

Easily blown pre-connectorized MK-AX cable

FIBRAIN's EBP™ last mile preterminated drop cable solution **is designed to be blown through microducts in FTTH networks.**

The solution is based on a ready-made pre-connectorized cable kit.

Unpack, blow into the microduct, assemble the connector housing, connect and inspect.



Fast installation

ready for installation by air-blowing cable kit



Terminated with special LC APC ferrule
protected with dust cup during installation



Large blowing ranges
even over 1000m



Cost saving solution

eliminates the need for splicing connections – no need to use costly splicing machines and operators at the premises



High performance

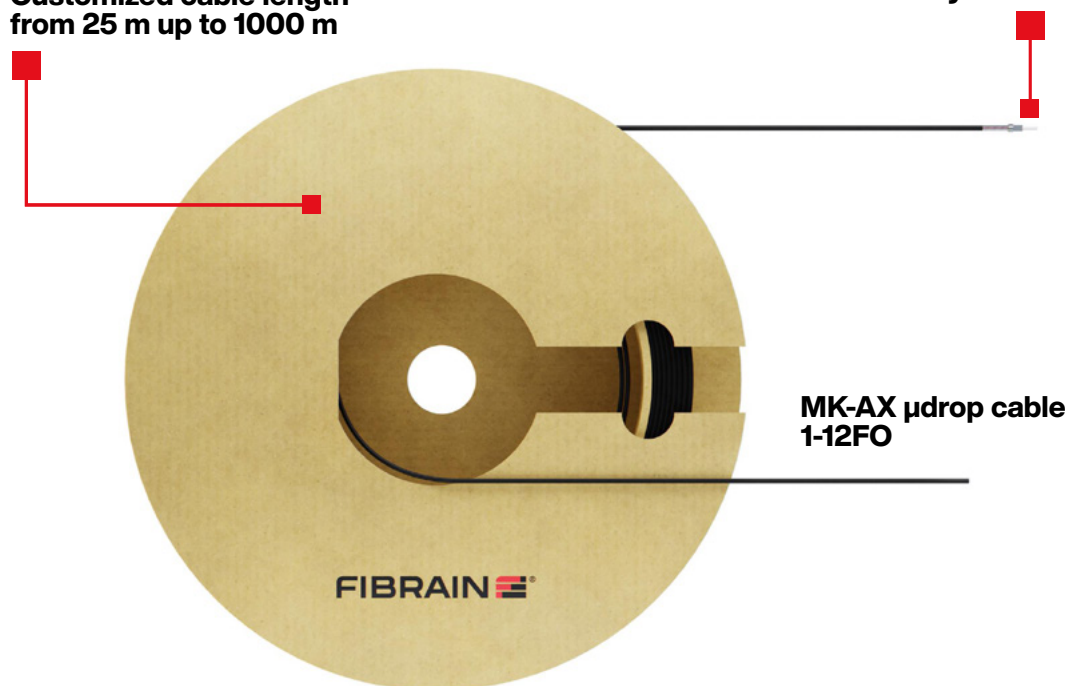
high quality ferrule achieves and maintains B grade – ensures best optical parameters



Construction

Customized cable length –
from 25 m up to 1000 m

LC APC
Easily Blown Ferrule



LC APC Connector Kit for pre-connectorized MK-AX cable



FIBRAIN MK-AX Cable Key features and benefits



Unique design ensuring
best blowing performance



Special jacket materials
providing low friction



High thermal stability



Low weight

MK-AX

Last mile connection µdrop cable



1. Outer jacket
2. Central tube
3. Optical fibre
4. Mechanical fiber (for 1FO version)

APPLICATIONS

**Installation by blowing
FTTH & last mile connection**

DESIGN

UV stabilized polyolefin jacket with low coefficient of friction
Water tight central tube with optical fibres
Small outer diameter for blowing into 5/3,5mm duct
Mechanical fibre fillers can be used

CABLE TYPE	FIBRES [pcs]	Ø NOMINAL (±5%) [mm]	NOMINAL WEIGHT (±10%) [kg/km]	MAX ALLOWED TENSION [N]
MK-AX	1	1.1	1,0	10
	2	1.1	1,0	10
	4	1.1	1,0	10
	8	1.4	1,6	20
	12	1.6	1,6	70

Technical and environmental cable characteristics

TEST	SPECIFICATION	CONDITIONS	REQUIREMENTS
Tensile strength	IEC60794-1-21 Method E1	Short term load [MAT]: as provided in the table	Fibre strain: ≤0,6%, Δα≤0,1 dB/km reversible
Torsion	IEC60794-1-21 Method E7	Cable length: 1m No. of cycles: 10 Twist angle: ± 180° Load: 5N	Δα ≤ 0.1dB, reversible No jacket cracking and fibre breakage
Bending	IEC60794-1-21 Method E11	Radius: 20xD No. of turns: 4	Δα ≤ 0.1dB, reversible No jacket cracking and fibre breakage
Temperature range	IEC60794-1-22 Method F1	Installation:	Δα≤0,1 dB/km, reversible
		Operation:	
		Transport & Storage:	
Water Penetration	IEC60794-1-22 Method F5B	Water head: 1m, Time: 24h, Length: 1m	No water leakage

(*) values for single-mode fibres, all optical measurements performed at 1550nm

Technical specification of pre-connectorized MK-AX terminated with LC APC ferrules

PARAMETER	VALUE	STANDARD
Insertion Loss Grade	Grade B	PN-EN IEC 61753-1
Insertion Loss IL97%	≤ 0.25 dB	IEC 61300-3-34
Insertion Loss IL _{mean}	≤ 0.12 dB	IEC 61300-3-34
Return Loss RL	APC SM ≥ 65 dB	IEC 61300-3-6
Mating durability	ΔIL < 0.2dB/500 cycles	IEC 61300-2-2
Retention force	>15N	IEC 61300-2-4
Blowing range	up to over 1000m	Internal test
Cable drum capacity	up to 1000m of MK-AX pre-connectorized cable	Internal test

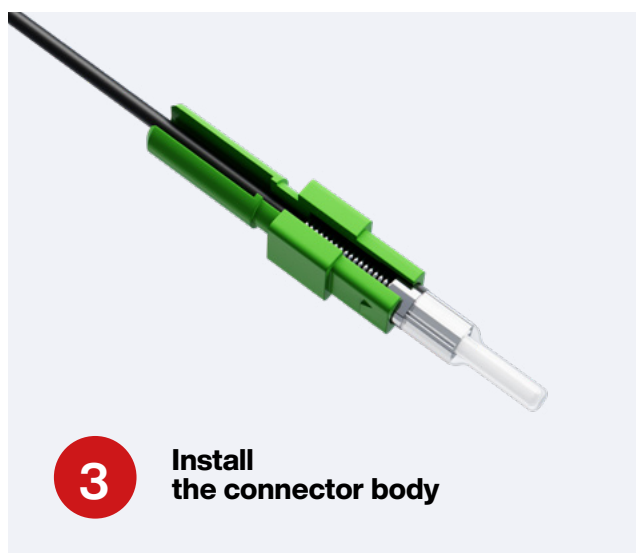
Cable installation guide



1 Blow the cable kit into microduct systems



2 Put the connector boot on the cable



3 Install the connector body



4 Remove the protection dust cover and install the connector housing



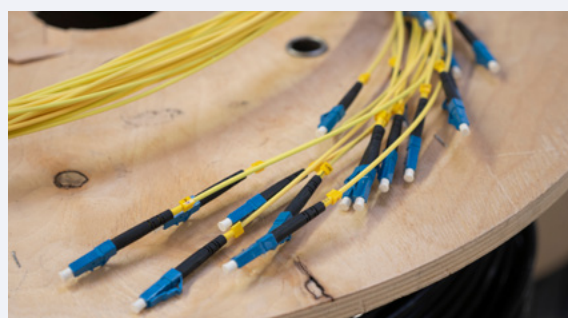
5 Install the connector boot on the connector body



Polish independent producer of integrated and value-added solutions.



Meet us → www.fibrain.com



FIBRAIN 

From a single fiber to millions of satisfied customers around the world



FIBRAIN POLAND

36-062 Zaczernie 190F

phone: (+48) 17 866 08 00

phone: (+48) 17 866 08 13

fax: (+48) 17 866 08 11

e-mail: info@fibrain.com

www.fibrain.com