

# RADOX® RAILCAT CAT5e 100 OHM 4x22 AWG XM S RW

developed and tested for use in railway applications



RADOX® RAILCAT CAT5e XM S RW 4x22 AWG

## Technical data

- compliant with the requirements acc. to EN 50288-2-2 and IEC 61156-6
- Temperature range**  
-40°C to +90°C
- Nominal voltage**  
U<sub>0</sub>/U 300 V
- Test voltage**  
2000 V
- DC resistance** @ +20°C  
54,4 Ω/km
- Unbalance resistance** @ +20°C  
≤ 1,1 Ω/km
- Transfer impedance**  
f ≤ 30 MHz 200 MΩ/m
- Impedance**  
f = 100 MHz 100 ± 5 Ω
- Mutual capacitance**  
core/core ≤ 56 pF/m  
core/screen ≤ 100 pF/m
- rel. **propagation velocity**  
75%
- Minimum bending radius**  
fixed 6x Outer-Ø

## Cable structure

- Copper wire, silver-plated (Part no. 11006072, tinned)
- Core insulation: RADOX® FOAM
- Core identification: white-blue, orange-yellow
- Cross section: 4x22 AWG
- EMC-Screen: plastic-coated aluminium foil (overall)
- EMC-Screen: braided screen of tinned copper wires (overall)
- Outer sheath: RADOX® EM 104
- Outer sheath colour: see table

## Properties

- halogen-free and flame-retardant
- very good resistance to: oil, fuel, ozone and weather influences
- cold flexible
- heat resistant
- electron beam cross-linked RADOX® insulation does not melt or flow
- compliant with the essential fire protection standards

## Tests

- EN 45545-2 HL1 - HL3
- NFPA 130

## Note

- please find further technical information in the H&S product data sheet
- other dimensions and colours on request

## Application

- The cables are intended for fixed installation in rail vehicles or for installation where limited alternating bending stress occurs during operation.
- Specifications concerning the selection and installation of cables are described in standard EN 50343.

Part no.	Part no. H&S	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Weight app. kg / km	Copper weight kg / km
34650	12584038	4 x 22 AWG BK	6,6	70	26,4
11006074	85068348	4 x 22 AWG BU	6,6	70	26,4

Part no.	Part no. H&S	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Weight app. kg / km	Copper weight kg / km
11006072	85065038	4 x 22 AWG BU	6,6	70	26,9

Dimensions and specifications may be changed without prior notice.