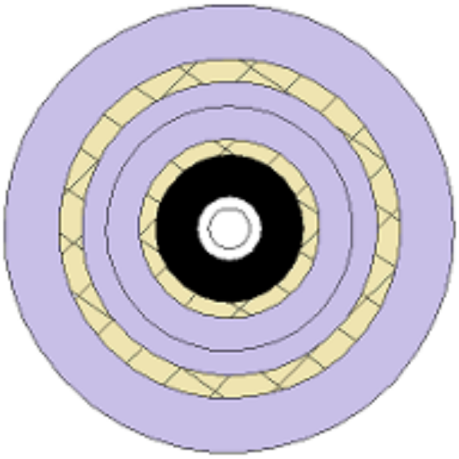
Semi Loose Cable, Ruggedized simplex Fiber Optic, Single mode, Graded Index, OD 2.74 mm



CONTACT

Market information
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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

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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 Bandwith (MHz.km) :
at 850 nm : >= 200
at 1300 nm : >= 600

STRONG POINTS

Mechanical properties :

- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diamter
- 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