



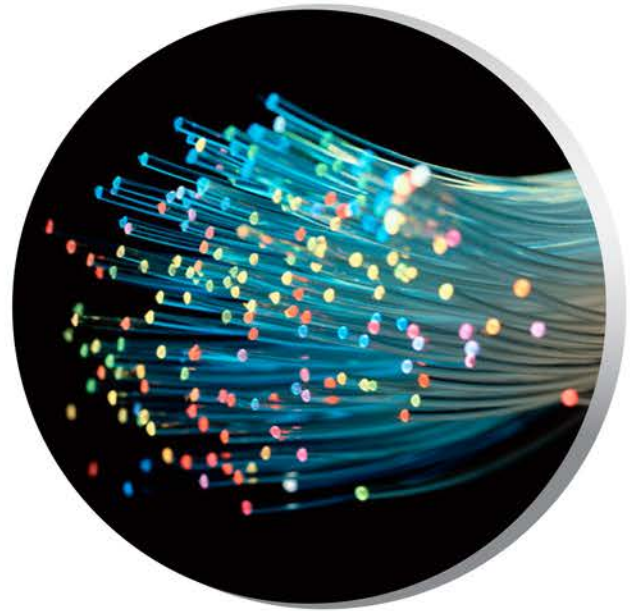
FIBER AIR BLOWN  
SOLUTION 

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# **CATALOG**

## **AIR BLOWN FIBER & MICRO DUCTS**

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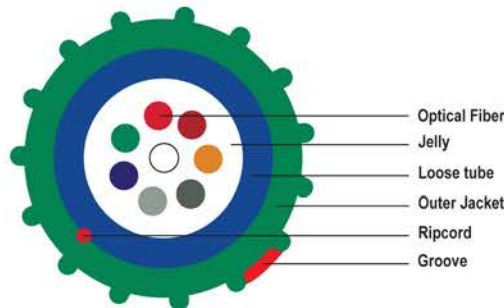
# MICRO AIR BLOWN, FIBER CABLE

## FIBER AIR BLOWN SOLUTION



- Easy to upgrade
- Low weight
- Cost efficient
- Great blowing distance
- Operation temperature -40°C to + 70°C

### CABLE STRUCTURE



### SPECIFICATION

P/N	Fiber Count (F)	Nominal diameter (mm)	Nominal weight (kg/km)	Min. bend radius		Max. Tensile Strength (Newton, N)
				Dynamic	Static	
FBC2-9002	2	2.0 ± 0.1	4	20 x Cable diameter	10 x Cable diameter	40
FBC2-9004	4	2.0 ± 0.1	4			40
FBC2-9006	6	2.3 ± 0.1	5			50
FBC2-9008	8	2.3 ± 0.1	5			50
FBC2-9012	12	2.5 ± 0.1	6			60
FBC2-9024	24	2.8 ± 0.1	7			60

### BLOWING PERFORMANCE

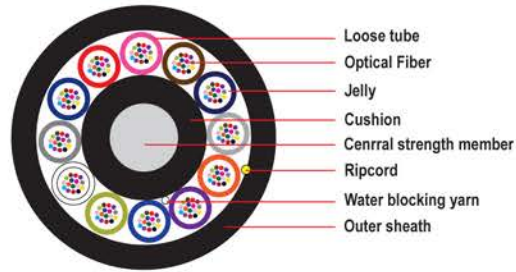
Fiber Count (F)	Blowing machine	Suitable microduct (mm)	Blowing pressure (bar)	Blowing distance (m)
2 to 12	PLUMETTAZ PR-140	5/3.5 or 7/5.5	13	800/1500
14 to 24	MiniJet-400	5/3.5 or 7/5.5		500/1500

## STRANDED MICRO AIR BLOWN, FIBER CABLE

## FIBER AIR BLOWN SOLUTION



### CABLE STRUCTURE



### FEATURES AND BENEFITS

- Optimum cable structure, high fiber density.
- Accurate fiber length balance, ensure stable performance.
- No gel in cable core for water blocking, low carbon and environmental.
- Structure Innovation in sheath, enhancing the blowing Performance.

### STANDARDS

Unless otherwise specified in this specification, all requirements shall be mainly in accordance with the following standard specifications.

- Optical fiber.....ITU-T G.652D, IEC 60793-2-50
- Optical cable.....IEC 60794-5, IEC 60794-1-2

### SPECIFICATION

P/N	Fiber Count (F)	Nominal diameter (mm)	Nominal weight (kg/km)	Min.bend radius		Min.bend radius (mm)
				Dynamic	Static	
FBC4-9012	12	5.2 ±0.1	26	20 x Cable diameter	15 x Cable diameter	127
FBC4-9024	24	5.2 ±0.1	26			127
FBC4-9036	36	5.2 ±0.1	26			127
FBC4-9048	48	5.2 ±0.1	26			127
FBC4-9060	60	5.2 ±0.1	26			127
FBC4-9072	72	5.2 ±0.1	26			127
FBC4-9096	96	6.2 ±0.1	36			176
FBC4-9120	120	7.9 ±0.1	58			284
FBC4-9144	144	7.9 ±0.1	58			284
FBC4-9192	192	8.0 ±0.1	62			303
FBC4-9216	216	8.0 ±0.1	62	303		
FBC4-9288	288	9.3 ±0.1	89	436		

### BLOWING PERFORMANCE

Fiber Count (F)	Blowing machine	Suitable microduct (mm)	Blowing pressure (bar)	Blowing distance (m)
12 to 72	PLUMETTAZ PR-140 MiniJet-400	10/8 or 12/10	15	1800/2300
96		10/8 or 12/10		1800/2300
144		12/10		1200
192 to 216		12/10		1500
288		14/12		1500

## HDPE Silicon Duct

## FIBER AIR BLOWN SOLUTION



### PRODUCT DESCRIPTION

High-density polyethylene tubes with smooth inner wall to reduce friction



### Pre-laid cable Duct (PCD)

High-density polyethylene tubes with smooth inner wall to reduce friction.

PCD is abbreviation of Pre-laid Cable Duct, which means that at the same time when the duct is extruded.

### Advantages:

1. There is no trouble in the effective distance of cable blowing any more and saves the charge of cable blowing; on the construction site it does not need blowing machine, compressor and cable laying teams, etc any more.
2. Greatly shorten the construction period, the trench disposal is simpler and the problem in terrain limit gets solved, ie, the duct placement and cable laying can be done at the same time as long as to put the PCD into the excavated trench and backfill.
3. Reduce the cost of projects, including saving the ocean freight of duct and cable, and construction.

### TECHNICAL SPECIFICATION (nominal unless otherwise stated)

P/N	O.D. (mm)	I.D. (mm)	Wall Thickness (mm)	SDR	Nom. Mass (kg/km)	Min Bend Rad. (mm)	Max. Pull	
							kg	N
FBDO-2015	20	15	2.5	8.0	131	400	248	2480
FBDO-2016	20	16	2.0	10.0	109	400	200	2000
FBDO-2520	25	20	2.5	10.0	169	500	320	3200
FBDO-3226	32	26	3.0	10.7	261	640	500	5000
FBDO-3227	32	27	2.5	12.8	222	640	400	4000
FBDO-4033	40	33	3.5	11.4	384	800	800	8000
FBDO-4638	46	38	4.0	11.5	506	920	1000	10000
FBDO-5041	50	41	4.5	11.1	616	1000	1200	12000
FBDO-5042	50	42	4.0	12.5	554	1000	1200	12000

### HDPE Micro Duct / Primary tube



#### PRODUCT DESCRIPTION

Single high density polyethylene tube is with smooth inner wall to reduce the friction for maximum fiber blowing distance. HDPE micro Duct does not contain dangerous chemicals in accordance to the Directive 2006/1907/EC (REACH). HDPE Tube Bundle meets requirements of Directive 2002/95/ED (RoHS).

#### TECHNICAL SPECIFICATION (nominal unless otherwise stated)

P/N	O.D. (mm)	I.D. (mm)	Wall Thickness (mm)	SDR	Nom. Mass (kg/km)	Min Bend Rad. (mm)	Max. Pull	
							kg	N
FBDI-0535	5.0	3.5	0.75	6.7	10	60	18	180
FBDI-0735	7.0	3.5	1.75	4.0	28	84	32	520
FBDI-0806	8.0	6.0	1.0	8.0	22	96	38.5	385
FBDI-1006	10.0	6.0	2.0	6.0	49	120	90	900
FBDI-1008	10.0	8.0	1.0	10.0	28	120	51	510
FBDI-1208	12.0	8.0	2.0	6.0	61	144	112	1120
FBDI-1210	12.0	10.0	1.0	12.0	34	144	62	620
FBDI-1410	14.0	10.0	2.0	7.0	73	168	135	1350
FBDI-1415	14.0	11.5	1.25	11.2	49	168	90	900
FBDI-1612	16.0	12.0	2.0	8.0	84	192	158	1580

#### DRUM LENGTH

O.D. (mm)	Drum Length					
	500m	1000m	1500m	2000m	3000m	4000m
5.0	✓	✓	✓	✓	✓	✓
7.0	✓	✓	✓	✓	✓	-
8.0	✓	✓	✓	✓	✓	-
10.0	✓	✓	✓	✓	✓	-
12.0	✓	✓	✓	✓	✓	-
14.0	✓	✓	✓	✓	-	-
16.0	✓	✓	✓	✓	-	-

#### Available in 12 colors:



## HDPE Bundled Micro Ducts, Direct Installation

## FIBER AIR BLOWN SOLUTION



### PRODUCT DESCRIPTION

Developed to be the best solution of the non - metallic modular - tubes family, dedicated to installations in existing ducts or cable trays. A bundle of micro - or mini - tubes (regular wall size) is surrounded by a HDPE sheath. Easy access to the microducts is guaranteed due to the thin sheath, which is not attached to the microducts. The HDPE (High-density Polyethylene) outer sheath is UV-resistant.

### TECHNICAL SPECIFICATION (nominal unless otherwise stated)

P/N	Description	Microduct Size	Drum Length (m)	Nom. Weight per KM (kg)	Bundle O.D. (mm)	Min Bend Radius (mm)	Max.Pull (N)
FBD2-0535-02	2DI	5/3.5mm	2000	64	13.4*8.4	168	620
FBD2-0535-04	4DI	5/3.5mm	2000	111	15.5	320	1080
FBD2-0535-07	7DI	5/3.5mm	2000	155	18.4	380	1520
FBD2-0535-12	12DI	5/3.5mm	2000	233	23.7	480	2280
FBD2-0535-19	19DI	5/3.5mm	1000	327	28.4	580	3200
FBD2-0535-24	24DI	5/3.5mm	1000	431	33.4	680	4200
FBD2-0535-26	26DI	5/3.5mm	1000	466	35.4	720	4560
FBD2-0806-04	4DI	8/6mm	2000	196	22.8	480	1920
FBD2-0806-07	7DI	8/6mm	2000	285	27.4	560	2800
FBD2-0806-12	12DI	8/6mm	2000	438	35.8	720	4200
FBD2-1008-02	2DI	10/8mm	2000	150	23.4*13.4	280	1450
FBD2-1008-04	4DI	10/8mm	2000	248	27.5	560	2400
FBD2-1008-07	7DI	10/8mm	2000	365	33.4	680	3500
FBD2-1210-02	2DI	12/10mm	2000	177	27.4*15.4	320	1720
FBD2-1210-04	4DI	12/10mm	2000	293	32.4	660	2800
FBD2-1210-07	7DI	12/10mm	2000	432	39.4	800	4200

Remark : LINK provide the design for customer's requirement

## HDPE Bundled Thick Micro Ducts, Direct Burial

## FIBER AIR BLOWN SOLUTION



### PRODUCT DESCRIPTION

A bundle of micro - or mini - tubes (regular wall size) is surrounded by single thin HDPE sheath. The design makes the duct assemblies suitable for outdoor direct buried or other existing ducts or cable trays. The microducts are optimized for best cable blowing performance.

### TECHNICAL SPECIFICATION (nominal unless otherwise stated)

P/N	Description	Microduct Size	Drum Length (m)	Nom. Weight per KM (kg)	Bundle O.D. (mm)	Min Bend Radius (mm)	Max. Pull (N)
FBD3-0735-02	2DB	7/3.5mm	2000	102	16.4*9.4	180	1000
FBD3-0735-04	4DB	7/3.5mm	2000	174	16.4*16.4	320	1700
FBD3-0735-07	7DB	7/3.5mm	2000	274	23.4	460	2680
FBD3-0735-12	12DB	7/3.5mm	1000	438	30.4	600	4300
FBD3-0805-02	2DB	8/5mm	2000	112	18.4*10.4	180	1000
FBD3-0805-04	4DB	8/5mm	2000	190	18.4*18.4	360	1850
FBD3-0805-07	7DB	8/5mm	2000	315	26.4	520	3000
FBD3-1208-02	2DB	12/8mm	2000	197	26.4*14.4	280	1920
FBD3-1208-04	4DB	12/8mm	2000	347	26.4*26.4	520	3400
FBD3-1208-07	7DB	12/8mm	1000	557	38.4	760	5460
FBD3-1410-02	2DB	14/10mm	2000	235	30.4*8.4	320	2200
FBD3-1410-04	4DB	14/10mm	2000	415	30.4*30.4	660	4000
FBD3-1410-07	7DB	14/10mm	1000	670	44.4	880	6580
FBD3-2016-04	4DB	20/16mm	1000	604	42.4*42.4	840	6000

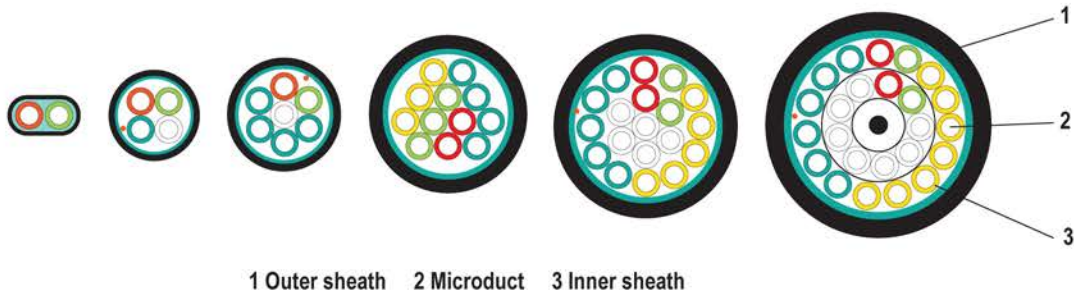
Remark : LINK provide the design for customer's requirement

## DUAL HDPE Bundled Micro Duct, Direct Burial

FIBER AIR BLOWN  
SOLUTION



- Easy installation
- Direct burial, install & LSZH
- Environment friendly
- Symmetrical wall thickness
- Perfect blowing performance



### SPECIFICATION

P/N	Microduct diameter (mm)	Bundle diameter (mm)	Nominal weight (kg/km)	Max pull strength (N)	Drum length (m)
FBD4-0535-02	5/3.5	16.0*11.0	121	1300	2000
FBD4-0535-04	5/3.5	18.9	199	2150	2000
FBD4-0535-07	5/3.5	21.8	258	2780	2000
FBD4-0535-12	5/3.5	27.1	362	3900	2000
FBD4-0535-19	5/3.5	31.8	480	5180	1000
FBD4-0535-24	5/3.5	36.8	611	6580	1000
FBD4-0535-26	5/3.5	38.8	656	7080	1000
FBD4-0806-04	8/6	26.2	321	3460	2000
FBD4-0806-07	8/6	30.8	434	4680	2000
FBD4-0806-12	8/6	39.2	630	6800	2000
FBD4-1008-02	10/8	26.8*16.8	260	2800	2000
FBD4-1008-04	10/8	30.9	397	4280	2000
FBD4-1008-07	10/8	36.8	545	5880	2000
FBD4-1210-02	12/10	30.8*18.8	304	3280	2000
FBD4-1210-04	12/10	35.8	468	5000	2000
FBD4-1210-07	12/10	42.8	641	7000	2000

Remark : LINK provide the design for customer's requirement



# FLAT MICRO DUCTS

# FIBER AIR BLOWN SOLUTION



## PRODUCT DESCRIPTION

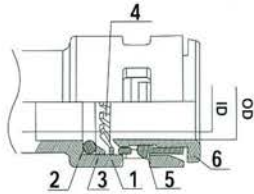
A bundle of micro - or mini - tubes (regular wall size) is surrounded by single thin HDPE sheath. The design makes the duct assemblies suitable for outdoor direct buried or other existing ducts or cable trays. The microducts are optimized for best cable blowing performance.

## TECHNICAL SPECIFICATION (nominal unless otherwise stated)

P/N	Description	Microduct Size	Drum Length (m)	Nom. Weight per KM (kg)	Bundle O.D. (mm)	Min Bend Radius (mm)	Max.Pull (N)
FBD5-0735-4	4FLAT	7/3.5mm	2000	190	30.4*9.8	200	1800
FBD5-1006-4	4FLAT	10/6mm	2000	305	42.4*-12.4	260	3000
FBD5-1208-2	2FLAT	12/8mm	2000	197	26.4*-14.4	300	1950
FBD5-1208-3	3FLAT	12/8mm	2000	286	38.4*-14.4	300	2880
FBD5-1208-4	4FLAT	12/8mm	2000	374	50.4*-14.4	300	3660
FBD5-1410-2	2FLAT	14/10mm	2000	235	30.4*-16.4	320	2350
FBD5-1410-3	3FLAT	14/10mm	2000	342	44.4*-16.4	320	3350
FBD5-1410-4	4FLAT	14/10mm	2000	448	58.4*-16.4	340	4400

## MICRODUCT CONNECTOR

## FIBER AIR BLOWN SOLUTION



OD : Duct Out Diameter  
ID : Duct Inner Diameter



### INTRODUCTION

LINK Air Blown Microduct Connectors are applied in optical fiber communications systems which to help seal and protect microduct and fiber optic cable. The connectors are one hundred percent designed for our microducts with high quality.

### KEY FEATURES

- RoHS qualified
- Solvents resistance
- Stress cracking resistance
- High pressure resistance
- Endurance life
- 100% matched with microduct
- High sealing ability
- Watertight & gastight
- Easy installation

### MATERIAL

- Body : Polycarbonate
- Seal : NBR
- Washer : Polyacetal
- Lock Claws : SUS
- Collar : Polyacetal
- Sleeve : Polyacetal

### CONNECTOR TYPES

- Straight : Connect microducts with same diameter
- Reducer : Connect microducts with different diameter
- End Stop : Seal microducts end
- Gas Block : Seal and prevent gas leaked

### SPECIFICATION

P/N	Connector name	Microduct OD/ID (mm)	P/N	Connector name	Microduct OD/ID (mm)
FBF1-0535	Straight connector	5/3.5	FBF3-EN05	End Stop connector	5
FBF1-0735	Straight connector	7/3.5	FBF3-EN06	End Stop connector	6
FBF1-0806	Straight connector	8.5/6	FBF3-EN07	End Stop connector	7
FBF1-1008	Straight connector	10/8	FBF3-EN08	End Stop connector	8
FBF1-1208	Straight connector	12/8	FBF3-EN10	End Stop connector	10
FBF1-1210	Straight connector	12/10	FBF3-EN12	End Stop connector	12
FBF1-1410	Straight connector	14/10	FBF3-EN14	End Stop connector	14
FBF1-1412	Straight connector	14/12	FBF3-EN16	End Stop connector	16
FBF1-1612	Straight connector	16/12	FBF4-0535	Gas Block connector	5/3.5
FBF2-0755-0535	Reducer connector	7/5.5 to 5/3.5	FBF4-0755	Gas Block connector	7/5.5
FBF2-0806-0535	Reducer connector	8/6 to 5/3.5	FBF4-0806	Gas Block connector	8/6
FBF2-1008-0535	Reducer connector	10/8 to 5/3.5	FBF4-1008	Gas Block connector	10/8
FBF2-1008-0755	Reducer connector	10/8 to 7/5.5	FBF4-1210	Gas Block connector	12/10
FBF2-1210-0755	Reducer connector	12/10 to 7/5.5	FBF4-1410	Gas Block connector	14/10
FBF2-1210-1008	Reducer connector	12/10 to 10/8	FBF4-1612	Gas Block connector	16/12
FBF2-1412-1008	Reducer connector	14/12 to 10/8			
FBF2-1412-1210	Reducer connector	14/12 to 12/10			

### FBJ-1201 REPAIR COUPLING



Used to connect bundled microducts or several microducts or for repair work when the protective duct are damaged

- 40 mm. duct size
- 310 mm. length

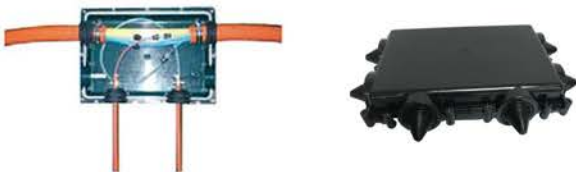
### FBJ-1203 "Y" BRANCH COUPLING



Used to connect and branch microducts which is widely used in direct-bury, manhole or aerial application

- FBJ-1203-40 : for Tube Bundle 40 mm.
- FBJ-1203-50 : for Tube Bundle 50 mm.

### FBJ-1206 TUBE DISTRIBUTION CLOSURE



Closure with 6 branches are convenient to plan the route, can be directly buried, manhole or aerial application

### FBJ-1210 RESERVED CONTAINER for Joint Box



Used to hold joint box and reserved microduct and microcable for branching or future maintenance in the manholes at splicing point

### FBJ-1215 RESERVED CONTAINER BOX



- Reserve micro cable and micro duct
  - Made of stainless steel 302
  - 504\*504\*120mm
1. Cut the micro duct and insert into the box and fix it.
  2. Insert the micro cable into duct, keep some for splicing, screw up the shackle, so that micro cable can be fixed and sealed.
  3. Screw up the Water barrier on the block connector, then screw up 1 / 4 circle when touched the micro cable in the duct, to avoid the damage of micro cable.
  4. Splice the micro cable fiber in the Reserve box.



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