

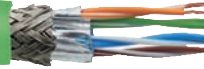
Ethernet Cables for Railway

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

Halogen-free continuous flex industrial Ethernet cables for railway technology



D-VIERSEN · 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

Construction:	CATLine CAT 5e R flex <i>continuous flex</i>		CATLine CAT 6A R flex <i>continuous flex</i>		CATLine CAT 7A R flex <i>continuous flex</i>	
Item numbers:	15692435 15692235	15694431 15694631	16694431 16694631	17694431 17694631		
Dimensions:	2 x 2 x 24 AWG 2 x 2 x 22 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	4 x 2 x 24 AWG 4 x 2 x 26 AWG		
Conductor:	bare copper strands, fine wires		bare copper strands, fine wires		bare copper strands, fine wires	
Insulation:	special SABIX®		special SABIX®		special SABIX®	
Color code:	blue, yellow, white, orange	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown			white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
Stranding:	star quad	conductors twisted to pairs, pairs together		twisted to pairs with alu foil, pairs together		
Wrapping:	foil		foil		—	
Shielding:	alu foil + tinned copper braiding		alu foil + tinned copper braiding		tinned copper braiding	
Jacket material:	special SABIX®		special SABIX®		special SABIX®	
Jacket color:	green (similar RAL 6018)		green (similar RAL 6018)		green (similar RAL 6018)	

Technical data:	CATLine CAT 5e R flex <i>continuous flex</i>		CATLine CAT 6A R flex <i>continuous flex</i>		CATLine CAT 7A R flex <i>continuous flex</i>	
Peak operating voltage:	max. 90 V		max. 90 V		max. 90 V	
Testing voltage:						
conductor/conductor:	750 V		750 V		750 V	
conductor/shielding:	750 V		750 V		750 V	
Min. bending radius:						
fixed installation:	5 x O.D.		5 x O.D.		5 x O.D.	
free movement:	12 x O.D.		12 x O.D.		12 x O.D.	
continuous flex:	15 x O.D.		15 x O.D.		15 x O.D.	
Temperature range VDE:						
static:	-50/+90°C		-50/+90°C		-50/+90°C	
flexible:	-40/+90°C		-40/+90°C		-40/+90°C	
Low smoke halogen-free (LSHF):	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					
Burning characteristics:	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		acc. to IEC 61034 + VDE 0482-1034		acc. to IEC 61034 + VDE 0482-1034	
Toxicity:	acc. to EN 50305 + VDE 0260-305		acc. to EN 50305 + VDE 0260-305		acc. to EN 50305 + VDE 0260-305	
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1		acc. to EN 50264-1 + VDE 0260-264-1		acc. to EN 50264-1 + VDE 0260-264-1	
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	
Flexibility:	good		good		good	
Application:	suitable for EtherCAT and EtherNET/IP applications					
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30					

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item no.	type	dimensions AWG	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 15692435	CATLine CAT 5e R flex	24 (≈ 14/34)/2pr	0.201	5.1	27
▶ 15692235	CATLine CAT 5e R flex	22 (≈ 7/30)/2pr	0.228	5.8	36
▶ 15694431	CATLine CAT 5e R flex	24 (≈ 14/34)/4pr	0.307	7.8	54
▶ 15694631	CATLine CAT 5e R flex	26 (≈ 18/38)/4pr	0.256	6.5	37
▶ 16694431	CATLine CAT 6A R flex	24 (≈ 14/34)/4pr	0.311	7.9	54
▶ 16694631	CATLine CAT 6A R flex	26 (≈ 18/38)/4pr	0.256	6.5	38
▶ 17694431	CATLine CAT 7A R flex	24 (≈ 14/34)/4pr	0.382	9.7	73
▶ 17694631	CATLine CAT 7A R flex	26 (≈ 18/38)/4pr	0.339	8.6	62

Other dimensions and colors are available on request



Fulfills fire protection requirements
R15 (EL1A) and R16 (EL1B)
 acc. to EN 45545-2
 for hazard levels HL1-3

Also possible as a cable assembly with M12 or RJ 45 plug

