

FLOWGUARD™ - Tunnel - Multibundle Cables

Multi micro-modules cable with dielectric FRP armour:

This FLOWGUARD™ (ref. SP1905) is designed for indoor/outdoor installation in railways/tunnel infrastructure.

The FRP armour provides a high rodent protection. This cable has an outstanding fire behaviour.

This cable can be operated under a wide temperature range.

FLOWGUARD™ is fire resistant (circuit integrity) following EN50200 during 120minutes.

Waterproof dry core structure.

Design

The FLOWGUARD™ LSZH* cable has a central strength member (FRP : Fibre Reinforced Plastic), with bundles (maximum 12 fibres per bundle) around. The design is reinforced by a first layer of aramid yarns, a LSZH* inner sheath, a FRP composed armour and a LSZH* outer sheath.

A ripcord is placed beneath the inner and outer sheath for an easy access to the micro-modules.

Fibre type

The FLOWGUARD™ LSZH* cable is available with singlemode and multimode fibres.

Technical performances

The cable performances are specified in the following tables.

Additional details



STANDARDS

EN 50200
EN 50399
IEC 60332-1
IEC 60332-3
IEC 60754-2
IEC 60794
IEC 61034

This cable is provided as a standard with a black sheath, other sheath colours are also available. Long exposure to UV with these other colours could generate colour fading.

Euroclass

B2^{ca} S1a a1 d0

* LSZH: Low Smoke Zero Halogen.

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CHARACTERISTICS

Construction characteristics

Colour	Black
Armour type	FRP
Halogen free	IEC 60754-1
Metal free	Yes
Strength member	Central FRP
Additional strength member	Aramide

Dimensional characteristics

Number of tubes	2
Approximate weight	172 kg/km
Number of optical fibres	24
Nominal outer diameter	12.4 mm

Mechanical characteristics

Mechanical resistance to impacts	10 impacts of 3 N.m
Maximum permanent tensile load	2 kN
Crush resistance (IEC 60794-1-E3)	300 N/cm
Maximum installation tension	6000 N

Usage characteristics

Rodent protection	FRP
Operating temperature, range	-30...60 °C
Fire resistant	UNE-EN50200 PH120
Fire retardant	IEC 60332-3
Flame retardant	IEC 60332-1
Smoke density	IEC 61034-2
Storage temperature, range	-30...60 °C
Installation type	Indoor/Outdoor
Installation temperature, range	-5...40 °C

Selling & delivery Information

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.



Standard Marking



Aginode FLOWGUARD FIBRE OPTIC CABLE LSZH - SP1905 - XXxYY - FB - TN - metric

XX = Fibre Count YY = Fibre Type FB = Frameries, Belgium (manufacturing place) TN = Traceability Number

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Product list

	Aginode ref.	Country ref.	Name	Colour	Number of tubes	Number of optical fibres
	10563593	-	FLOWGUARD LSZH 24XSM G652D SP1905 BK	Black	2	24
	10565775	-	FLOWGUARD LSZH 48XSM G652D SP1905 BK	Black	4	48

 = Make to order,  = In Stock

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