

# High Performance Universal Micro Cable, Rodent Repellant

12-144 fibers G657A1 TIA598 ft, RodRep

## **Features**

- Up to 144 fibers
- Super slim design
- Rodent repellant sheath, non-toxic
- Excellent installation performance
- Robust design for duct installation in ground or lashed aerial
- Other challenging applications such as façade deployment etc.
- Unique design with robust inner tubes that do not kink
- Temperature range from -40 to +70°C in operation
- Excellent bend performance, ≥100 mm
- Easy to prepare and identify fibers



## Application

The Hexatronic micro cables are characterized by state of the art installation performance when installed by blowing into microducts. This more robust product is designed to also be used in aerial installation by lashing.

All parameters such as cable diameter, sheath friction, cable stiffness, extra robust jacket 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 24 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 12 to 16 mm. The cables have excellent bend performance and an extremely wide operational temperature range.

# Design

The Micro Cables are designed with one layer of inner protective tubes made of a unique Polyamide compound. The Polyamide gives a special strength to the product, while increasing the bending properties as well as other benefits such as extreme temperature resistance. Each tube contains 12 or 24 fibers. As a result, The Micro Cables are more durable during the installation process as they are able to withstand rough handling. The unique cable design with an extended operational temperature range of -40 to +70°C can be used in many environments, on all continents where heat and cold are often a major concern.

The cables have a unique rodent repellant sheath that contains no metal, aramide or glass yarn. It is 100% non toxic and does not poison humans or rodents. Fully in line with REACH and RoHS directives

## **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 Rodent repellant 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

Temperature, Storage [°F] -49 to +158

Temperature, Installation [°F] +5 to +122

Water Blocking Longitudinal water blocking according to IEC 60794-1-2-F5C

Fiber Type G657A1

Attenuation @Wavelength [nm] 1310/1550

Typical Attenuation [dB/km] 0.32/0.18

Average Attenuation [dB/km] 0.33/0.21

Maximum Attenuation [dB/km] 0.36/0.23

Conformance Longitudinal water blocking according to IEC 60794-1-2-

F5C. Mechanical and environmental tests in accordance with IEC 60794-5-10. Fiber parameters and tests according

to the IEC series 60793-2 and 60793-1.

Max allowed tension during operation according to IEC 60794–1-21-E1: fiber  $\leq$  0.2%, and attenuation increase  $\leq$ 

0.05 dB/km

Max allowed tension during installation according to IEC

60794–1-21-E1: fiber ≤ 0.6%

**Marking** The cables are length marked in feet, and the tubes and

fibers are color coded according to TIA598 (Bellcore).



#### **Technical Notes**

The anti rodent additive is a low-cost, metal-free and non-poison solution used to minimize problems with rodents in normal European conditions. However, it does not give a 100% protection in all situations. Even though the functionality of the additive is thoroughly tested in standardized tests, there are always conditions that cannot be tested and verified.

Different species of rodents may react differently to the additive. The effectiveness can therefore not be guaranteed for all species and conditions. In environments with severe problems with rodents, we recommend additional means for extra protection of exposed duct and cable ends.

#### **Installation Notes**

Typical installation performance:

- Ducts ID 12 mm, cable OD ≤9.0 mm: 2000 m (6560ft)
- Ducts ID 14 mm, cable OD ≤10.50 mm: 2000 m (6560ft)
- Ducts ID 15-16 mm, cable OD <11 mm: 2000 m (6560ft),</li>
  cable OD 11-12 mm: 1500 m (4920ft)

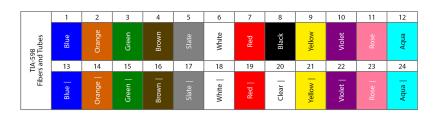
Installation performance verified on Hexatronic test track, according to IEC 60794. Installation performance is affected by the installed path, environmental conditions, installation equipment etc and actual performance may therefore deviate from the above specified values.

If the cable is installed by blowing the temperature shall be -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 (96 and 144f max length 6km)

## **Technical Details**





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GNHL 24 G657A1 (2x12f) TIA598 ft, RodRep TOL4019046/24UX	Black	24	2x12	4.0	180	450	7.7	32	8000/K12, 4000/K10, 2000/K8
<b>GNHL 48 G657A1 (4x12f) TIA598 ft, RodRep</b> TOL4019046/48UX	Black	48	4x12	4.0	180	450	7.7	32	8000/K12, 4000/K10, 2000/K8
<b>GNHL 72 G657A1 (6x12f) TIA598 ft, RodRep</b> TOL4019046/72UX	Black	72	6x12	4.0	250	450	7.7	32	8000/K12, 4000/K10, 2000/K8
<b>GNHL 96 G657A1 (8x12f) TIA598, RodRep</b> TOL4019046/96UX	Black	96	8x12	4.7	270	450	8.7	42	6000/K12, 4000/K12, 2000/K10
<b>GNHL 144 G657A1 (6x24f) TIA598, RodRep</b> TOL4019046/144UX	Black	144	6x24	4.7	360	450	8.9	43	6000/K12, 4000/K12, 2000/K10