Railways - Multibundle K209 cables

Multi Micro-bundles cable with corrugated steel armour:

SP1344 - up to 36 fibres modulo 6 SP1400 - up to 48 fibres modulo 6 SP1349 - up to 72 fibres modulo 12 SP1757 - up to 96 fibres modulo 12

SP1758 - up to 144 fibres modulo 12

SP1921 - up to 288 fibres modulo 12

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* 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



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 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.

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

The cable is compliant with NFPA - IEEE1202 &UL1685.

Euroclass

B2ca S1a a1 d0

* LSZH: Low Smoke Zero Halogen.

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CHARACTERISTICS

CHARACTERISTICS		
Construction characteristics		
Colour	Black	
Fiber optic type	SM (G657.A2)	
Armour type	Corrugated steel	
Outer sheath	LSZH	
Halogen free	IEC 60754-1	
Metal free	No	
Strength member	Central FRP	
Construction type	Multibundle	
Additional strength member	Glass yarn	
Dimensional characteristics		
Number of tubes	6	
Number of optical fibres	72	
Mechanical characteristics		
Mechanical resistance to impacts	10 impacts of 1 N.m	
Crush resistance (IEC 60794-1-E3)	300 N/cm	
Usage characteristics		
Rodent protection	Corrugated steel tape	
Operating temperature, range	-2060 °C	
Fire resistant	NF C 32-070 CR1	
Fire retardant	IEC 60332-3	
Flame retardant	IEC 60332-1	
Smoke density	IEC 61034-2	
U.V resistance	Good	
Installation type	Indoor/Outdoor	
Installation temperature, range	-2060 °C	
Water proof	Longitudinal & radial	

Selling & delivery Information

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Standard Marking

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

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

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Product list

	Aginode ref.	Country ref.	Name	Number of optical fibres	Crush resistance (IEC 60794-1-E3)	Mechanical resistance to impacts
و	, 14500598	-	MBC LSZH K209B 6x12SM G657A2 SP1349 BK	72	300 (N/cm)	10 impacts of 1 N.m
ر	•	-	MBC K209B LSZH 24x6SM SP1921 BK	144	200 (N/cm)	3 impacts of 5 N.m
•	, 10548533	-	MBC LSZH K209B 6xSM G652D SP1344 BK	6	300 (N/cm)	10 impacts of 1 N.m
و	, 10145800	-	MBC LSZH K209B 2x6SM G652D SP1344 BK	12	300 (N/cm)	10 impacts of 1 N.m
ر	•	-	MBC LSZH 1x6 50/125 OM3 SP1344 GR (K209/SYT)	6	300 (N/cm)	10 impacts of 1 N.m
ر	, 10507006	-	MBC LSZH K209B 6x50/125 OM3 SP1344 BK	6	300 (N/cm)	10 impacts of 1 N.m
٠	, tdb	-	MBC LSZH K209B 4x50/125 OM3 SP1344 BK	4	300 (N/cm)	10 impacts of 1 N.m
و	, 10562651	-	MBC K209B LSZH 24x12SM G657A1 SP1921 BK	288	200 (N/cm)	3 impacts of 5 N.m
٠	, 10513197	-	MBC LSZH K209B 6x12SM G652D SP1349 BK	72	300 (N/cm)	10 impacts of 1 N.m
و	, 10508928	-	MBC LSZH K209B 4x6SM + 4x6MM SP1400 BK	48	300 (N/cm)	10 impacts of 1 N.m
٠	, 10508458	-	MBC K209c LSZH 8x12SM G652D SP1757 BK	96	300 (N/cm)	10 impacts of 1 N.m
و	, 10509235	-	MBC K209 LSZH 12x12SM G652D SP1758 BK	144	300 (N/cm)	10 impacts of 1 N.m
٠	, 10504788	-	MBC LSZH K209B 6x6SM G652D SP1344 BK	36	300 (N/cm)	10 impacts of 1 N.m
و	, 10545733	-	MBC LSZH K209B 2x6 50/125 OM3 SP1344 BK	12	300 (N/cm)	10 impacts of 1 N.m
٠	, 10218921	-	MBC LSZH K209B 4x12SM G652D SP1349 BK	48	300 (N/cm)	10 impacts of 1 N.m
٠	, 14500004	-	MBC K209B LSZH 24x12SM G657A2 SP1921 GY	288	200 (N/cm)	3 impacts of 5 N.m
					C =1	Make to order, ゚゚゚፟፟፟፟ = In Stock

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