

# Railways - Multibundle K209B cables

MBC LSZH K209B 6X12SM G652D SP1349 BK

**Aginode Ref:** 10513197

Multi Micro-bundles cable with corrugated steel armour - 72 fibres

This multi micro-bundles cable is designed for indoor/outdoor installation in railways infrastructure.

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

Access to  $\mu$ bundles is made easy with the internal ripcord.

This cable can be operated under a large temperature range.

## Design

The MBC LSZH\* SP1349 cable has a central strength member (FRP : Fibre Reinforced Plastic), with 6 bundles around integrating 12 fibres each. The design is reinforced by a first layer of watertight glass, a LSZH\* inner sheath, a second layer of watertight glass yarns, a corrugated steel armour and a LSZH\* outer sheath.

## Fibre type

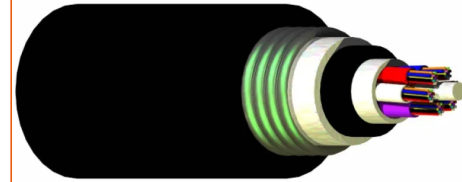
The MBC LSZH\* SP1349 cable is available with singlemode fibres.

## Technical performances

The multibundle cable performances are specified in the following tables.

## Additional details

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.



## STANDARDS

EN 50399 B2  
IEC 60331-2  
IEC 60332-1  
IEC 60332-3  
IEC 60754-1  
IEC 60794  
IEC 61034  
NF C32-070/C1

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.

## Euroclass

B2<sup>ca</sup> S1a a1 d0

\* LSZH: Low Smoke Zero Halogen.

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## Eigenschaften

### Konstruktionsmerkmale

|   |                 |
|---|-----------------|
| Farbe   | Schwarz         |
| Fasertyp  | SM (G.652D)     |
| Armierung                                       | gewellter Stahl |
| Außenmantel                                     | LSZH            |
| Halogenfrei                                     | IEC 60754-1     |
| Verwendetes Material für Längswasserdichtigkeit | Quellfäden      |
| Metallfrei                                      | No              |
| Zugentlastungselement                           | Central FRP     |
| Leitungsaufbau                                  | Multibundle     |
| Additional strength member                      | Glass yarn      |

### Abmessungsmerkmale

|                             |           |
|-----------------------------|-----------|
| Anzahl der Bündel           | 6         |
| Nettogewicht ca.            | 188 kg/km |
| Anzahl der optischen Fasern | 72        |
| Außendurchmesser, nom.      | 12.6 mm   |

### Mechanische Eigenschaften

|                                       |                     |
|---------------------------------------|---------------------|
| Mechanische Festigkeit gegen Schläge  | 10 impacts of 1 N.m |
| Maximalzulässige Dauerzuglast         | 2 kN                |
| Querdruckwiderstand (IEC 794-1-E3)    | 300 N/cm            |
| Maximale Zugspannung bei Installation | 3000 N              |

### Übertragungseigenschaften

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

### Anwendungsmerkmale

|                    |                       |
|--------------------|-----------------------|
| Nagetierschutz     | Corrugated steel tape |
| Betriebstemperatur | -20...60 °C           |
| Feuerbeständig     | IEC 60331-25          |

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|   |                  |
|---|------------------|
| flammwidrig                               | IEC 60332-3      |
| Mindestbiegeradius bei statischem Einsatz | 250 mm           |
| Flammwidrig                               | IEC 60332-1      |
| Rauchdichte                               | IEC 61034-2      |
| UV Beständigkeit                          | Good             |
| Lagertemperatur, Bereich                  | -20...60 °C      |
| Biegeradius während Verlegung             | 350 mm           |
| Art der Installation                      | Indoor/Outdoor   |
| Umgebungstemperatur, Bereich              | -20...60 °C      |
| Wasserdicht                               | Längs- und quer- |

## Erklärung zur Leistung

MBC LSZH K209B 6x12SM G652D SP1349 BK pdf — 120.82 KB [Herunterladen](#) ↓

## Verkauf & Lieferung Informationen

## Standard Marking

Aginode - FIBRE OPTIC CABLE - MBC LSZH SP1400 - XXxYY - FB - TN - metric

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