

Flame Retardant Indoor Cable – Slim

GNHQ 12-96 fibers G657A1 Eca StdE

Features

- Up to 96 fibers
- Excellent bend performance
- Excellent installation performance
- Easy to strip and identify fibers
- Very good temperature performance
- Length water blocked
- Halogen-free flame retardant
- G657A1 bend resistant fiber

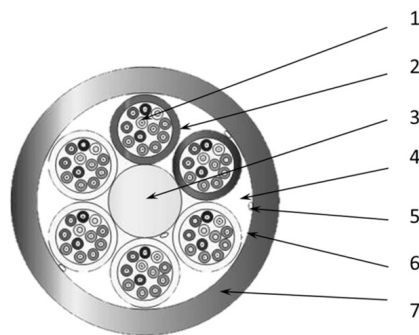
Application

GNHQ 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

The cable consists of up to 12 loose tubes with 12 fibers per tube. G657A1 fibers are used for improved installation performance.

Product Information



- 1 Primary coated fiber: Silica, acrylate
- 2 Loose tube: PA
- 3 Central strength member: Glass fiber reinforced plastic, PE
- 4 Filling compound: Thixotropic gel
- 5 Slit up yarn: Aramide yarn
- 6 Wrapping: Water blocking yarns
- 7 Sheath: Polyethylene, halogen-free

Technical Information

| | |
|---------------------------------------|--|
| Product Color | Green 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-F5B |
| Reaction to Fire | IEC 60332-3-24, CE Eca EN50575:2014 |

| | |
|-------------------------------------|---|
| Fiber Type | G657A1 |
| Attenuation @Wavelength [nm] | 1310/1550/1625 |
| Average Attenuation [dB/km] | 0.36/0.22/0.25 |
| Maximum Attenuation [dB/km] | 0.38/0.25/0.30 |
| Conformance | <p>Flame resistance according to IEC 60332-2-24 and CE Eca EN50575:2014.</p> <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> |
| Marking | <p>Example of sheath marking, 1 time/meter:</p> <p>"HEXATRONIC A35 yymmddhh TOL4059011/24A GNHQ-I CDGRV 24/T12 G657A1 STD xxxx m"</p> <p>where yymmddhh = year, month, day and hour of manufacture, xxxx=running meter marking.</p> |
| Installation Notes | <p>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.</p> |
| Ordering Information | Supplied lengths: 2, 4, 8 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 |
| | 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 5

| Article name | Color | No. of Fibers | Layout | Bend Radius [mm] | Tensile Force [N] | Crush [N/100 mm] | Diameter Ø [mm] | Weight [kg/km] | Length [m] |
|---|-------|---------------|--------|------------------|-------------------|------------------|-----------------|----------------|-----------------------|
| GNHQ 12/T12 C657A1 STD TOL4059011/12A | Green | 12 | 1x12 | 75 | 800 | 2000 | 8.3 | 80 | 2000/K10 |
| GNHQ 24/T12 C652D STD TOL4059011/24A | Green | 24 | 2x12 | 75 | 800 | 2000 | 8.3 | 80 | 2000/K10 |
| GNHQ 48/T12 C657A1 STD TOL4059011/48A | Green | 48 | 4x12 | 75 | 800 | 2000 | 8.3 | 80 | 2000/K10 |
| GNHQ 72/T12 C657A1 STD TOL4059011/72A | Green | 72 | 6x12 | 75 | 800 | 2000 | 8.3 | 80 | 2000/K10 |
| GNHQ 96/T12 C657A1 STD TOL4059011/96A | Green | 96 | 8x12 | 90 | 1100 | 2000 | 8.6 | 81 | 8000/K14, 2000/K10 |