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High Performance Micro Cable – Aerial Applications

GNHL 12-96 fibers G657A1 S12

Features

- Optimized for aerial duct installation
- Excellent installation performance
- Bend resistant G657A1 fibers
- Unique design with robust inner tubes that do not kink
- Temperature range from -40 to +70°C
- Easy to prepare and identify fibers
- Slim design for microducts down to 8mm
- Halogen-free
- Up to 96 fibers



Application

The aerial micro cable is a cable for installation into microducts mounted on pole lines (aerial installation). The cable is part of the Hexatronic Micro Cable System. The system is used for installing optical fibers in all types of metropolitan and rural access networks. The system provides an easy, cost-efficient rollout and maintenance, which creates the opportunity for increasing broadband penetration, with the capability to grow with user needs.

Design

The Micro Cables are designed with inner protective tubes made of a unique 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.

As a result, Hexatronic 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 factor.

The micro cable consists of up to 8 loose tubes with 12 fibers per tubes. This enables a fiber count from 12 to 96 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 S12

Temperature, Operation [°C] -40 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] 0.32/0.32/0.18

Average Attenuation [dB/km] 0.33/0.33/0.21

Maximum Attenuation [dB/km] 0.36/0.36/0.23

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.

Marking Example of sheath marking, 1 time/meter:

"HEXATRONIC A35 Viper Aerial yymmddhh

TOL4019029/96AH GNHL-U-CDGNRV 96/T12 G657A1 S12

xxxxx M"

where yymmddhh = year, month, day and hour of

manufacture, xxxxx=running meter marking.



Installation Notes

Typical installation performance:

deviate from the above specified values.

■ Ducts ID 8-10 mm, cable OD ≤6.7 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

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



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Article name	color	₩.	Fibers	it pend	Tene	Cure,	i L diam	neid	in Length
GNHL 12/T12 G657A1 S12 Aerial TOL4019029/12AH	Black	12	1x12	23	700	2000	5.7	28	8000/K10, 4000/K8
GNHL 24/T12 G657A1 S12 Aerial TOL4019029/24AH	Black	24	2x12	23	700	2000	5.7	28	8000/K10, 4000/K8
GNHL 48/T12 G657A1 S12 Aerial TOL4019029/48AH	Black	48	4x12	23	700	2000	5.7	28	8000/K10, 4000/K8
GNHL 72/T12 G657A1 S12 Aerial TOL4019029/72AH	Black	72	6x12	23	700	2000	5.7	28	8000/K10, 4000/K8
GNHL 96/T12 G657A1 S12 Aerial TOL4019029/96AH	Black	96	8x12	23	700	2000	6.7	39	4000/K10, 8000/K12