



CONTACT

Market information
 industryprojects.business@lynx
 eogroup.com

EN 4641-103

APPLICATIONS

Optical fibres and hybrids (optical + electrical) in harsh environment

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

OPTICAL FIBER

Core + cladding + coating + upcoating
 Type 62.5/125/250/400 µm

PRIMARY JACKET

Copolymer zero halogen high temperature
 Diameter : 0.90 ± 0.05 mm

MECHANICAL STRENGTH

Polymer aromatic / glass fiber braid

JACKET

1st Layer : Copolymer zero halogen high temperature
 Diameter : 1.50 mm
 2nd Layer : Fluoropolymer
 Diameter : 1.80 ± 0.10 mm

OVERALL BRAID

Fiber glass woven braid

OUTER JACKET

Fluoropolymer
 Diameter : 2.74 ± 0.25 mm

MAIN DATA

Minimum bend radius (20°C) :

Storage : > 54 mm

Long term : > 27 mm

Short term (installation) : > 27 mm

Nominal weight : 10.42 g/m**Attenuation at 20°C :**

at 850 nm : <= 4.0 dB/km

at 1300 nm : <= 2.0 dB/km

Operating temperature :

-65 to +150 °C

Numerical aperture : 0.275 +/- 0.015**Cable Bandwidth (MHz.km) :**

at 850 nm : >= 200

at 1300 nm : >= 600

STRONG POINTS

Mechanical properties :

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

Optical properties :

- High Bandwidth
- Low cost ferrules (Telecom components)

Chemical properties :

- High chemical resistance to on board fluids
- Very low smoke end toxicity
- Flammability : non flammable