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AIR BLOWN CABLE SOLUTION

IDEAL SOLUTION FOR MICRO DUCT

Micro design and excellent performance for network solutions

Taihan Fiberoptics Air blown cable solutions are designed to apply as high count fiber as possible to a limited micro duct space by applying a flexible micro tube with good stripping. The cables are designed with a stable structure can be applied to micro duct.

In particular, air blown cable applies a lightweight sheath design to enable reliable long-distance installation in micro duct.

Taihan fiberoptics offers customers a superior Air blown cable solution by reducing total project costs, and minimizing time and disruption.



NANO ABC



Description

Nano ABC is a cable designed based on the micro-module and is designed in a compact size and provides high efficiency when used in a duct. Micro tube is designed to be easily stripped, reducing installation time. Nano ABC contains from 2F to 24F optical per cable and it can be applied to the backbone and distribution access area networks with aerial, especially when installed by blowing into micro ducts, it provides excellent installation performance.

Applications



FTTH Networks



Last Mile



Micro duct

Features

- 2~12 or 24 fibers
- Easily removable without tools
- Outer Jacket with U.V protection
- Excellent installation performance

Standards & Certifications

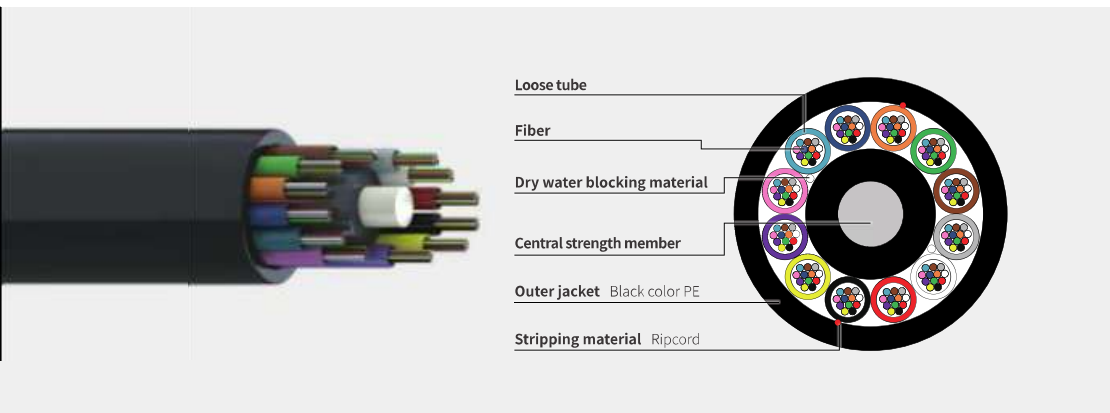
- [ITU-T G.657.A1(200um)]
- [IEC 60793, 60794-5-10]
- [ISO 9001, 14001]

Specification		
Fiber Count	2~12	24
Nominal Diameter (mm)	2.5	2.9
Nominal Weight (kg/km)	5	7
Fiber coloring (01-12)	Blue, Orange, Green, Red, Grey, Yellow, Brown, Violet, Black, White, Pink, Turquoise	
Tube coloring (01-04)	Blue, Orange, Green, Red	
Matched microduct I.D.(mm)	3.5 / 4.0 / 6.0	
Temperature range	Storage : -40°C to +70°C Installation : -5°C to +60°C Operation : -20°C to +70°C	
Min. bending radius	Installation : O.D x 20 Operation : O.D x 15	
Max. tensile strength	250N	
Crush (Reversible)	500N/10cm	

Fiber type			
Single-Mode fiber	Fiber standards	Wavelengths (nm)	Typical attenuation(dB/km)
ANYWAVE FLEX A1	G.657.A1 (200µm)	1310/1383/1550	0.36/0.36/0.25

► All Specification Can Be Customized

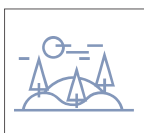
(200µm) (250µm) MINI MICRO ABC & MICRO ABC



Description

Taihan Fiberoptics MICRO ABC is your Ideal solution for FTTx networks. This cable is characterized by the state of the art installation performance when installed by blowing into micro ducts. All parameters(diameter, friction, etc)are minimized for best installation performance but fiber counts are maximized for best communication performance. We also offer micro ducts, boasted perfect compatibility with MICRO ABC.

Applications



Green/Brown Field



Backbone Networks



Micro duct

Features

- 12 Up to 864 fibers
- Super Slim Design with 200µm Fibers
- Excellent Performance with all Environment
- Temperature Range from -40°C to +70°C

Standards & Certifications

[ITU-T G.650. 657] [IEC 60793] [TIA-598]
[IEC 60794-5-10]
[ISO 9001, 14001] [OHSAS 18001]

Mini Micro ABC(200µm)		Specification						
Fiber count (F)	No.		Nom. O.D. (mm)	Nom. weight (kg/km)	Min. bending radius (mm)		Max. tensile strength (N)	Crush Resistance (N/100mm)
	Tubes	Fibers			Operatioin	Installation		
12~72	1~6	12	4.5	17	67.5	90	200	500
96	8	12	5.2	28	78	104	500	500
144	12	12	6.7	45	100.5	134	800	500
216	6+12	12	6.9	44	103.5	138	200	500
288	9+15	12	8	62	120	160	800	500
24~144	1~6	24	5.8	33	87	116	500	500
192	8	24	6.8	48	102	136	1,000	500
216	9	24	7.6	56	114	152	1,000	600
288	12	24	9.2	80	138	184	1,300	600
432	6+12	24	9.4	81	141	188	500	600
576	9+15	24	10.8	112	162	216	1,000	600

Micro ABC (250µm)		Specification						
Fiber count (F)	No.		Nom. O.D. (mm)	Nom. weight (kg/km)	Min. bending radius (mm)		Max. tensile strength (N)	Crush Resistance (N/100mm)
	Tubes	Fibers			Operatioin	Installation		
12~72	1~6	12	5.7	26	84	112	400	500
96	8	12	6.7	38	100.5	134	1,000	500
144	12	12	8.7	62	130.5	174	1,200	600
192~216	6+10~12	12	8.9	57	133.5	178	400	600
288	9+15	12	10.4	84	156	208	1,400	600
144	6	24	7.8	46	117	156	1,000	600
192	8	24	9.2	67	138	184	1,500	600
288	12	24	12.2	116	183	244	2,000	700
432	6+12	24	12.4	108	186	248	1,000	700
576	9+15	24	14.6	156	219	292	2,000	700

Temperature range

Operation -30°C to +70°C
Storage -30°C to +70°C
Installation -15°C to +40°C

Fiber type

Single-Mode fiber	Fiber standards	Wavelengths (nm)	Typical attenuation(dB/km)
ANYWAVE FLEXA1	G.657.A1	1310/1383/1550	0.36/0.36/0.25

► All Specification Can Be Customized

MICRODUCT MATCHING TABLE

Product	Total fiber	No.		Cable O.D (mm)	Micro Duct I.D (mm)								
		Tubes	Fibers		3.5	4	6	8	10	12	14	16	
Nano cable	2~12	1	2~12	2.5	○	○	○						
	24	1	24	2.9	○	○	○						
Mini Micro cable (200um)	72	6	12	4.5			○	○	○	○	○	○	○
	96	8	12	5.2				○	○	○	○	○	○
		4	24	5.8				○	○	○	○	○	○
	144	12	12	6.7					○	○	○	○	○
		6	24	5.8				○	○	○	○	○	○
	192	8	24	6.8					○	○	○	○	○
	216	6+12	12	6.9					○	○	○	○	○
		9	24	7.6					○	○	○	○	○
	288	9+15	12	8					○	○	○	○	○
		12	24	9.2						○	○	○	○
	432	6+12	24	9.4						○	○	○	○
	576	9+15	24	10.8							○	○	○
Micro cable (250um)	12~72	6	12	5.7				○	○	○	○	○	○
	96	8	12	6.7					○	○	○	○	○
	144	12	12	8.7						○	○	○	○
		6	24	7.8					○	○	○	○	○
	192	4+12	12	8.9						○	○	○	○
		8	24	9.2						○	○	○	○
	288	9+15	12	10.4							○	○	○
		12	24	12.2								○	○
432	6+12	24	12.4								○	○	

THICK WALLED DUCT

Description

THICK WALLED DUCT is designed for direct burial by having thicker inner tube. It has advantage for easy and fast termination with thin outer sheath. The thickness of each inner tube allows individual tubes to be used direct buried solution. This item is suitable for any construction sites such as open cut, Micro trenching, Mini trenching and HDD. This product is usually recommended to the site which requires fast and easy sheath cutting during fiber branch off from the FCP.



4/2.1mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	5.6	21	1,000	320
7way	13.6x12.5	92	2,000	40
12way	17.6x16.0	144	2,000	32
24way	25.6x19.5	263	1,000	32

7/3.5mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	9.0	52	2,000	104
2way	16.0x9.0	93	2,000	40
3way	16.0x15.1	128	2,000	32
4way	16.0x16.0	162	2,000	32
5way	23.0x15.1	195	2,000	24
6way	21.1x19.5	228	2,000	24
7way	23.0x21.1	258	2,000	21
12way	30.0x27.2	415	2,000	14
14way	37.0x21.1	485	2,000	14
19way	37.0x33.3	627	1,000	19
24way	44.0x33.3	777	1,000	14
24+1way	43.6x43.6	855	1,000	12

10/6mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	12.0	81	1,000	104
2way	22.0x12.0	149	2,000	32
3way	22.0x20.7	206	2,000	22
4way	22.0x22.0	264	2,000	21
5way	32.0x20.7	320	2,000	18
6way	29.4x27.0	374	2,000	14
7way	32.0x29.3	426	2,000	12

12/8mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	14.0	99	2,000	40
2way	26.0x14.0	182	2,000	24
3way	26.0x24.4	254	2,000	19
4way	26.0x26.0	325	2,000	18
5way	38.0x24.4	395	2,000	12
6way	34.8x32.0	463	2,000	12
7way	38.0x34.8	527	2,000	11



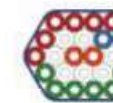
12 Way



14 Way



19 Way



24 Way



24 + 1 Way

DI-HS DUCT

Description

Direct Install High Strength duct is designed for installation duct and subduct. This product will be installed in the existing infrastructure with relatively high crush resistance. Even though it is solid product, it is very easy to bend or fix the tube inside of cabinet by having thin inner tube. It is also strong against lightning and electrical surge.



5/3.5mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	8.0	38	2,000	104
2way	13.0x8.0	62	2,000	88
4way	15.1	98	2,000	36
7way	18.0	139	2,000	32
12way	23.3	209	2,000	21
19way	27.3	293	2,000	18
24+1way	32.9	398	2,000	12
8/6mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	11.0	62	2,000	88
2way	19.0x11.0	106	2,000	33
4way	22.3	175	2,000	22
7way	27.0	257	2,000	18
12way	35.8	418	2,000	11
10/8mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	13.0	77	2,000	40
2way	23.0x13.0	132	2,000	30
4way	28.1	259	2,000	18
7way	34.2	383	2,000	12
12/10mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	15.0	91	2,000	36
2way	27.0x15.0	158	2,000	22
4way	33.0	310	2,000	12
7way	40.2	460	1,000	12



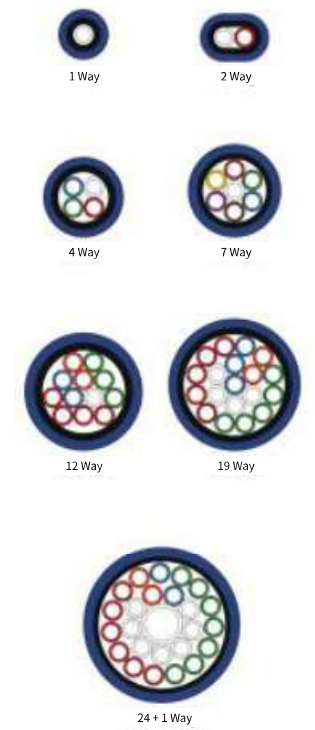
DB-HS DUCT

Description

Direct Bury High Strength duct is designed to endure harsh environment with high crush resistance. Even though it is solid product, it is very easy to bend or fix the tube inside of cabinet by having thin inner tube. The extra layer (total 2 layers of the outer sheath) is added to protect the thin wall of inner tube from external ground pressure. Moreover, it is very strong against lightning and electrical surge.



5/3.5mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	12.0	98	2,000	44
2way	17.0x12.0	140	2,000	36
4way	19.1	200	2,000	29
7way	22.0	259	2,000	22
12way	27.9	385	2,000	18
19way	31.9	496	2,000	12
24+1way	37.5	639	1,000	14
8/6mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	15.0	140	2,000	36
2way	23.0x15.0	214	2,000	24
4way	26.3	320	2,000	19
7way	31.0	431	2,000	13
12way	40.4	680	1,000	12
10/8mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	17.0	166	2,000	32
2way	27.0x17.0	259	2,000	21
4way	31.5	410	2,000	12
7way	38.2	599	2,000	10
12/10mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	19.0	193	2,000	29
2way	31.0x19.0	305	2,000	19
4way	36.4	486	2,000	11
7way	44.2	712	1,000	12



INDOOR APPLICATION LSZH

Description

Application requires the best quality of ducting pipe that can provide safety to the building. This method is the most appropriate for in-building infrastructure. Generally, the ducting pipe must comply with municipality and national authority standards and regulations on fire. The ducting pipe must be produced for retardant.



1 Way



2 Way



4 Way



7 Way



12 Way



19 Way



24 + 1 Way

5/3.5mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	7.0	42	2,000	180
2way	12.4x7.4	80	1,000	130
4way	12.4x12.4	125	2,000	40
7way	17.4x16.1	184	2,000	32
12way	22.4x20.4	278	2,000	22
19way	27.4x24.7	400	2,000	18
24+1way	32.0x32.0	533	1,000	21

10/8mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	12.4	105	1,000	104
2way	22.4x12.4	183	2,000	32
4way	22.4x22.4	301	2,000	21
7way	32.4x29.7	460	2,000	12

12/10mm	Nom. OD(mm)	Weight(kg/km)	Length/drum(m)	Number of drums in 40'
1way	14.4	120	1,000	96
2way	26.4x14.4	211	2,000	24
4way	26.4x26.4	348	2,000	18
7way	38.4x35.2	533	1,000	14

AERIAL APPLICATION

Description

As Aerial installation product , it can deploy cost effective network within a short time. It is very useful product and solution in case of installing existing telecommunication pole or power pole, if there is urgent construction due date and project owner cannot get road construction permit under special condition.



AERIAL FIGURE-8 DUCT

Description

The figure-8 self-supporting aerial microduct is used for conditions where microduct cannot be installed to underground such as rocky mountain area, stream crossing or road crossing area and the area where the existing pole exist with cost saving. This microduct has high UV resistance with black polyethylene sheath for outdoor use and their strength member is galvanized wire strand with high tensile strength to withstand severe load.





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THE HYPERCONNECTED SOCIETY**