PBT	3.0	1.4	950	140	8.1	10x OD	5x OD	-10 to +60	3.0-1.4-PBT
	4.0	2.6	650	130	11	10x OD	5x OD	-10 to +60	4.0-2.6-PBT
	5.0	3.1	1400	280	13.6	10x OD	5x OD	-10 to +60	5.0-3.1-PBT
	6.35	4.2	1000	130	19.4	10x OD	5x OD	-10 to +60	6.3-4.2-PBT
PA12	3.0	1.4	650	100	7.5	10x OD	5x OD	-10 to +60	3.0-1.4-PA12
	4.0	2.6	550	100	7.7	10x OD	5x OD	-10 to +60	4.0-2.6-PA12
	5.0	3.1	1000	150	11.0	10x OD	5x OD	-10 to +60	5.0-3.1-PA12
	6.35	4.2	1000	150	20	10x OD	5x OD	-10 to +60	6.3-4.2-PA12
PP	3.0	1.4	500	80	4.5	10x OD	5x OD	-10 to +60	3.0-1.4-PP
	4.0	2.6	550	100	6.5	10x OD	5x OD	-10 to +60	4.0-2.6-PP
	5.0	3.1	800	100	10.0	10x OD	5x OD	-10 to +60	5.0-3.1-PP
	6.35	4.2	800	100	14.3	10x OD	5x OD	-10 to +60	6.3-4.2-PP

Environmental Conditions: Operating Temperature: -10°C / +60°C

Options: Slit - A slit version of the product is available.
This allows retro-fit of Optical fiber or cable already in-situ.