

# Railways - Multibundle K209B cables

MBC K209B LSZH 24X6SM SP1921 BK

Multi Micro-bundles cable with corrugated steel armour

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 μbundles 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 6 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

B2<sup>ca</sup> 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 24x6SM SP1921 BK

## Eigenschaften

### Konstruktionsmerkmale

Farbe	Schwarz
Fasertyp	SM
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	24
Nettogewicht ca.	330 kg/km
Anzahl der optischen Fasern	144
Außendurchmesser, nom.	16.7 mm

### Mechanische Eigenschaften

Mechanische Festigkeit gegen Schläge	3 impacts of 5 N.m
Maximalzulässige Dauerzuglast	3.4 kN
Querdruckwiderstand (IEC 794-1-E3)	200 N/cm
Maximale Zugspannung bei Installation	5700 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	-30...60 °C
flammwidrig	IEC 60332-3
Mindestbiegeradius bei statischem Einsatz	330 mm
Flammwidrig	IEC 60332-1

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Rauchdichte	IEC 61034-2
UV Beständigkeit	Good
Lagertemperatur, Bereich	-30...70 °C
Biegeradius während Verlegung	420 mm
Art der Installation	Indoor/Outdoor
Umgebungstemperatur, Bereich	-5...60 °C
Wasserdicht	Längs- und quer-

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