

# CAT LINE CAT 5e R flex / 6A R flex

지속적으로 유연한 할로겐 프리 철도 기술 용 산업용 이더넷 케이블



Marking for CATLine CAT 7A R flex 17694431:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A R flex 4x2x24AWG 1769-4431 CE

Construction:	CATLine CAT 5e R flex continuously flexible		CATLine CAT 6A R flex continuously flexible	CATLine CAT 7A R flex continuously flexible
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:	special SABIX®			
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 flex continuously flexible	CATLine CAT 6A R flex continuously flexible	CATLine CAT 7A R flex continuously flexible
Item number:	1569-2431 1569-2231	1569-4431 1569-4631	1669-4431 1669-4631
Peak operating voltage:	max. 90 V		
Testing voltage:	core/core 1500 V - core/screen 1200 V		
Temperature range VDE fixed laying: flexible application:	- 50°C / + 90°C - 40°C / + 90°C		
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 12 x d 15 x d		
Characteristic impedance:	100Ω ± 5Ω with reference to EN 50288-2-2 / CAT 5	100Ω ± 10Ω with reference to EN 50288-2-2 / CAT 5	100Ω ± 10Ω with reference to EN 50288-10-2 / CAT 6A
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		



## Outstanding features:

- continuously flexible
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- good oil and fuel resistance
- good acid and alkalines resistance
- fulfils fire protection requirements R15 (EL1A) and R16 (EL1B) acc. to DIN EN 45545-2 for hazard levels HL1-3

item no.	type	no. of cores	cross section AWG	core-ø approx. mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈kg/km
15692431	CATLine CAT 5e R flex	4	24	1,25	5,1	22,7	41
17694431	CATLine CAT 7A R flex	8	24	1,61	9,6	46,4	102

Other dimensions and colours are possible on request.



Suitable for flexible and protected installation  
in the interior for door control or in protecting tubes  
for outdoor laying at the bogie.  
Appropriate for light and medium mechanical stress.