



High Performance Nano Cable

2-12 fibers G657A1 TIA598

Features

- Slim design for installation into microducts down to 3.5mm inner diameter
- Installation by blowing or pushing
- Extra strong and durable, with integrated strength member
- Smooth, low-friction jacket - Extra wide operational temperature range
- Excellent installation performance
- Temperature range from -45 to +70°C
- Halogen-free

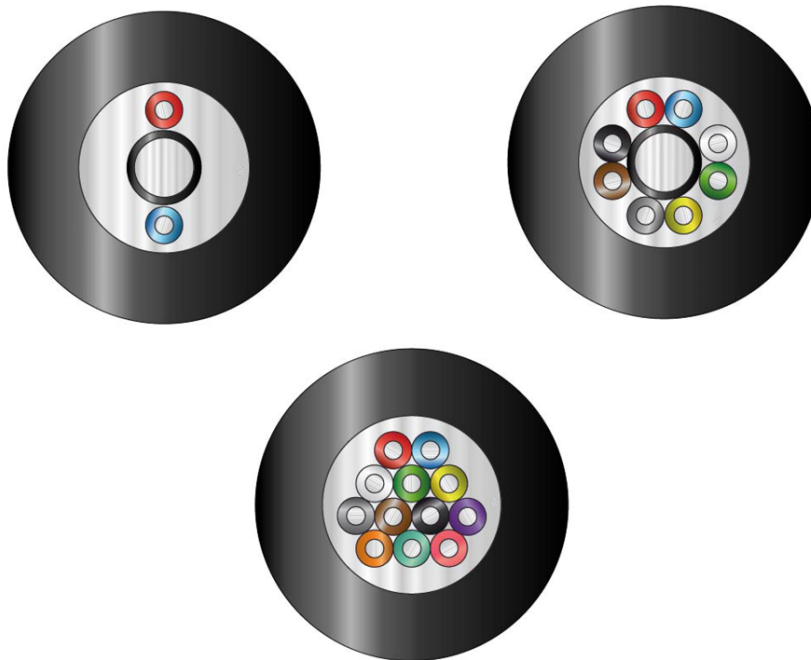
Application

The Hexatronic Raptor is a high performance Air Blown Nano Cable that will minimize 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 fiber access networks such as Fiber To The Home (FTTH) and Fiber To The Antenna (FTTA). The cable is intended for installation in microducts with an inner diameter from 3.5mm up to 12mm.

Design

The Hexatronic Air Blown Nano Cable has a unique design that offers a combination of properties previously not available on the market. A sturdy fiber unit with state of the art fiber blowing performance increases the installation success rate and provides quick and problem free installation. With the integrated strength member, the cable is ideal for both blowing and pushing. The strength member also adds increased stability and robustness to the cable. The cable is available with single mode bend resistant G657A1.

Product Information



1. Primary coated fiber: Silica, acrylate
2. Buffer: UV-cured polymer layer
3. Strength member: Coated glass fiber reinforced plastic
4. Sheath: Low friction thermoplastic
5. Ripcord: Polyester yarn

Technical Information

Product Color	Black Sheath
Color Code	TIA598
Temperature, Operation [°C]	-45 to +70
Temperature, Storage [°C]	-45 to +70
Temperature, Installation [°C]	-20 to +60
Fiber Type	G657A1
Attenuation @Wavelength [nm]	1310/1383/1550
Average Attenuation [dB/km]	0.36/0.36/0.22
Maximum Attenuation [dB/km]	0.38/0.38/0.25
Conformance	Fiber parameters and tests according to the IEC series 60793-2 and 60793-1. Mechanical and environmental tests in accordance with IEC 60794-1-21 and IEC 60794-1-22. Test standards, conditions and requirements: • Operational temperature: IEC 60794-1-22 Method F1; max attenuation 0.05dB/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 • 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 • Operation tensile load: IEC 60794-1-21, Method E1; max fiber tension 0.2%, max attenuation 0.05dB/km* • Crush: IEC 60794-1-21, Method E3; 1 minute load, 100mm plate, no attenuation after test * All attenuation measurements performed @ 1550nm
Marking	Example of jacket marking, 1 time/meter: HEXATRONIC A35 yymmddhh TOL4019050/8C GAHL-K-DHR 8/A8 G657A1 TIA598 xxxxx m" where yymmddhh = year, month, day and hour of manufacture, xxxxx=running meter marking.
Installation Notes	The cable is intended for installation in microducts with an inner diameter from 3.5mm up to 12mm. 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: 1, 2 and 4 km

Technical Details

TIA-598 Fibers and Tubes	1	2	3	4	5	6	7	8	9	10	11	12
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	13	14	15	16	17	18	19	20	21	22	23	24
	Blue	Orange	Green	Brown	Slate	White	Red	Clear	Yellow	Violet	Rose	Aqua

TIA 598 Color Code Chart

Items 5

Item Name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg/km]	Length [m]
GAHL 2/A2 G657A1 TIA598 TOL4019050/2C	Black	2	1x2	25	80	50	1000	2.0	4.3	4000
GAHL 4/A4 G657A1 TIA598 TOL4019050/4C	Black	4	1x4	25	80	50	1000	2.0	5	4000, 2000
GAHL 6/A6 G657A1 TIA598 TOL4019050/6C	Black	6	1x6	25	80	50	1000	2.0	5	4000
GAHL 8/A8 G657A1 TIA598 TOL4019050/8C	Black	8	1x8	25	80	50	1000	2.0	6.5	4000
GAL-K-DHR 12/A12 G657A1 TIA598 TOL4019050/12C	Black	12	1x12	35	50	30	1000	2.1	8	4000