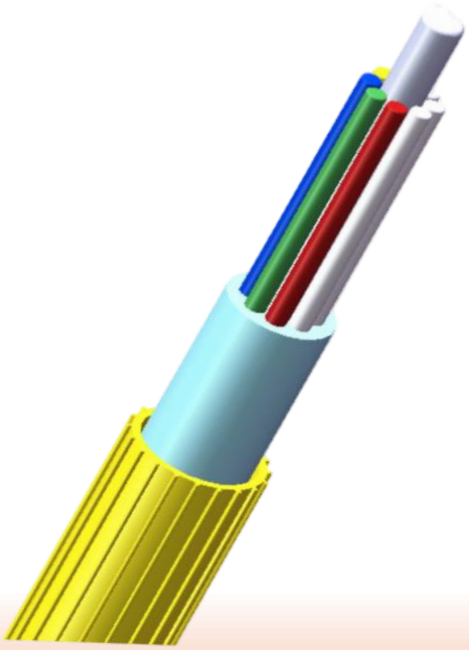
FCST Communication

Better FTTx, Better Life.



August, 2025

Technical Information

FCST-FU-XB1.3

Hand Push Air Blown Fiber Unit

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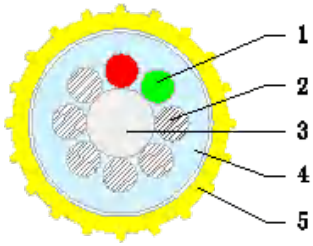
FCST-FU-XB1.3 Hand Push Air Blown Fiber Unit

The optical cable is an all-non-metallic structure, lightweight and has a certain rigidity, and is suitable for being pushed or air-blown into φ5/3.5mm microtubes; It can be easily pushed into100m long pipe with hand.The fibers are coated with a soft acrylate layer as a cushion to provide protection to the fiber. The HDPE jacket gives low friction and best blowing performance to the installation.



1. Optical Fibre
2. Filled Fibre
3. GFRP
4. Resin
5. Low Friction outer jacket

- 2-8 fiber options.
- Can be easily pushed into100m long pipe
- Designed with no gel, easy stripping and handling.
- Lightweight and proper stiffness , repeat installation.
- Better costs advantage compared to traditional product.
- Designed with special grooves to advance blowing distance.
- Complete accessories, less manpower, lower installation time.
- Stable structure, good mechanical and temperature performance.

Fiber Color Code:

No.	1	2	3	4	5	6	7	8
	Red	Green	Blue	Yellow	White	Grey	Brown	Violet

Other color code can be ordered by prior notice.

Product Specifications

Construction	Description
Fiber Count	2-8 fibers G.657A1
Out Diameter	1.7mm(±0.03mm)
Weigth	2.5g/m
Min Bend Radius	120mm
Jacket Color	Yellow
Attenuation	0.40db/km max@1310nm | 0.30db/km max@1550nm
Packaging Info.	2000m **/CNT 11KG 0.064CBM (560*560*200mm)**
	4000m **/CNT 17KG 0.095CBM (560*560*300mm)**
	Standard delivery lengths are: 1000m, 2000m, 4000m with a tolerance of 0～+5%.

Mechanical Test

Note ：1 Tests according to IEC 60794 Edition 1.0, 2008-10 2 All optical testing proceeded at 1550 nm

Tension	Bend	Crush
IEC 60794-1-21-E1	IEC 60794-1-21-E11A	IEC 60794-1-21-E3
Load: 1xW	φ40mm*3turns 5 cycles at 20℃	100N，60S
Fiber strain ≤0.4 at MAX，	Additional attenuation ≤0.05dB	Additional attenuation ≤0.05dB
Additional attenuation ≤0.05dB		
Fiber strain 0.05% after test		

Environmental Test

Note ：1 Tests according to IEC 60794 Edition 1.0, 2008-10 2 All optical testing proceeded at 1550 nm

Temperature cycling	**Water Soak**	**Damp Heat Cycle**
IEC 60794-1-22-F1	IEC 60794-5	IEC 60068-2-38
-30℃, +60℃,(2 cycles)	1000 hours in water,18℃~22℃	25℃, 65℃, 25℃, 65℃,
Absolute attenuation 0.5dB/km, during test	(Test after temp cycle) 0.07dB/km	25℃,-10℃, 25℃
Absolute attenuation 0.1dB/km, after test	Change compared to start value	Absolute attenuation 0.5dB/km, during test
		Absolute attenuation 0.1dB/km,after test

Blowing Test

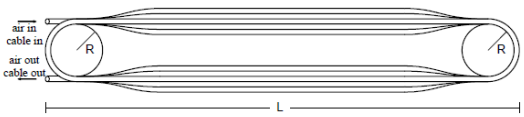
Fiber Count 2-8fibers

Test equipment	Manual pushing
Equipment:PLUMETTAZ：UM25, ERICSSON：F,Fremco	**Standard duct:**5/3.5 mm
Standard duct:5/3.5 mm	**Typical distance:**100m
Pressure:10-13bar	
Typical blowing distance:500m	
Typical blowing time:15 min	

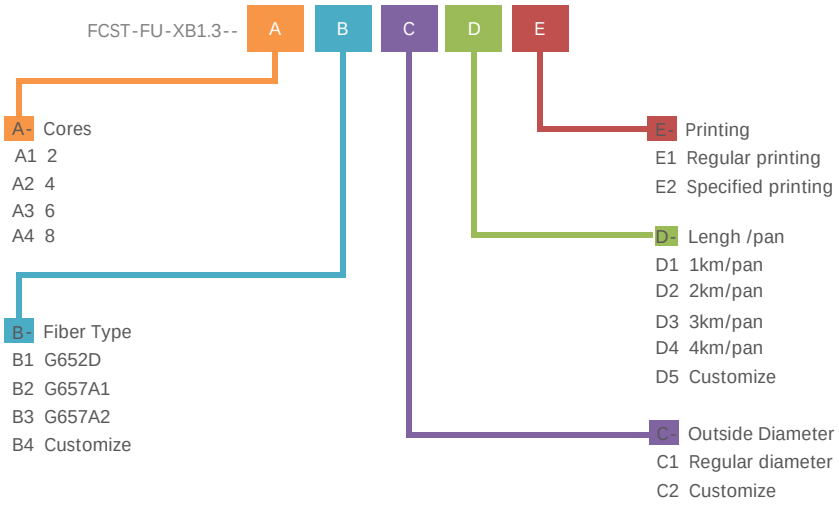
Standard: IEC 60794-1-21-E24

Micro duct φ 5/3.5mm，500m（L=100m，R=100mm）

Recommended blowing speed: 30～45m/min



OrderingInformation



*Note: The specified model is determined based on optional configurations. For example: FCST-FU-XB1.3--A1-B1-C1-D1-E1.

Related Products

Telecom Manhole Chamber

Divisible Duct Sealing-40~63mm(HT)

Micro Duct Connector

Fiber Blowing Machines

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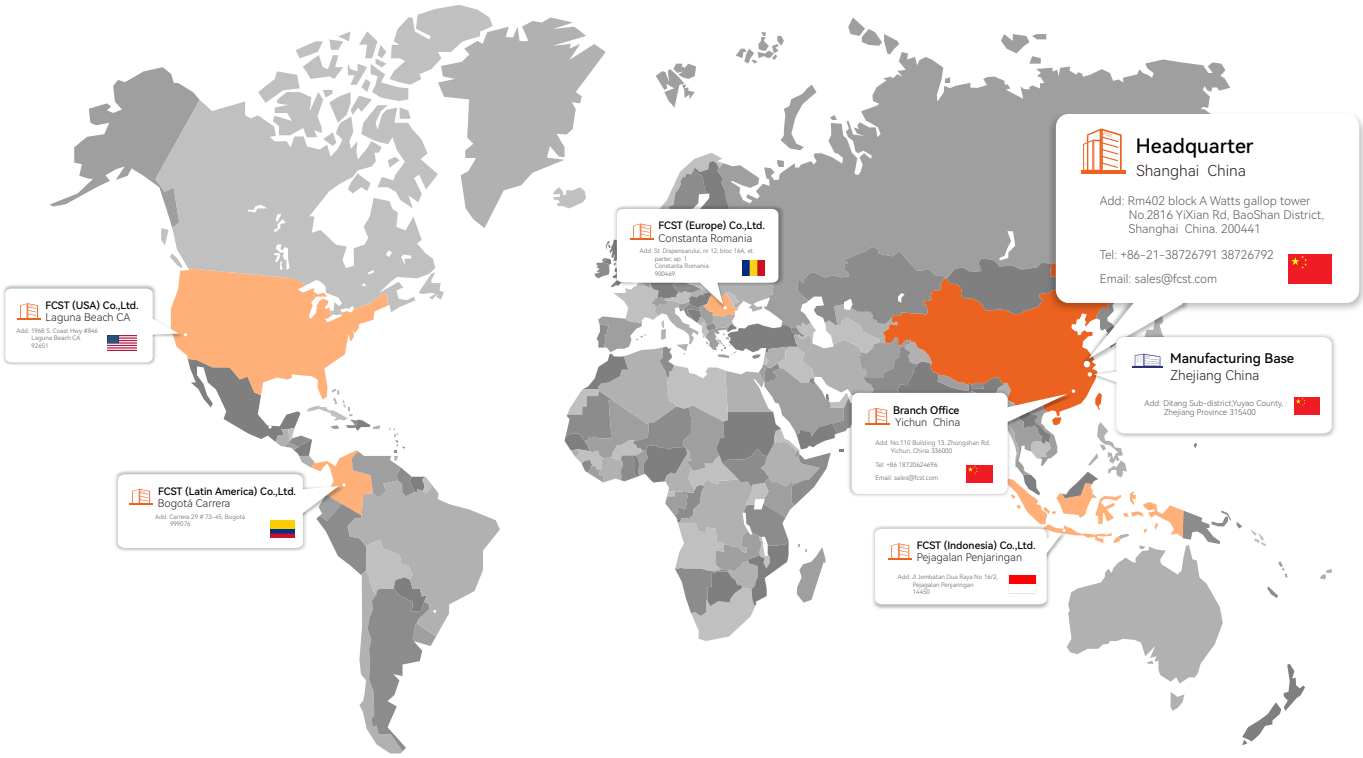
Fiber Cable Solution Technology Co.,Ltd.



FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durabili-ty.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicat-ed to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

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