

# Railways - Multibundle K209 cables

MBC K209B LSZH 24X12SM G657A2 SP1921 GY

**Aginode Ref:** 14500004

Multi Micro-bundles cable with corrugated steel armour - 288 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 SP1921 cable has a central strength member (FRP : Fibre Reinforced Plastic), with 24 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.

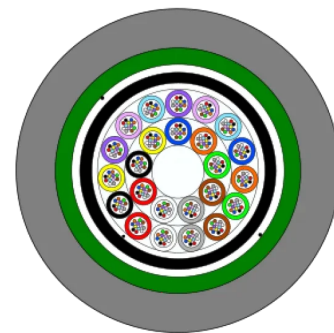
## Technical performances

The multibundle cable performances are specified in the following tables.

## Euroclass

B2ca S1a a1 d0

\* LSZH: Low Smoke Zero Halogen.



## STANDARDS

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

# MBC K209B LSZH 24x12SM G657A2 SP1921 GY

## Characteristics

### Construction characteristics

Colour	Grey
Fiber optic type	SM (G657.A2)
Armour type	Corrugated steel
Outer sheath	LSZH
Halogen free	IEC 60754-1
Material used for longitudinal water tightness	Swellable yarn
Metal free	No
Strength member	Central FRP
Construction type	Multibundle
Additional strength member	Glass yarn

### Dimensional characteristics

Number of tubes	24
Approximate weight	330 kg/km
Number of optical fibres	288
Nominal outer diameter (mm)	16.7 mm

### Mechanical characteristics

Mechanical resistance to impacts	3 impacts of 5 N.m
Maximum permanent tensile load	3.4 kN
Crush resistance (IEC 60794-1-E3)	200 N/cm
Maximum installation tension	5700 N

### Transmission characteristics

Attenuation, max. 1310 nm (cabled)	0.36 dB/1000m
Attenuation, max. 1550 nm (cabled)	0.23 dB/1000m

### Usage characteristics

Rodent protection	Corrugated steel tape
Operating temperature, range	-30...60 °C
Fire retardant	IEC 60332-3

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Minimum static operating bending radius	330 mm
Flame retardant	IEC 60332-1
Smoke density	IEC 61034-2
U.V resistance	Good
Storage temperature, range	-30...70 °C
Laying operation bending radius	420 mm
Installation type	Indoor/Outdoor
Installation temperature, range	-5...60 °C
Water proof	Longitudinal & radial

## パフォーマンス宣言

MBC K209B LSZH 24x12SM G657A2 SP1921 GY pdf — 120.18 KB [ダウンロード ↓](#)

## 販売および配送情報

## Standard Marking

Aginode - FIBRE OPTIC CABLE - MCB LSZH SP1921 - XXxYY - FB - TN - metric

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