

INDUSTRIAL ETHERNET CABLES FOR RAILWAY TECHNOLOGY

DIN EN 45545-2
edition 2013

CATLine CAT 5e R
CAT 6A R halogen-free Industrial Ethernet Cables for Railway Technology
CAT 7A R



Marking for CATLine CAT 5e R 15674421:
SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.5e R 4x2x24AWG 1567-4421 CE

Construction:	CATLine CAT 5e R <i>flexible</i>	CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
Dimension:	2 x 2 x 24 AWG / 2 x 2 x 22 AWG / 4 x 2 x 24 AWG		4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires		
Insulation:	PE		
Colour code:	blue, yellow, white, orange	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
Stranding:	star quad	twisted to pairs	twisted to pairs with alu foil
Wrapping:	foil		
Screen:	alu foil and tinned copper braiding		
Sheath material:	special SABIX®		
Sheath colour:	green (similar RAL 6018)		

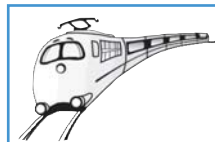
Technical data:	CATLine CAT 5e R <i>flexible</i>	CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
Item number:	1567-9002 / 1567-9004 / 1567-4421	1667-4621	1767-4621
Peak operating voltage:	max. 90 V		
Testing voltage:	core/core 1500 V - core/screen 1200 V		
Temperature range VDE fixed laying: flexible application:	- 40°C / + 70°C - 30°C / + 70°C		
Min. bending radius fixed laying: flexible application:	5 x d 12 x d		
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 / CAT 5	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Halogen-free:	acc. to DIN EN 50306-1 + DIN EN 50264-1. Development of HCl is ≤ 0,5% acc. to DIN EN 50267-2-1. pH-value is ≥ 4,3 acc. to DIN EN 50267-2-2. Conductivity is ≤ 10,0 μS/mm acc. to DIN EN 50267-2-2. Fluoric content ≤ 0,1% acc. to DIN EN 60684-2		
Fire performance:	No flame propagation acc. to DIN EN 60332-3-25 + DIN EN 50305 section 9.1.1 + 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2		
Smoke density:	acc. to DIN EN 61034		
Toxicity:	acc. to DIN EN 50305		
Flexibility:	good		
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/14		

item no.	type	no. of cores	cross section AWG	max. core-ø mm	outer-ø mm	copper figure kg/km	cable weight ≈kg/km
15679002	CATLine CAT 5e R	4	24	max. 1,30	5,2 ± 5%	22,7	41
15679004	CATLine CAT 5e R	4	22	max. 1,60	5,9 ± 5%	29,1	52
15674421	CATLine CAT 5e R	8	24	max. 1,30	8,0 ± 10%	41,2	70
16674621	CATLine CAT 6A R	8	26	max. 1,05	6,8 ± 10%	36,3	58
17674621	CATLine CAT 7A R	8	26	max. 1,60	7,8 ± 10%	38,5	82

Other dimensions and colours are possible on request.

Outstanding features:

- ▶ halogen-free
- ▶ no flame propagation
- ▶ flame retardant and self-extinguishing
- ▶ fulfils fire protection requirements R15 (EL1A) acc. to DIN EN 45545-2 for hazard levels HL1-3



**Especially
for use in
rail vehicles**



**E
37**