



The Knet Air Blowing Cable series of micro cables are characterized by state of the art installation performance when installed by blowing into microducts. Particularly, installations in access networks with difficult routes, which are facilitated by the enhanced performance of the ABC cables.

All parameters such as cable diameter, sheath friction, cable stiffness etc. are optimized for best installation performance without compromising mechanical or environmental properties. The micro cables are based on a slim loose tube design with up to 36 tubes per cable.

The design facilitates fiber preparation and mid-span access. The cables are suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 8 to 11.7 mm. The cables have excellent bend performance and an extremely wide operational temperature range.



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## Micro Cables 200um

### High Performance Micro cable Super Slim ( Up to 864 fibers)



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#### Features

- Super slim design with 200um fibers
- Up to 864 fibers
- Excellent installation performance
- Unique design with robust inner tubes that do not kink
- Temperature range from -40 to +70°C (12-96f: -35 to +70°C)
- Excellent bend performance,  $\geq 30$  mm
- Easy to prepare and identify fibers



## Specification

ITEMS	DESCRIPTION		
Product Color	Black Sheath		
Color Code	TIA598		
Temperature, Operation [°C]	-40 to +70 (12-96f: -35 to +70)		
Temperature, Storage [°C]	-40 to +70		
Temperature, Installation [°C]	-15 to +50		
Water Blocking	Longitudinal water blocking according to IEC 60794-1-2-F5C		
Fiber Type	G.657A1		
Attenuation @Wavelength [nm]	1310	1383	1550
Typical Attenuation [dB/km]	0.32	0.32	0.19
Average Attenuation [dB/km]	0.33	0.33	0.21
Maximum Attenuation [dB/km]	0.36	0.36	0.23

## Conformance

- Longitudinal water blocking according to IEC 60794-1-2-F5C. Mechanical and environmental tests in accordance with IEC 60794-5-10. Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.

## Marking

- The cables are length marked in meters, and the tubes and fibers are color coded according to TIA598 (Bellcore).

## Installation Notes

Duct I/D (mm)	Cable O/D (mm)	Blowing Distance (m)
8-10	≤6.7 mm	2,000
12	≤8.0 mm	2,000
15-16	<11.0 mm	2,000
	11-12mm	1,500

- Installation performance verified on Knet test track, according to IEC 60794. Installation performance is affected by the installed path, environmental conditions, installation equipment etc. and actual performance may therefore deviate from the above specified values. If the cable is installed by blowing the temperature shall be -15 to +40°C. The cable shall not be stored in direct sunlight. The sun may heat up the cable over the permitted temperature limit.

Color Code Chart

TIA-598 Fibers and Tubes	1	2	3	4	5	6	7	8	9	10	11	12
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	13	14	15	16	17	18	19	20	21	22	23	24
	Blue	Orange	Green	Brown	Slate	White	Red	Clear	Yellow	Violet	Rose	Aqua

Product Information



- Primary coated fiber: Silica, acrylate
- Loose tube: PA
- Central strength member: Glass fiber reinforced plastic, PE
- Slit up yarn: Aramide yarn
- Wrapping: Water blocking yarns
- Sheath: Polyethylene, halogen-free

Black fillers can replace empty white tubes



## Cable Construction

Article	KVB-112/12C	KVB-212/24C	KVB-412/48C	KVB-612/72C	KVB-812/96C	KVB-624/144C	KVB-2412/288C	KVB-1824/432C	KVB-2424/576C	KVB-3624/864C
Color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
No. of Fiber	12	24	48	72	96	144	288	432	576	864
Layout	1x12	2X12	4X12	6X12	8X12	6X24	24X12	18X24	24X24	36x24
Band Radius	80	80	80	80	80	100	100	100	120	120
Tensile Force, Installation [N]	600	600	800	800	1500	1500	2000	2500	3800	4500
Crush [N 100mm]	1000	1000	1000	1000	1000	3000	2000	1500	1500	1800
Impact [J]	3	3	3	3	2	5	5	10	10	10
Diameter $\Phi$ [mm]	4.3	4.3	4.3	4.3	5.1	5.6	7.95	8.8	10.5	11.7
Weight [kg/km]	14	14	14	14	17	26	65	56	80	100
Length[m]	8000	8000	8000	8000	8000	8000	6000	6000	4000	4000

## Packing Information

K/E	K/E	Unit	Drum Structure	Plastic				Wood			
				K7	K8	K10	K12	K7	K8	K10	K12
A	Flange diameter, lugs excluded	mm		700	800	1000	1200	700	800	1000	1200
B	Drum barrel diameter	mm		325	375	500	630	325	375	500	630
C	Total width including bolts	mm		580	580	720	1002	576	576	715	980
D	Drum barrel width	mm		500	500	600	850	500	500	600	850
E	Spindle hole diameter	mm		75	75	107	107	75	75	406	106
F	Weight	kg		10	12.8	28	47	20	25	46	90

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