# Railways - Multibundle K209 cables

MBC LSZH K209B 2X6SM G652D SP1344 BK

Aginode Ref: 10145800

Multi Micro-bundles cable with corrugated steel armour - 12 fibres SM G652D

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.



The MBC LSZH\* cable has a central strength member (FRP: Fibre Reinforced Plastic), with bundles (maximum 6 fibres per bundle) around. 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 steath.

## Fibre type

The MBC LSZH\* cable is available with singlemode and multimode 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

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The sheathing material is compliant with ISO 4892-2 regarding the UV exposure.

The cable is compliant with the standard NFPA - IEEE1202&UL1685.

### **Euroclass**

B2ca S1a a1 d0

\* LSZH: Low Smoke Zero Halogen.

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# **Characteristics**

Construction characteristics			
	Colour	Black	
	Fiber optic type	SM (G.652D)	
	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	
D	imensional characteristics		
	Number of tubes	2	
	Approximate weight	176 kg/km	
	Number of optical fibres	12	
	Nominal outer diameter	11.1 mm	
Mechanical characteristics			
	Mechanical resistance to impacts	10 impacts of 1 N.m	
	Maximum permanent tensile load	1.4 kN	
	Crush resistance (IEC 60794-1-E3)	300 N/cm	
	Maximum installation tension	2000 N	
Т	ransmission 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	-2060 °C	
	Fire retardant	IEC 60332-3	

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Minimum static operating bending radius	220 mm
Flame retardant	IEC 60332-1
Smoke density	IEC 61034-2
U.V resistance	Good
Storage temperature, range	-2070 °C
Laying operation bending radius	275 mm
Installation type	Indoor/Outdoor
Installation temperature, range	-2060 °C
Water proof	Longitudinal & radial

### **Declaration of Performance**

MBC LSZH K209B 2x6SM G652D SP1344 BK pdf — 119.99 KB Download ₹

## **Selling & delivery Information**

# **Standard Marking**

Aginode - FIBRE OPTIC CABLE - MBC LSZH SP1344 - XXxYY - FB - TN - metric

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

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