Industrial Ethernet cables

CATLine CAT 5e R
CATLine CAT 6A R
CATLine CAT 7A R

halogen-free Industrial Ethernet cables for Railway Technology



marking example:
SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A R 4x2x24AWG 1767-4621 CE

Fulfils fire predection requirements
R15 (EL1A) acc. to EN 45545-2
for hazard levels HL1-3

Construction:	CATLine CAT 5e R flexible		CATLine CAT 6A R flexible	CATLine CAT 7A R flexible
Dimension:	2 x 2 x 26 AWG 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, pairs together		twisted to pairs with alu foil, pairs together
Wrapping:	foil			–
Screen:	alu foil and tinned copper braiding			tinned copper braiding
Sheath material:	special SABIX®			
Sheath colour:	green (similar RAL 6018)			

Technical data:	CATLine CAT 5e R flexible		CATLine CAT 6A R flexible	CATLine CAT 7A R flexible
Item number:	1567-2625 1567-9002 1567-9004	1567-4421	1667-4621	1767-4621
Peak operating voltage:	max. 90 V			
Testing voltage *core/core:* *core/screen:*	 750 V 750 V			
Min. bending radius *fixed laying:* *flexible application:*	 5 x d 12 x d			
Temperature range VDE *fixed laying:* *flexible application:*	 -40/+70 °C -30/+70 °C			
Halogen-free:	acc. to EN 50306-1 + EN 50264-1. Development of HCl is ≤ 0,5% acc. to IEC 60754-1. pH-value is ≥ 4,3 acc. to IEC 60754-2. Conductivity is ≤ 10,0 µS/mm acc. to IEC 60754-2. Fluoric content ≤ 0,1% acc. to IEC 60684-2			
Fire performance:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2. Flame retardant acc. to ISO 6722 (UN/ECE R118)			
Smoke density:	acc. to IEC 61034 + VDE 0482-1034			
Toxicity:	acc. to EN 50305 + VDE 0260-305			
Characteristic impedance:	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 / CAT 5		100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, fulfils the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Flexibility:	good			
Application:	suitable for EtherCAT and EtherNET/IP applications			
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“			

item no.	type	dimension	max. core-ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
15672625	CATLine CAT 5e R	2 x 2 x 26 AWG	1,05	4,0	16,4	25
15679002	CATLine CAT 5e R	2 x 2 x 24 AWG	1,30	5,2	22,7	41
15679004	CATLine CAT 5e R	2 x 2 x 22 AWG	1,60	5,9	29,1	52
15674421	CATLine CAT 5e R	4 x 2 x 24 AWG	1,30	8,0	41,2	70
16674621	CATLine CAT 6A R	4 x 2 x 26 AWG	1,05	6,8	31,9	55
17674621	CATLine CAT 7A R	4 x 2 x 26 AWG	1,60	7,8	38,5	75

Other dimensions and colours are possible on request.



Customized plug-and-play solutions
from cable manufacturing
to customized cable assembly
from a single source