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Telecom Solution

FLOWGUARD™

Fire resistant optical fibre cables

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FLOWGUARD™

The new generation of fire resistant cables for safety circuits in public buildings

These multi micromodule cables are designed for indoor/outdoor installation in tunnel infrastructure, and public building such as hospitals, railway stations, airports,...and more.

Thanks to very high fire performance, FLOWGUARD™ is the best choice for fire safety and critical telecom communication systems (FTTx).

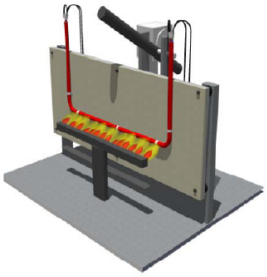
FLOWGUARD™ offers new properties which make it easier to handle and install thanks to the Fibre Reinforced Plastic (FRP) armouring. This brings flexibility and lower bending radius than corrugated steel armoured cables.

The FRP armouring also provides a high rodent protection. These cables can operate under a wide temperature range and are waterproof. FLOWGUARDTM requires no grounding compared to metallic armoured cables.

The highest fire performance

Fire resistance EN 50200 : 120 minutes

EN 50200 / IEC 60331-2
(U-shaped mounting on a refractory plate)



Characteristics of the sample
- Cable diameter : ≤ 20mm
- Minimum length : 1200mm / test

Characteristics of the test
- Flame temperature : 850°C
- Mechanical shock : every 5 minutes
- Bending radius : cf. cable manufacturer
- Voltage : cable rating
- Time : 15 - 30 - 60 - 90 - 120 min

Required condition
Operational continuity ≥ 15 - 30 - 60 - 90 - 120 min


Flame retardant
IEC 60332-1


Fire retardant
IEC 60332-3


Smoke density
IEC 61034-2


Fire resistant
EN 50200 (PH90)

CPR Rating : B2ca-s1a, d0, a1

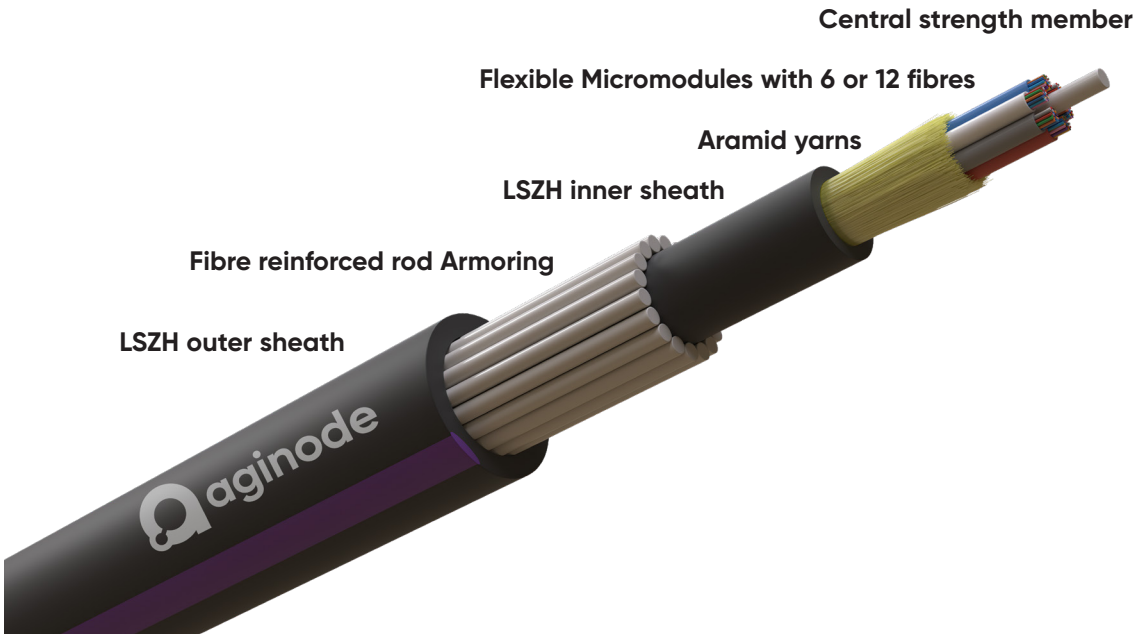
- **Essential characteristic: reaction to fire**
- **Performance: B2ca-s1a, d0, a1**
- **Harmonized standard according to EN 50575/2014+A1:2016**

Micromodules design up to 72 fibres

FLOWGUARD™ cables have a central FRP strength member surrounded by micromodules, each with a maximum of 12 fibres per bundle. The design is reinforced by a layer of aramid yarns, a LSZH inner sheath, FRP armour and a LSZH outer sheath.

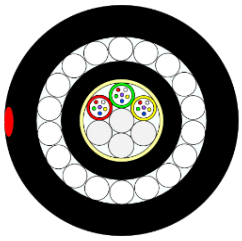
A ripcord is placed beneath the inner and outer sheath for easy access to the micromodules.

Structure of the cable

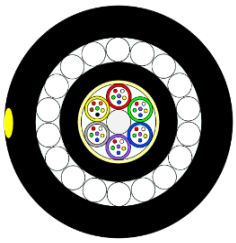


Dimensional characteristics	
Nominal outer diameter	12.4mm
Approximate weight	172 Kg/km
Mechanical characteristics	
Maximum installation tension	6000 N
Maximum permanent tensile load	2 kN
Crush resistance (IEC 60794-1-E3)	300 N/cm
Mechnical resistance to impacts	10 impacts of 3 N.m

Some examples with different combinations in modularity and fibre counts



18OF : 3x6



36OF : 6x6

48OF : 6x8

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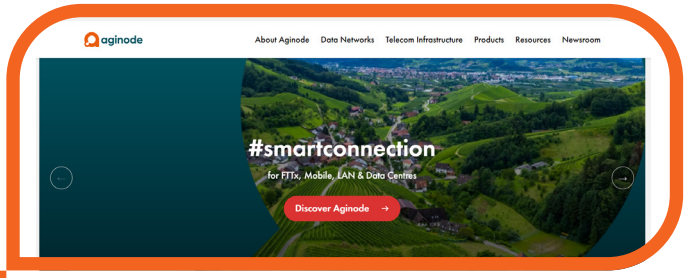

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