

# Flame Retardant Slim Indoor Cable – Slim

**GNHQ 12-96 fibers G657A2 Eca StdE**

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## Features

- Up to 96 fibers
- Super slim design
- Excellent installation performance
- Unique design with robust inner tubes that does not kink
- Temperature range from -40 to +70°C
- Easy to prepare and identify fibers
- Indoor, flame retardant
- Bend resistant G657A2 fiber

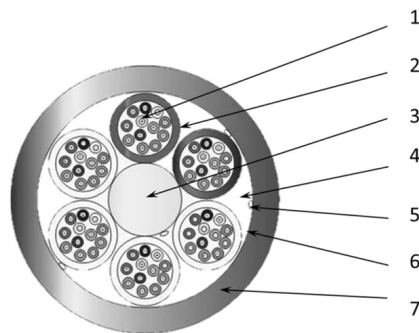
## Application

The cable is a fiber optic micro cable for indoor installation. Typical applications are for installations in vertical risers for multi dwelling units in FTTH networks.

## Design

Micro cable based on a slim loose tube design with up to eight tubes per cable. The design facilitates fiber preparation and mid-span access. The cable contains bend-resistant G657A2 fibers that gives the cable excellent bend performance.

## Product Information



- 1 Primary coated fiber: Silica, acrylate
- 2 Loose tube: PA
- 3 Filling compound: Thixotropic gel
- 4 Central strength member: Glass fiber reinforced plastic
- 5 Slit up yarn: Aramide yarn
- 6 Water blocking elements (dry)
- 7 Outer sheath: Polyethylene, flame retardant, halogen-free

Black fillers can replace empty white tubes.

## Technical Information

<b>Product Color</b>	Yellow sheath
<b>Color Code</b>	STDE
<b>Temperature, Operation [°C]</b>	-40 to +70
<b>Temperature, Storage [°C]</b>	-40 to +70
<b>Temperature, Installation [°C]</b>	-15 to +50

<b>Water Blocking</b>	Longitudinal water blocking in accordance with IEC 60794-1-2-F5B.
<b>Reaction to Fire</b>	Flame resistance according to IEC 60332-3-24 and CE Eca EN50575:2014
<b>Fiber Type</b>	G657A2
<b>Attenuation @Wavelength [nm]</b>	1310/1550/1625
<b>Average Attenuation [dB/km]</b>	0.36/0.22/0.25
<b>Maximum Attenuation [dB/km]</b>	0.38/0.25/0.30
<b>Conformance</b>	<p>Longitudinal water blocking according to IEC 60794-1-2-F5B.</p> <p>Mechanical and environmental tests in accordance with IEC 60794-5-10.</p> <p>Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.</p>
<b>Marking</b>	<p>Example of sheath marking, 1 time/meter:</p> <p>“HEXATRONIC yymmddhh TOL4059013/zzA GNHQBDUV zz G.657.A2 xxx m”</p> <p>where yymmddhh= year, month, day and hour of manufacture, zzz=number of fibers in cable, xxx=running meter marking</p>
<b>Installation Notes</b>	<p>If the cable is installed by blowing the temperature shall be -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.</p>
<b>Ordering Information</b>	Supplied lengths: 2 or 4 km

## Technical Details

Std-E Fibers	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	White	Green	Yellow	Grey	Brown	Black	Orange	Violet	Pink	Turquoise
Std-E Tubes	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Blue	White	Green	Yellow	Grey	Brown	Clear	Orange	Violet	Pink	Turquoise
Std-E Tubes	1	2	3-6			7	8-16					
	Red	Blue	White			Blue	White					

StdE Color Code Chart

Articles 9

Article name	Color	Nb. of Fibers	Layout	Tensile Force	Installation [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg/km]	Length [m]
<b>GNHQ 12/T12 G657A2 STD</b> TOL4059013/12A	Yellow	12	1x12	800	2000	8.3	80	4000/K10	
<b>GNHQ 24/T12 G657A2 STD</b> TOL4059013/24A	Yellow	24	2x12	800	2000	8.3	80	4000/K10	
<b>GNHQ 48/T12 G657A2 STD</b> TOL4059013/48A	Yellow	48	4x12	800	2000	8.3	80	4000/K10	
<b>GNHQ 72/T12 G657A2 STD</b> TOL4059013/72A	Yellow	72	6x12	800	2000	8.3	80	4000/K10	
<b>GNHQ 96/T12 G657A2 STD</b> TOL4059013/96A	Yellow	96	8x12	1100	2000	8.6	80	4000/K10	
<b>GNHQ 12/T12 G657A2 STD</b> TOL4059014/12A	Green	12	1x12	800	2000	8.3	80	–	
<b>GNHQ 24/T12 G657A2 STD</b> TOL4059014/24A	Green	24	2x12	800	2000	–	80	–	
<b>GNHQ 48/T12 G657A2 STD</b> TOL4059014/48A	Green	48	4x12	800	2000	8.3	80	4000/K10	
<b>GNHQ 72/T12 G657A2 STD</b> TOL4059014/72A	Green	72	6x12	800	2000	8.3	80	–	