Raptor Nano Cable, Air Blown, Ultra Slim

Application

Hexatronic's high performance air blown nano cable will minimise initial investment and at the same time provide a future proof network that is easy to expand, upgrade and maintain. The main application areas are for fibre access networks such as fibre to the home (FTTH) and fibre to the antenna (FTTA).

The cable is intended for installation in microducts with an inner diameter performance is obtained with duct ID 4-10mm.

Features

- 24 fibre ultra slim cable for installation into microducts down to 3.5mm I.D
- Constructed from 200µm optical fibre
- Strong and durable design
- Smooth low friction sheath
- Excellent blowing performance
- Temperature range from -20 to +70°c
- Halogen free

Design

Hexatronic's air blown nano cable has a unique design that offers a combination of properties previously not available on the market. A sturdy fibre unit with state of the art fibre blowing performance increases the installation success rate and provides quick and problem free installation.

The cable is available with single mode bend resistant G657A1 fibre.

Typical Data

Temperature Range
Operation……..…...-20 to +70°c
Storage…….-25 to +70°c
Handling……..…-15 to +60°c
Cable temp, blown installation…..……-15 to +40°c

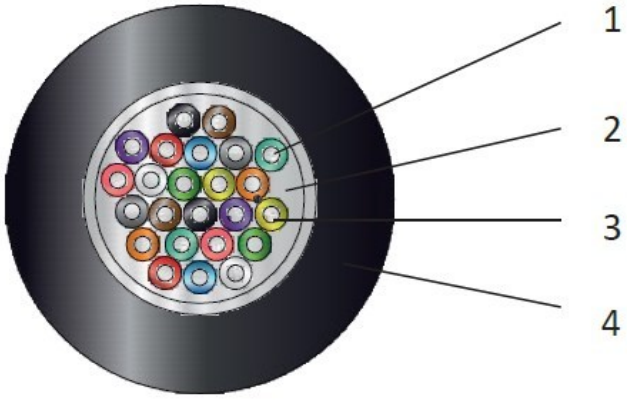
Bending Radius
Temporary (mm)……..……..>30mm
Single turn, permanent…….……>40mm

Mechanical Properties
Crush……IEC 60794-1-21 E3, 300N
Kink……...IEC 60794-1-21 E10, Pass
Impact……..……...IEC 60794-1-21, E4, 1J
Torsion……..……..IEC 60794-1-21 E7, Pass

Tensile Force
During installation……..……<50M
During operation……..……..<30N

Design

1. Primary coated fibre……...Silica acrylate
2. Filling……..Thixotropic gel
3. Loose tube…….Polycarbonate
4. Sheath……...Polyethylene halogen free



Transmission Characteristics and Key Fibre Data

Optical fibre type……..……...ITU G657A1, 200µm
Chromatic dispersion at 1550nm……<18ps/nm.km
Zero dispersion wavelength range…….1300-1234nm
Zero dispersion slope……..……...≤0.092ps/nm2.km
PMD individual fibre……..……..≤0.1ps/√km
PMD link value……≤0.06ps/√km
Cable cut off wavelength……..……..≤1260nm
MFD at 1310nm……..……...9.2 ± 0.4µm
MFD at 1550nm……10.4 ± 0.5µm
Cladding diameter……...125.0 ± 0.7µm
Coating diameter…….195 ± 10µm (Un-coloured)

Cabled Fibre Attenuation

Attenuation	@ 1310nm	@ 1550nm	@ 1625nm
Max	0.38dB/km	0.25dB/km	0.35dB/km

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Colour Code System

TIA-598	1	2	3	4	5	6	7	8	9	10	11	12
	BU	OG	GN	BR	SL	WH	RD	BL	YE	VT	RO	AQ
Fibers	13	14	15	16	17	18	19	20	21	22	23	24
	BU —	OG —	GN —	BR —	SL —	WH —	RD —	CL —	YE —	VT —	RO —	AQ —

Ordering Information

Part number	Description
CFNB-H4019072/24C-3	Nano Cable Ultra Slim 24f