

High Performance Loose Tube Cable

GRHL 12-192 fibers G657A1 S12

Features

- Up to 192 fibres
- Slim yet very durable design
- Air-blown installation, water jetting or traditional pulling
- Excellent optical performance with ultra-low loss G657A1 fibers
- A dry cable design easy to prepare and identify fibres



Application

The Hexatronic slim duct cable series combines state of the art installation performance, ultra-low attenuation and a high mechanical and environmental performance.

The cable type is typically used in transport applications such as terrestrial long-haul or metro networks where low attenuation and cable performance are prime concerns.

With a reduced outside cable diameter and optimised cable stiffness, the cables can be air-blown or water-jetted long distances without the need for splicing. A reduced cable diameter also allows for reduced duct diameters which will simplify and reduce the cost of material handling in field.

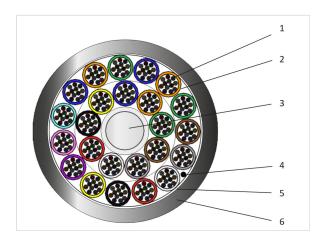
Thanks to the central strength member design and a robust sheath the cables can also be installed by traditional pulling techniques.

Design

The cables are based on a dry concentric core, slim loose tube design with up to 16 tubes per cable. The cables have one or two layers of inner protective tubes made of a robust PBT compound where each tube has 12 fibers.

The design facilitates easy fibre preparation and mid-span access.

Product Information





1 Primary coated fiber: Silica, acrylate

2 Loose tube: PBT

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 Length water blocking according to IEC 60794-1-2-F5B

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 Length water blocking according to IEC 60794-1-2-F5B.

Mechanical and environmental test 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 yymmddhh TOL4012128/192AH GRHL-

U-CDGNRV 192/T12 G657A1 S12 xxxxx m"

where yymmddhh = year, month, day and hour of

manufacture, xxxxx=running meter marking

Installation Notes 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.



Ordering Information Supplied lengths: 2, 4, 8 km

Articles 7

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GRHL 12 G657A1 S12 (1x12f) TOL4012128/12AH	Black	12	1x12	140	1500	500	1500	10	9.4	65
GRHL 24 G657A1 S12 (2x12f) TOL4012128/24AH	Black	24	2x12	140	1500	500	1500	10	9.4	65
GRHL 36 G657A1 S12 (3x12f) TOL4012128/36AH	Black	36	3x12	140	1500	500	1500	10	9.4	65
GRHL 48 G657A1 S12 (4x12f) TOL4012128/48AH	Black	48	4x12	140	1500	700	1500	10	9.4	65
GRHL 72 G657A1 S12 (6x12f) TOL4012128/72AH	Black	72	6x12	140	1500	700	1500	10	9.4	65
GRHL 96 G657A1 S12 (8x12f) TOL4012128/96AH	Black	96	8x12	160	4000	1500	1500	10	10.7	90
GRHL 192 G657A1 S12 (16x12f) TOL4012128/192AH	Black	192	16x12	175	2400	1500	1500	15	13.6	126