

RADOX® RAILCAT CAT5

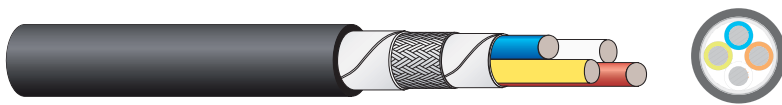
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General features

Halogen free electron-beam cross linked cables with improved behaviour in case of fire, easy to strip, soldering iron resistant and flexible. Meet the requirements of EN 50288-2-2 and the fire safety requirements of DIN 5510-2, prEN 45545-2 and NF F 16-101.

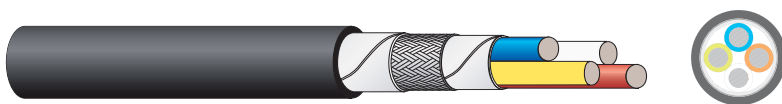
Application

The cables are intended for fixed installation in rail vehicles or for applications in which a limited alternating bending stress occurs during service.



RADOX RAILCAT CAT5 100 OHM 4 x 22 AWG XM S RW

Conductor	stranded, silver plated copper
Insulation	RADOX FOAM
Colours	white-blue, orange-yellow
Number of cores	4
Cross section	22 AWG
Construction	quad
EMC screen	aluminium tape, laminated (overall)
EMC screen	braid, tin plated copper (overall)
Sheath	RADOX EM 104, black
Cable diameter	6.6 ± 0.4 mm
Item no.	12584038



RADOX RAILCAT CAT5 100 OHM 4 x 22 AWG XM S

Conductor	stranded, silver plated copper
Insulation	RADOX COM
Colours	white-blue, orange-yellow
Number of cores	4
Cross section	22 AWG
Construction	quad
EMC screen	aluminium tape, laminated (overall)
EMC screen	braid, tin plated copper (overall)
Sheath	RADOX EM 104, black
Cable diameter	7.25 ± 0.3 mm
Item no.	12568935

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RADOX RAILCAT CAT5 100 OHM 4 x 22 AWG XM S E

Conductor	stranded, tin plated copper
Insulation	RADOX COM
Colours	white-blue, orange-yellow
Number of cores	4
Cross section	22 AWG
Construction	quad
EMC screen	aluminium tape, laminated (overall)
EMC screen	braid, tin plated copper (overall)
Sheath	RADOX EM 104, black
Cable diameter	7.25 ± 0.3 mm
Item no.	84142178



RADOX RAILCAT CAT5 100 OHM 4 x 0.5 XM S

Conductor	stranded, tin plated copper
Insulation	RADOX COM
Colours	white-blue, orange-yellow
Number of cores	4
Cross section	0.5 mm ²
Construction	quad
EMC screen	aluminium tape, laminated (overall)
EMC screen	braid, tin plated copper
Sheath	RADOX EM 104, black
Cable diameter	8.3 ± 0.3 mm
Item no.	12585489

Technical data

RADOX RAILCAT CAT5			4 x 0.5	4 x 22 AWG	4 x 22 AWG E	4 x 22 AWG RW
Item no.			12585489	12568935	84142178	12584038
Conductor resistance at 20 °C	Ω/km		≤ 40.1	54.4	54.4	54.4
Resistance unbalanced at 20 °C	Ω/km		≤ 1.1	≤ 1.1	≤ 1.1	≤ 1.1
Voltage rating	V AC		300	300	300	300
Test voltage	V AC		2000	2000	2000	2000
Transfer impedance	f ≤ 30 MHz	mΩ/m	200	200	200	200
Characteristic impedance	f = 100 MHz	Ω	100 ± 5	100 ± 5	100 ± 5	100 ± 5
Signal propagation		%	66	66	66	75
Capacitance core/core core/screen	pF/m		≤ 65	≤ 65	65	≤ 65
	pF/m		≤ 100	≤ 100	100	≤ 100
Temperature range						
- fixed installation	°C		-40 to +90	-40 to +90	-40 to +90	-40 to +90
- sporadic movement	°C		-25 to +90	-25 to +90	-25 to +90	-25 to +90
Min. bending radius						
- fixed installation	cable Ø		6 x	6 x	6 x	6 x
- sporadic movement	cable Ø		--	10 x	10 x	--
Cable weight	approx.	kg/100 m	10.2	8.1	8.1	7.0
Cable outer diameter		mm	8.30	7.25	7.25	6.60
Suitable connectors			M 12	M 12	M12	RJ 45 / M12
CAT5e qualified			yes	yes	yes	yes

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