Railways - Multibundle K209 cables

MBC LSZH K209B 4X12SM G652D SP1349 BK

Aginode Ref: 10218921

Multi Micro-bundles cable with corrugated steel armour - 48 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 µbundles is made easy with the internal ripcord.

This cable can be operated under a large temperature range.



The MBC LSZH* SP1349 cable has a central strength member (FRP: Fibre Reinforced Plastic), with 4 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 steath.

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

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Euroclass

B2ca S1a a1 d0

* LSZH: Low Smoke Zero Halogen.

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Characteristics

C	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	
	Dimensional characteristics		
	Number of tubes	4	
	Approximate weight	188 kg/km	
	Number of optical fibres	48	
	Nominal outer diameter	12.6 mm	
Mechanical characteristics			
	Mechanical resistance to impacts	10 impacts of 1 N.m	
	Maximum permanent tensile load	2 kN	
	Crush resistance (IEC 60794-1-E3)	300 N/cm	
	Maximum installation tension	3000 N	
1	Fransmission 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 resistant	NF C 32-070 CR1	

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Fire retardant	IEC 60332-3
Minimum static operating bending radius	250 mm
Flame retardant	IEC 60332-1
Smoke density	IEC 61034-2
U.V resistance	Good
Storage temperature, range	-2060 °C
Laying operation bending radius	350 mm
Installation type	Indoor/Outdoor
Installation temperature, range	-2060 °C
Water proof	Longitudinal & radial

Declaration of Performance

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Selling & delivery Information

Standard Marking

Aginode - FIBRE OPTIC CABLE - MBC LSZH SP1349 - XXxYY - FB - TN - metric

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

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