

CONTACT

Market information
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Cable, 12 x Optical Fibres, Graded-Index Multimode

STANDARDS

Product Nexans specification

APPLICATIONS

With these high mechanical, chemical and optical properties, this cable has been designed for harsh environments such as :

- Aeronautical
- Geophysics,
- Space,
- Missile,
- Chemical industry.

Construction

12 x OPTICAL FIBRES

Core + cladding + coating
Silica/Silica/Acrylate type 50/125/250 µm

PRIMARY JACKET

Copolymer zero halogen high temperature tubular
Outer diameter = 2.10 ± 0.05 mm

MECHANICAL STRENGTH

Polymer aromatic fiber braid

OUTER JACKET

Fluoropolymer high temperature
FEP UV Laser markable
Nom. diameter = 2.70 mm
Max. diameter = 2.80 mm

Minimum bend radius

Storage > 56 mm

Long term > 28 mm

Short term (installation) > 17 mm



RoHS compliant
Yes

CHARACTERISTICS

Usage characteristics

RoHS compliant

Yes

STUDY 133605 - MAIN DATA

- **Maximum pulling force :**
Long term : 10 daN
Short term : 25 daN
- **Tensile strength : > 100 daN**
- **Nominal weight : 7.5 kg/km**
- **Maximum attenuation at 20°C :**
at 850 nm : 3 dB/km
at 1300 nm : 1 dB/km
- **Effective index of refraction:**
at 850 nm : 1.482
at 1300 nm : 1.477
- **Numerical aperture : 0.200 ± 0.015**
- **Cable Bandwidth (MHz. km) :**
at 850 nm : > 1500
at 1300 nm : > 500
- **Operating temperature:**
Long term : -30 to +100°C
Peak: -65 to 135°C

STUDY 133605 - STRONG POINTS

Mechanical properties :

- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

Optical properties :

- High bandwidth
- Low cost ferrules (Telecom components)

Chemical properties :

- High chemical resistance to on board fluids
- Very low smoke and toxicity (according to ABD0031 chart 1)
- Flamability : non flammable

STUDY 133605 - IDENTIFICATION

Colour of Individual Optical Fibre :

Blue - Orange - Green - Brown - Slate - White - Red - Black - Yellow - Violet - Pink - Aqua

Colour of Jacket :

Light Purple



RoHS compliant
Yes