

# FLOWGUARD™ - Feuerbeständig - Multibündelkabel

FLOWGUARD LSZH 6X12 SM-D SP1905 BK

**Aginode Ref:** 14501232

Multi micro-modules cable with dielectric FRP armour:

This FLOWGUARD™ (ref. SP1905) is designed for indoor/outdoor installation in railways/tunnel infrastructure or public buildings when circuit integrity during fire is a key point.

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 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.

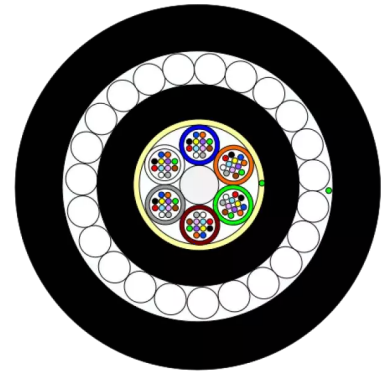
A ripcord is placed beneath the inner and outer sheath for an easy access to the micro-modules.

## Technical performances

The cable performances are specified in the following tables.

## Additional details

This cable is provided as a standard with a black sheath and FOTAG bundle color coding.



## STANDARDS

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

## Euroclass

B2<sup>ca</sup> s1a d1 a1

## Marking

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

XX = Fibre Count YY = Fibre Type TN = Traceability Number

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## Eigenschaften

### Konstruktionsmerkmale

|                                                 |             |
|-------------------------------------------------|-------------|
| Additional strength member                      | Aramide     |
| Armierung                                       | FRP         |
| Farbe                                           | Schwarz     |
| Leitungsaufbau                                  | Multibundle |
| Fasertyp                                        | SM          |
| Halogenfrei                                     | IEC 60754-1 |
| Verwendetes Material für Längswasserdichtigkeit | Quellfäden  |
| Metallfrei                                      | Yes         |
| Außenmantel                                     | LSZH        |
| Zugentlastungselement                           | Central FRP |

### Abmessungsmerkmale

|                             |           |
|-----------------------------|-----------|
| Nettogewicht ca.            | 200 kg/km |
| Außendurchmesser, nom.      | 12.4 mm   |
| Anzahl der optischen Fasern | 72        |
| Anzahl der Bündel           | 6         |

### Mechanische Eigenschaften

|                                       |                     |
|---------------------------------------|---------------------|
| Querdruckwiderstand (IEC 794-1-E3)    | 300 N/cm            |
| Maximale Zugspannung bei Installation | 5000 N              |
| Mechanische Festigkeit gegen Schläge  | 10 impacts of 3 N.m |

### Übertragungseigenschaften

|                                    |               |
|------------------------------------|---------------|
| Dämpfung, max. 1310 nm (verkabelt) | 0.36 dB/1000m |
| Dämpfung, max 1550 MHz (verkabelt) | 0.23 dB/1000m |

### Anwendungsmerkmale

|                              |                   |
|------------------------------|-------------------|
| Biegefaktor bei Verlegung    | 20 (xD)           |
| Feuerbeständig               | UNE-EN50200 PH120 |
| flammwidrig                  | IEC 60332-3       |
| Flammwidrig                  | IEC 60332-1       |
| Umgebungstemperatur, Bereich | -5...40 °C        |
| Art der Installation         | Indoor/Outdoor    |

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.

|                                           |             |
|-------------------------------------------|-------------|
| Mindestbiegeradius bei statischem Einsatz | 200 mm      |
| Betriebstemperatur                        | -40...70 °C |
| Nagetierschutz                            | FRP         |
| Rauchdichte                               | IEC 61034-2 |
| Lagertemperatur, Bereich                  | -40...70 °C |