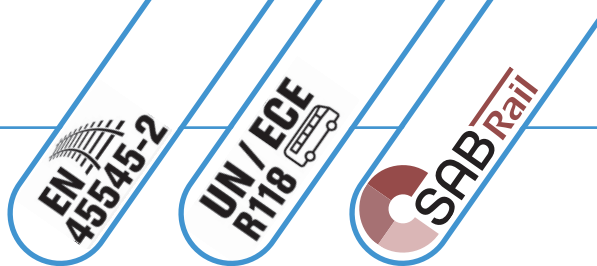


Ethernet Cables for Railway

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

Halogen-free industrial Ethernet cables
 for railway technology



D-VIERSEN · **CATLine** Cat. 7A R 4x2x24AWG 1767-4621 **CE**



Marking for CATLine CAT 7A R 17674621:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat. 7A R 4x2x24AWG 17674621 **CE**

Construction:	CATLine CAT 5e R <i>flexible</i>		CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
Item numbers:	15672625 15679002 15679004	15674421	16674621	17674621
Dimensions:	2 x 2 x 26 AWG 2 x 2 x 24 AWG 2 x 2 x 22 AWG	4 x 2 x 22 AWG	4 x 2 x 26 AWG	4 x 2 x 26 AWG
Conductor:	bare copper strands, fine wires		bare copper strands, fine wires	bare copper strands, fine wires
Insulation:	PE	PE	PE	PE
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	foil	—
Shielding:	alu foil + tinned copper braiding		alu foil + tinned copper braiding	tinned copper braiding
Jacket material:	special SABIX®	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 <i>flexible</i>	CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
Peak operating voltage:	max. 90 V	max. 90 V	max. 90 V
Testing voltage: conductor/conductor: conductor/shielding:	750 V 750 V	750 V 750 V	750 V 750 V
Min. bending radius: fixed installation: free movement:	5 x O.D. 12 x O.D.	5 x O.D. 12 x O.D.	5 x O.D. 12 x O.D.
Temperature range VDE: static: flexible:	-40/+70°C -30/+70°C	-40/+70°C -30/+70°C	-40/+70°C -30/+70°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
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
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		

item no.	type	dimensions AWG	max. cond.-ø mm	nominal outer-ø inch ± 5%	nominal outer-ø mm ± 5%	cable weight ≈lbs/mft
▶ 15672625	CATLine CAT 5e R	26 (≈ 18/38)/2pr	1.05	0.157	4.0	17
▶ 15679002	CATLine CAT 5e R	24 (≈ 14/34)/2pr	1.30	0.205	5.2	28
▶ 15679004	CATLine CAT 5e R	22 (≈ 7/30)/2pr	1.60	0.232	5.9	35
▶ 15674421	CATLine CAT 5e R	24 (≈ 14/34)/4pr	1.30	0.315	8.0	47
▶ 16674621	CATLine CAT 6A R	26 (≈ 18/38)/4pr	1.05	0.268	6.8	37
▶ 17674621	CATLine CAT 7A R	26 (≈ 18/38)/4pr	1.60	0.307	7.8	50

Other dimensions and colors are available on request



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

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



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