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Cable, 12 x Optical Fibres, Graded - Index Multimode

**STANDARDS**

Product

**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  $\mu$  m

**PRIMARY JACKET**  
Copolymer zero halogen high temperature tubular  
Outer diameter = 2.10  $\pm$  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

**CHARACTERISTICS**

RoHS compliant

Yes



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