

INDUSTRIAL ETHERNET CABLES FOR RAILWAY TECHNOLOGY

DIN EN 45545-2



CATLine

CAT 5e R flex
CAT 6A R flex
CAT 7A R flex

Halogen-free continuously flexible Industrial Ethernet Cables
for Railway Technology

CATLine Cat.7A R flex 4x2x24AWG 17694431 CE



Marking for CATLine CAT 7A R flex 17694431:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A R flex 4x2x24AWG
17694431 CE

Industrial Ethernet is a quickly developing network technology. Ethernet with the worldwide accepted TCP/IP (Transmission Control Protocol/ Internet Protocol) will be the future connection to the well established field bus or sensor / actuator level. Depending on the application, we are able to offer today CAT 5, CAT 6 and CAT 7 cable solutions for flexible and continuous flex use, for chemical and thermal stress as well as special cable constructions for reeling purpose and robot operation.

item no.	type	dimension AWG	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 15692431	CATLine CAT 5e R flex	24 (≈ 14/34)/2pr	0.201	≈ 5.1	28
▶ 15692231	CATLine CAT 5e R flex	22/2pr	0.228	≈ 5.8	33
▶ 15694431	CATLine CAT 5e R flex	24/4pr	0.311	≈ 7.9	55
▶ 15694631	CATLine CAT 5e R flex	26 (≈ 18/38)/4pr	0.256	≈ 6.5	37
▶ 16694431	CATLine CAT 6A R flex	24 (≈ 18/38)/4pr	0.311	≈ 7.9	55
▶ 16694631	CATLine CAT 6A R flex	24/4pr	0.256	≈ 6.5	39
▶ 17694431	CATLine CAT 7A R flex	24 (≈ 14/34)/4pr	0.378	≈ 9.6	69
▶ 17694631	CATLine CAT 7A R flex	26 (≈ 18/38)/4pr	0.339	≈ 8.6	63

Other dimensions and colors are possible on request.

Construction:	CATLine CAT 5e R flex		CATLine CAT 6A R flex	CATLine CAT 7A R flex
	continuously flexible		continuously flexible	continuously flexible
Item number:	15692431 15692231	15694431 15694631	16694431 16694631	17694431 17694631
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	4 x 2 x 24 AWG	4 x 2 x 24 AWG / 4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires			
Insulation:	special SABIX®			
Color 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			
Jacket material:	special SABIX®			
Jacket color:	green (similar RAL 6018)			

Technical data:	CATLine CAT 5e R flex		CATLine CAT 6A R flex	CATLine CAT 7A R flex
	continuously flexible		continuously flexible	continuously flexible
Peak operating voltage:	max. 90 V			
Testing voltage:	conductor/conductor 1500 V - conductor/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: continuous flex:	5 x O.D. 12 x O.D. 15 x O.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	100Ω ± 10Ω with reference to EN 50288-9-2 / CAT 7A
Zero halogen:	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			
Burning characteristics:	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:	very good			
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30			

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



Especially
for use in
rail vehicles.



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.

E-mail: info@sabcable.com



Web site: www.sabcable.com