



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.

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.

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

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

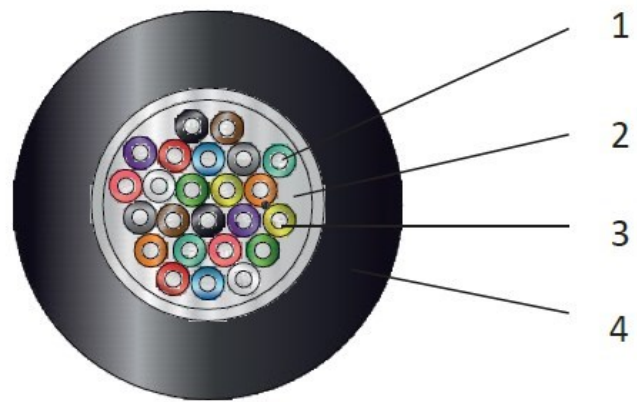
Crush.....IEC 60794-1-21 E3, 300N
 Kink.....IEC 60794-1-21 E10, Pass
 Impact.....IEC 60794-1-21, E4, 1J
 Torsion.....IEC 60794-1-21 E7, Pass

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



Cabled Fibre Attenuation

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

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)

Colour Code System

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

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