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High Performance Micro Cable – Super Slim

12-864 fibers G657A1 200 µm TIA598 ft

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 +158°F (12-96f: -31 to 158°F)
- Excellent bend performance
- Length marking in feet

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 yarns
- 6 Sheath: Polyethylene, halogen-free

Black fillers can replace empty white tubes.

Technical Information

Product Color	Black Sheath
Color Code	TIA598
Temperature, Operation [°F]	-40 to +158 (12-96f: -31 to 158)
Temperature, Storage [°F]	-40 to +158
Temperature, Installation [°F]	+5 to +122
Water Blocking	Longitudinal water blocking according to IEC 60794-1-2-F5C

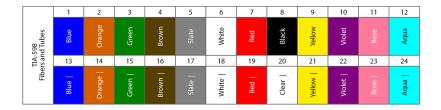
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Fiber Type	G657A1
Attenuation @Wavelength [nm]	1310/1383/1550
Typical Attenuation [dB/km]	0.32/0.32/0.19
Average Attenuation [dB/km]	0.33/0.33/0.21
Maximum Attenuation [dB/km]	0.36/0.36/0.23
Conformance	Fiber parameters and tests according to the IEC 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
Marking	The cables are length marked in meters, and the tubes and fibers are color coded according to TIA598 (Bellcore). Length marking in ft.

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Installation Notes	Typical installation performance:
	Ducts ID 8-10 mm, cable OD ≤6.7 mm: 2000 m (6560ft)
	Ducts ID 12 mm, cable OD ≤8.0 mm: 2000 m (6560ft)
	 Ducts ID 15-16 mm, cable OD <11 mm: 2000 m (6560ft), cable OD 11-12 mm: 1500 m (4920ft)
	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 (5 to 104°F). 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



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SNHL 12/T12 G657A1 200um TIA598, ft 'OL4019038/12CF	Black	12	1x12	3.2	135	225	4.3	9	2000m/K7, 4000m/K7, 6000m/K8, 8000m/K8	
SNHL 24/T12 G657A1 200um TIA598, ft 'OL4019038/24CF	Black	24	2x12	3.2	135	225	4.3	9	2000m/K7, 4000m/K7, 6000m/K8, 8000m/K8	
NHL 48/T12 G657A1 200um TIA598, ft OL4019038/48CF	Black	48	4x12	3.2	180	225	4.3	9	2000m/K7, 4000m/K7, 6000m/K8, 8000m/K8	
NHL 72/T12 G657A1 200um TIA598, ft OL4019038/72CF	Black	72	6x12	3.2	180	225	4.3	9	2000m/K7, 4000m/K7, 6000m/K8, 8000m/K8	
SNHL 96/T12 G657A1 200um TIA598, ft OL4019038/96CF	Black	96	8x12	3.2	335	225	5.1	12	2000m/K7, 4000m/K7, 6000m/K10, 8000m/K10	
NHL 144/T24 G657A1 200um TIA598, ft DL4019035/144CF	Black	144	6x24	4.0	335	670	5.6	18	2000m/K7, 4000m/K8, 6000m/K10, 8000m/K10	
HL 192/T24 G657A1 200um TIA598, ft DL4019035/192CF	Black	192	8x24	4.0	450	670	6.7	26	2000m/K7, 4000m/K10, 6000m/K10, 8000m/K12	
VHL 288 G657A1 200um(12x24f) TIA598 ft DL4019035/288CF	Black	288	12x24	4.0	675	670	8.5	38	2000m/K10, 4000m/K12, 6000m/K12	
NHL 288 G657A1 200um (24x12F) TIA598, ft DL4019038/288CF	Black	288	24x12	4.0	450	450	7.95	44	2000m/K8, 4000m/K10, 6000m/K12, 8000m/K12	
NHL 432 G657A1 200um(18x24f) TIA598 ft OL4019035/432CF	Black	432	18x24	4.0	550	-	8.8	38	2000m/K10, 4000m/K12, 6000m/K12	
NHL 576 G657A1 200um(24x24f) TIA598 ft OL4019035/576CF	Black	576	24x24	4.7	850	-	10.5	54	2000/K10, 4000/K12	
GNHL 864 G657A1 200um (36x24f) TIA598 ft FOL4019035/864CF	Black	864	36x24	4.7	1000	-	11.7	67	2000m/K10, 4000m/K12	