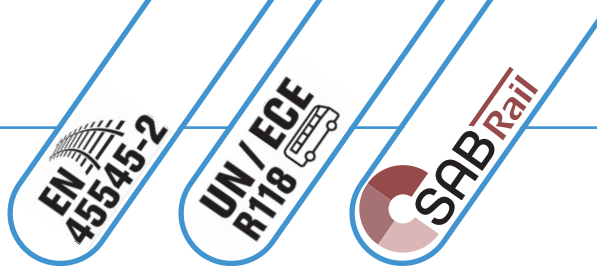


# Ethernet Cables for Railway

**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

<b>Construction:</b>	CATLine CAT 5e R <i>flexible</i>		CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
<b>Item numbers:</b>	15672625 15679002 15679004	15674421	16674621	17674621
<b>Dimensions:</b>	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
<b>Conductor:</b>	bare copper strands, fine wires		bare copper strands, fine wires	bare copper strands, fine wires
<b>Insulation:</b>	PE	PE	PE	PE
<b>Color code:</b>	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
<b>Stranding:</b>	star quad	conductors twisted to pairs, pairs together		twisted to pairs with alu foil, pairs together
<b>Wrapping:</b>	foil	foil	foil	—
<b>Shielding:</b>	alu foil + tinned copper braiding		alu foil + tinned copper braiding	tinned copper braiding
<b>Jacket material:</b>	special SABIX®	special SABIX®	special SABIX®	special SABIX®
<b>Jacket color:</b>	green (similar RAL 6018)		green (similar RAL 6018)	green (similar RAL 6018)

<b>Technical data:</b>	CATLine CAT 5e R <i>flexible</i>	CATLine CAT 6A R <i>flexible</i>	CATLine CAT 7A R <i>flexible</i>
<b>Peak operating voltage:</b>	max. 90 V	max. 90 V	max. 90 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	750 V 750 V	750 V 750 V	750 V 750 V
<b>Min. bending radius:</b> 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.
<b>Temperature range VDE:</b> static: flexible:	-40/+70°C -30/+70°C	-40/+70°C -30/+70°C	-40/+70°C -30/+70°C
<b>Low smoke halogen-free (LSHF):</b>	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		
<b>Burning characteristics:</b>	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)		
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034	acc. to IEC 61034 + VDE 0482-1034	acc. to IEC 61034 + VDE 0482-1034
<b>Toxicity:</b>	acc. to EN 50305 + VDE 0260-305	acc. to EN 50305 + VDE 0260-305	acc. to EN 50305 + VDE 0260-305
<b>Characteristic impedance:</b>	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
<b>Flexibility:</b>	good	good	good
<b>Application:</b>	suitable for EtherCAT and EtherNET/IP applications		
<b>Absence of harmful substances:</b>	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



www.sabcable.com  
 866-722-2974 ■ info@sabcable.com