

# Micro Cable

#### GNHL 12-144 fibers G652D StdE

### **Features**

- Up to 144 fibers
- Super slim design or microducts down to 8mm
- Excellent installation performance
- Unique design with robust inner tubes
- Temperature range from -40 to +70°C
- Excellent bend performance, ≥30mm
- Easy to prepare and identify fibers
- Halogen-free



# Application

The cable is a fiber optic micro cable for duct installation into microducts with an inner diameter of down to 8mm (12-72 fibers) or 10mm (96-144 fibers). The cable is part of the Hexatronic Micro Cable System. The system is used for installing optical fibers in all types of metropolitan, rural access networks and in the backbone network. 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 polymer 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.

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. Micro cables from 12- to 144 fibers consist of up to 12 loose tubes with 12 fibers per tubes

### **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 STDE

**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 G652D

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

F5B.

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 yymmddhh TOL4019017/96A GNHLDV 96

G.652.D xxxxx m"

where yymmddhh = year, month, day and hour of manufacture, xxxx=running meter 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</p>

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**



StdE Color Code Chart

# Articles 7

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Article name	EL-No.	Color	100	, 1340c	Benc	Tens	Cing	<b>Diam</b>	1/eig	Lens
<b>GNHLDV 12 G652D (1x12f)</b> TOL4019017/12A	1031700	Black	12	1x12	75	800	2000	5.7	28	4000/K8
GN+LDV 24 G652D (2x12f) TOL4019017/24A	1031701	Black	24	2x12	75	800	2000	5.7	28	24000/H16 NZ, 12000/H16 NZ, 4000/K8, 8000/K10
<b>GNHLDV 36 G652D (3x12f)</b> TOL4019017/36A		Black	36	3x12	75	800	2000	5.7	28	24000/H16 NZ, 12000/H16 NZ, 4000/K8, 8000/K10
<b>GNHLDV 48 G652D (4x12f)</b> TOL4019017/48A		Black	48	4x12	75	800	2000	5.7	28	24000/H16 NZ, 12000/H16 NZ, 4000/K8, 8000/K10
<b>GNHLDV 72 G652D (6x12f)</b> TOL4019017/72A	1031704	Black	72	6x12	75	800	2000	5.7	28	4000/K8, 24000/H16 NZ, 12000/H16 NZ, 8000/K10
<b>GNHLDV 96 G652D (8x12f)</b> TOL4019017/96A		Black	96	8x12	90	1100	2000	6.7	39	12000/K14, 4000/K10, 8000/K12
<b>GNHLDV 144 G652D (12x12f)</b> TOL4019017/144A	1031706	Black	144	12x12	100	2500	2000	8.3	60	8000/FLYWOOD, 4000/K10