

BL-02XS(St)CHXOE 1 P AWG 20 WTB/ MVB

Databus for rolling stock WTB halogen free

Description

Application

The cable BL-02XS(St)CHXOE 1 P AWG 20 is used as a connecting cable to transmit digital signals inside railway rolling stock.

Marking

Continuos printing in contrasting colors [manufacturer identification] + type identification resp. manufacturers identification thread

Core colours

Pair: white, black

Standard

DIN 5510 part 1

Hazard level 1 - 4

Design

Conductor/ core: Tinned Cu strand, AWG 20/ 19

Insulation: Foam Skin-Polyethylene, cross-linked

Pair: Two cores were stranded to a pair together with two filling elements

Wrapping: Minimum one layer of non woven tape wrapped overlapped

Screen: Screen composed of a aluminium luminated plastic foil and a tinned copper braid, optical coverage approx. 90%

Seperator: Non woven tape overlapped

Outer sheath: Cross linked mineral il and fuel resistant HFFR Compound EM 104 according to EN 50264 part 1

Colour: black



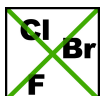
Standards

International EN 50267-2-2

National DIN 5510-1

Characteristics

Construction characteristics	
Halogen free	EN 50267-2-1 & EN 60684-2
Dimensional characteristics	
Conductor cross-section	0.62 mm ²
Approximate weight	80 kg/km



Halogen free
EN 50267-2-1 & EN
60684-2



Smoke density
EN/IEC 61034-2



Operating temp.
range
-40 .. 90 °C



Gases corrosivity
No acc. to EN
50267-2-2



Gases toxicity
innocuous EN
50305-9.2



Flame retardant
Yes

BL-02XS(St)CHXOE 1 P AWG 20 WTB/ MVB

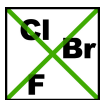
Usage characteristics

Smoke density	EN/IEC 61034-2
Operating temperature, range	-40 .. 90 °C
Gases corrosivity	No acc. to EN 50267-2-2
Gases toxicity	innocuous EN 50305-9.2
Flame retardant	Yes

Product List

Nexans ref.	Name
☎ 45983010	BL-02XS(St)CHXOE 1 P AWG 20 WTB/ MVB

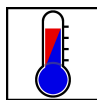
☎ = Make to order, 🏭 = Make to stock



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60684-2



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Maximum admissible operating temperature at the conductor

in operation	- 40°C / + 85°C
during laying	- 20°C / + 50°C

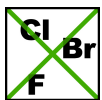
Minimum admissible bending radius

Single bending	≥ 6 x D
Multiple bending	≥ 12 x D
Max. admissible tensile loading	50 N/mm ² conductor cross-section

Properties	Requirements	Test according to
Electrical properties		
Test voltage	core / core 2000 Veff	EN 50289-1-3
	core / screen 1500 Veff	50 Hz, 1 min
Conductor resistance	≤ 33.1 Ω / km	EN 50289-1-2
Mean characteristic impedance 0.5 - 2 MHz	(120 ± 12) Ω	IEC 61196-1 part 11.8.1
Attenuation	1.0 MHz ≤ 1.1 dB / 100 m	EN 50289-1-8
	2.0 MHz ≤ 1.5 dB / 100 m	

Selling delivery information

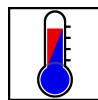
This cable is neither useful for mutiple bendings nor for torsion. If needed any single case must be decided.



Halogen free
EN 50267-2-1 & EN
60684-2



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