

## Micro Cable, Super Slim, 12f x 24 (288f) - Series 200

12f x 24 - 288 Fibers G.57A1, 200 µm



### Features

- 288 fibers
- Super slim design, diameter 7.95 mm
- Fits in microducts with an ID of  $\geq 10$  mm
- 200µm bend resistant G657A1 fibers
- 12 fibers per tube for easy installation
- Excellent installation performance
- Easy to prepare and identify fibers
- Extremely low optical attenuation

### Application

The Hexatronic 288f Micro Cable, series 200, is an ultra slim cable characterized by state of the art installation performance when installed by blowing into microducts.

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 cable is based on a slim loose tube design with 24 tubes and 12 fibers per tube. The design facilitates fiber preparation and mid-span access. The cable is suitable for long-distance, air blown installation in microducts, with an inner diameter of as little as 10 to 12 mm.

The cable has excellent bend performance and an extremely wide operational temperature range.

### Design

To enable installation into smallest possible microducts, the fiber Hexatronic Viper 200 series is designed with bend resistant G657A1 200 µm fibers.

12 fibers per tube also makes installations in many applications such as FTTH easier and quicker.



# Micro Cable, Super Slim 12f x 24 (288f) – The Viper Series 200

## Typical Data

Temperature range  
 Operation,  $\Delta\alpha \leq 0.1$  dB/Km  
 .....-30 to +70°C

Storage .....-40 to +70°C  
 Handling .....-15 to +50°C  
 Cable temperature, blown installation  
 .....-15 to +40°C

Bending radius  
 Cable bend radius, permanent  
 ¼ turn/ single turn/ multiple turns  
 .....  $\geq 40/ 50/ 100$  mm

Tensile force  
 During installation/ operation  
 .....  $\leq 2000/ 75$  N

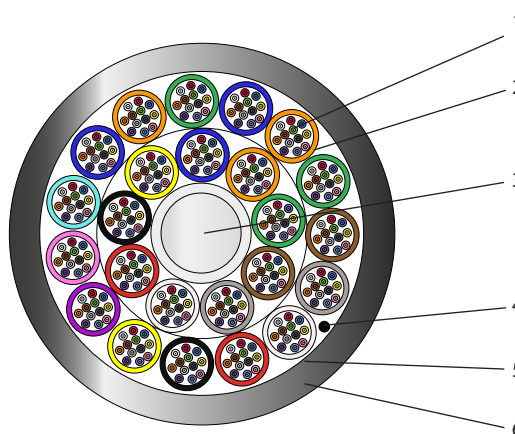
Crush resistance ( $\Delta\alpha \leq 0.05$  dB after test, no damage)  
 .....  $\leq 1000$  N/100 mm

Impact ( $\Delta\alpha \leq 0.05$  dB after test, no damage)  
 .....3 J

Cable weight  
 .....65 kg/km

## Design

1. Primary coated fiber..... Silica, acrylate
2. Loose tube ..... Thermoplastic
3. Central strength member ..... Glass fiber reinforced plastic, PE
4. Slit up yarn ..... Aramide yarn
5. Wrapping..... Water blocking yarns
6. Sheath..... HDPE, halogen-free



## Typical installation performance\*

Ducts, inner diameter 12 mm  
 .....2000 m

\* Installation performance verified on Hexatronic 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.

## Delivery Information

Supplied lengths .....2, 4, 6, 8 km

The cable is length water blocking according to IEC 60794-1-2-F5B.  
 Mechanical and environmental test in accordance with IEC 60794-5-10  
 Fiber parameters and tests according to the IEC series 60793-2 and 60793-1  
 The cable shall not be stored in direct sun light.  
 The sun may heat up the cable over the permitted temperature limit

## Transmission Characteristics, G657A1

Attenuation	@ 1310nm	@ 1383nm	@ 1550nm
Typical	0.32dB/km	0.32dB/km	0.18dB/km
Max	0.36dB/km	0.36dB/km	0.23dB/km

## Color Code Systems

	1	2	3	4	5	6	7	8	9	10	11	12
S12	RD	BU	WH	GN	YE	SL	BR	BL	VT	OG	AQ	RO
Fibers and Tubes	RD	BU	WH	GN	YE	SL	BN	CL	VT	OR	CY	RO
TIA-598	BU	OG	GN	BR	SL	WH	RD	BL	YE	VT	RO	AQ
Fibers and Tubes	BU	OG	GN	BR	SL	WH	RD	CL	YE	VT	RO	AQ

The above chart is a quick reference guide for identification of fibers and tubes in the most common cable designs.  
 For detailed information about the color code systems, please contact Hexatronic.

## Ordering Information

Product No.	Product Name	Tubes/Fibers		Diameter	Weight	For Microducts ID
		No.	Color Code	ø (mm)	kg/km	ø (mm)
TOL4019038/288AH	Micro Cable 288f G657A1, 12f x 24, 200 µm S12	24 x12 (288f)	S12	7.95	65	10 - 12
TOL4019038/288C	Micro Cable 288f G657A1, 12f x 24, 200 µm TIA598	24x12 (288f)	TIA598	7.95	65	10 - 12