

# RADOX® Databus 120 ohm XM S EN

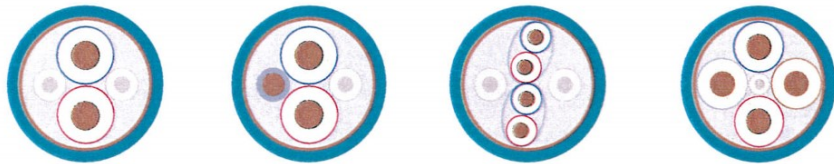
## General features

Halogen free electron beam cross linked cables with improved behaviour in case of fire, easy to strip, soldering iron resistant and flexible. Symmetric 120 ohm databus with excellent transfer properties at high frequencies.

RADOX Databus 120 ohm XM S EN meet the demanding requirements of fire safety standards EN 45545-2.

## Application

For protected connections of fixed and sporadic moving parts inside and outside of rolling stock.



Construction		$2 \times 0.5 \text{ mm}^2$	$2 \times 0.5 \text{ mm}^2 + 0.5 \text{ mm}^2$	$2 \times 2 \times 0.5 \text{ mm}^2$	$4 \times 0.5 \text{ mm}^2$	
Item no.		85004176	84138531	85003600	85001338	
Conductor	(databus)	stranded, tin plated				
	cross section	$\text{mm}^2$	0.5			
	diameter	mm	0.89			
Insulation		RADOX FOAM				
diameter		mm	2.3	2.3	1.85	2.3
core colours		blue-red		blue-red 1 blue-red 2	blue-red brown-grey	
Additional cores		$\text{mm}^2$	no	$1 \times 0.5 \text{ mm}^2$	no	no
	diameter	mm	-	0.89	-	-
	insulation		-	RADOX TI 301	-	-
	colour		-	white	-	-
Cable construction	layer		pair	pair	pair	4-er
	screening		Cu braid	Cu braid	Cu braid	Cu braid
	sheath diameter	mm	RADOX EM 104 $7.8 \pm 0.3$	RADOX EM 104 $7.8 \pm 0.3$	RADOX EM 104 $11.5 \pm 0.4 \text{ mm}$	RADOX EM 104 $8.2 \pm 0.3$
colour			turquoise	turquoise	turquoise	turquoise

# RADOX® Databus 120 ohm XM S EN

## Technical data

Construction		2 × 0.5 mm <sup>2</sup>	2 × 0.5 + 0.5 mm <sup>2</sup>	2 × 2 × 0.5 mm <sup>2</sup>	4 × 0.5 mm <sup>2</sup>
Item no.		85004176	84138531	85003600	85001338
Conductor resistance at 20 °C	Ω/km	40.1			
Insulation resistance at 20 °C	MΩ/km	100			
Capacitance core/core	pF/m	46			
Impedance	Ω	120 ± 12			
Attenuation nom. at 3 MHz	dB/km	≤ 20			
Voltage rating					
- Databus	V AC	300			
- Control wire	V AC	600			
Fire load	kJ/m	970	955	2005	1055
Cable weight	kg/100 m	7.6	8	17.5	9.4
Temperature range	°C	-50 to +90			
Min. bending radius					
- fixed installation	cable Ø	6 × D			
- sporadic movement	cable Ø	10 × D			

Application				
MVB	x	x	x	x
CAN	x	x		
RS 485	x		x	x
WTB				
UIC				

## Standards

Standard	Fire protection on railway vehicles
DIN 5510-2	hazard level 1, 2, 3, 4
EN 45545-2	
UNI CEI 11170-3	

For further technical details please refer to our data sheet.