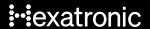


High Performance Micro Cable – Super Slim

12-864 fibers G657A1 200 µm TIA598

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, ≥30 mm
- Easy to prepare and identify fibers



Application

The Hexatronic Viper 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 Viper cables. All parameters such as cable diameter, sheath friction, cable stiffness etc are optimized for best installation performance without compromizing 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 8 to 16 mm, depending on fiber count. The cables have excellent bend performance and an extremely wide operational temperature range.

Design

The Micro Cables are designed with one, two or three layers of inner protective tubes made of a unique compound. The compound gives a special strength to the product, while increasing the bending properties as well as other benefits such as extreme temperature resistance.

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



Product Information





1 Primary coated fiber: Silica, acrylate

2 Loose tube: PA

3 Central strength member: Glass fiber reinforced plastic, PE

4 Slit up yarn: Aramide yarn

5 Wrapping: Water blocking yarns6 Sheath: Polyethylene, halogen-free

Black fillers can replace empty white tubes.

Technical Information

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 G657A1

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 Fiber parameters and tests according to the IEC series

60793-2 and 60793-1.

Mechanical and environmental tests in accordance with

Family Specification IEC 60794-5-10.

Test standards, conditions and requirements:

 Operational temperature: IEC 60794-1-22 Method F1; max attenuation 0.10dB/km*

Storage temperature: IEC 60794-1-22 Method F1; max attenuation 0.15dB/km* reversible

Ageing: IEC 60794-1-22, Method F9; 168h@85°C,+2 cycles, no attenuation after test

Water blocking: IEC 60794-1-2, Method F5C, 3m sample, 1m head of water, no leakage after 24 hours

Bend radius: IEC 60794-1-21, Method E11B; 4 turns, 3 cycles, max attenuation 0.05dB*

Installation tensile load: IEC 60794-1-21, Method E1; max fiber tension 0.6%, reversible attenuation

Crush: IEC 60794-1-21, Method E3; 1 minute load, 100mm plate, no attenuation after test

Impact: IEC 60794-1-21, Method E4; 3 different places, max attenuation 0.1dB* after test

* All attenuation measurements performed @ 1550nm

The cables are length marked in meters, and the tubes and

fibers are color coded according to TIA598 (Bellcore).

Marking



Installation Notes

Typical installation performance:

- Ducts ID 8-10 mm, cable OD ≤6.7 mm: 2000 m
- Ducts ID 12 mm, cable OD ≤8.0 mm: 2000 m
- Ducts ID 15-16 mm, cable OD <11 mm: 2000 m, cable
 OD 11-12 mm: 1500 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.

The cable should be installed at a temperature between -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.

Ordering Information

Supplied lengths: 2, 4, 8 km

Technical Details



TIA 598 Color Code Chart



Articles 13

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Article name	0	4		•		<u> </u>		•	4.	•
GNHL 12/T12 G657A1 200um TIA598 TOL4019038/12C	Black	12	1x12	80	600	1000	3	4.3	14	2000/K7, 4000/K7, 6000/K8, 8000/K8
GNHL 24/T12 G657A1 200um TIA598 TOL4019038/24C	Black	24	2x12	80	600	1000	3	4.3	14	2000/K7, 4000/K7, 6000/K8, 8000/K8
GNHL 48/T12 G657A1 200um TIA598 TOL4019038/48C	Black	48	4x12	80	800	1000	3	4.3	14	2000/K7, 4000/K7, 6000/K8, 8000/K8
GNHL 72/T12 G657A1 200um TIA598 TOL4019038/72C	Black	72	6x12	80	800	1000	3	4.3	14	2000/K7, 4000/K7, 6000/K8, 8000/K8
GNHL 96/T12 G657A1 200um TIA598 TOL4019038/96C	Black	96	8x12	80	1500	1000	2	5.1	17	2000/K7, 4000/K7, 6000/K10, 8000/K10
GNHL 144/T24 G657A1 200um TIA598 TOL4019035/144C	Black	144	6x24	100	1500	3000	5	5.6	26	2000/K7, 4000/K8, 6000/K10, 8000/K10
GNHL 192/T24 G657A1 200um TIA598 TOL4019035/192C	Black	192	8x24	100	2000	3000	5	6.7	38	2000/K7, 4000/K10, 6000/K10, 8000/K12
GNHL 288/T24 G657A1 200um TIA598 TOL4019035/288C	Black	288	12x24	100	3000	3000	5	8.5	57	2000/K10, 4000/K12, 6000/K12
GNHL 288/T12 G657A1 200um TIA598 TOL4019038/288C	Black	288	24x12	100	2000	2000	5	7.95	65	2000/K8, 4000/K10, 6000/K12, 8000/K12
GNHL 432 G657A1 200um(18x24f) TIA598 TOL4019035/432C	Black	432	18x24	100	2500	_	_	8.8	56	2000/K10, 4000/K12, 6000/K12
GNHL 576 G657A1 200um(24x24f) TIA598 TOL4019035/576C	Black	576	24x24	120	3800	_	-	10.5	80	2000/K10, 4000/K12
GNHL 864/T24 G657A1 200um TIA598 TOL4019035/864C	Black	864	36x24	120	4500	1800	-	11.7	100	2000/K10, 4000/K12



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GNHL 288/T12 G657A1 200um TIA598 TOL4019098/288C	Black	288	24x12	100	2000	1500	5	7.5	47	2000/K8, 4000/K10, 6000/K12, 8000/K12	