

Bus cables

Selection table

		Cable type	CATLine CAT 6 S CATLine CAT 6A S	CATLine CAT 6 RT CATLine CAT 6A RT	CATLine CAT 6A HT / FEP	CATLine CAT 6A HT / PFA	CATLine CAT 7A S	CATLine CAT 7A RT	CATLine CAT 5e DR CATLine CAT 6A DR CATLine CAT 7A DR	CATLine CAT 5e R CATLine CAT 6A R CATLine CAT 7A R	CATLine CAT 5e R flex CATLine CAT 6A R flex CATLine CAT 7A R flex	CATLine CAT 5e BL CATLine CAT 6A BL CATLine CAT 7A BL
Basic construction	Screened		●	●	●	●	●	●	●	●	●	●
	Inner sheath											
Temperature range fixed laying*	+ 250 °C											
	+ 180 °C											
	+ 90 °C											
	+ 85 °C											
	+ 80 °C											
	+ 75 °C											
	+ 70 °C											
	- 30 °C											
	- 40 °C											
	- 50 °C											
	- 90 °C											
Voltage	Peak operating voltage max. 30 V											
	Peak operating voltage max. 50 V											
	Peak operating voltage max. 90 V		●	●	●	●	●	●	●	●	●	●
	Peak operating voltage max. 350 V											
	Voltage UL 30 V											
	Voltage UL resp. CSA 300 V		●	●			●	●				●
	Voltage UL resp. CSA 600 V				●	●						
	Testing voltage 600 V								●	●	●	
	Testing voltage 750 V					●						
	Testing voltage 1000 V											
	Testing voltage 1500 V											
	Testing voltage 2000 V		●	●	●		●	●				
	Testing voltage 3000 V											
Standards and approvals	Fire performance											
	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●	●			●	●	●			●
	Halogen-free for rail types									●	●	
	Low temperature resistant acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●		●	●	●
	No flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D											
	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									●	●	
	No flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A											●
	Flame retardant ISO 6722 (UN/ECE R118)									●	●	
	UL Horizontal Flame Test FT2		●	●			●	●				●
	UL VW1				●							
	acc. to NF C 32-070 C1											
	Corrosiveness of conflagration gases: in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases											●
	Smoke density acc. to IEC 61034 + VDE 0482-1034									●	●	●
	Toxicity acc. to EN 50305 + VDE 0260-305									●	●	●
Characteristics	UL recognized		●	●	●		●	●				●
	CSA recognized		●	●			●	●				●
	ABS recognized											●
	Rail type acc. to EN 45545-2									●	●	
	Oil resistance acc. to internal standard											
	Oil resistance acc. to VDE		●	●			●	●	●			●
	Oil resistance acc. to EN		●	●			●	●	●			●
	Chemical resistance				A	A						
	Weather resistance								A			
	Suitable for cable tracks		●				●					
	Torsion angle			2			2					
	Flexibility		A	A			A	A		B	B	B



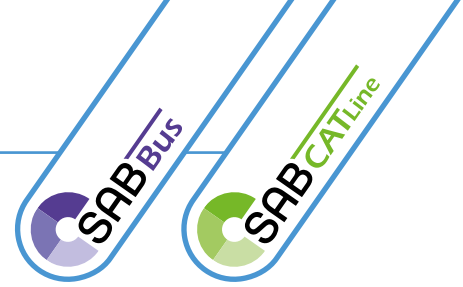
A = very good
B = good
C = medium

1 = up to ± 360°/m
2 = up to ± 180°/m

*The temperature range for flexible application is mentioned on the corresponding catalogue page

Bus cables

Selection table



		Cable type	PN 662	S PN 668	PN 663	S PN 669	PN 654	PN 654 UL	PN 660	PN 661	S PN 667	DR PN 689 P Highflex	RT PN 668	PN 668	CATLine SPE C-Track	CATLine SPE Robot	CATLine SPE HT	CATLine SPE Rugged	CATLine SPE C-Track Hybrid
Basic construction	Screened		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Inner sheath		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Temperature range fixed laying*	+ 250 °C																		
	+ 180 °C																		
	+ 90 °C																		
	+ 85 °C																		
	+ 80 °C																		
	+ 75 °C																		
	+ 70 °C																		
	- 30 °C																		
	- 40 °C																		
	- 50 °C																		
	- 90 °C																		
Voltage	Peak operating voltage max. 30 V													●					
	Peak operating voltage max. 50 V																		
	Peak operating voltage max. 90 V																		
	Peak operating voltage max. 350 V		●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●
	Voltage UL 30 V																		
	Voltage UL resp. CSA 300 V				●	●		●		●	●			●	●	●			●
	Voltage UL resp. CSA 600 V																		
	Testing voltage 600 V																		
	Testing voltage 750 V																	●	
	Testing voltage 1000 V																		
	Testing voltage 1500 V		●	●			●		●		●	●	●		●	●	●		●
	Testing voltage 2000 V				●	●		●		●	●			●	●	●	●		●
	Testing voltage 3000 V																		
Standards and approvals	Fire performance																		
	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1			●		●			●	●	●	●	●	●	●	●			●
	Halogen-free for rail types																		
	Low temperature resistant acc. to IEC 60332-1-2 + VDE 0482-332-1-2																		
	No flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D																		
	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																		
	No flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																		
	Flame retardant ISO 6722 (UN/ECE R118)																		
	UL Horizontal Flame Test FT2																		
	UL VW1																		
	acc. to NF C 32-070 C1																		
	Corrosiveness of conflagration gases: in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases																		
	Smoke density acc. to IEC 61034 + VDE 0482-1034																		
	Toxicity acc. to EN 50305 + VDE 0260-305																		
	UL recognized			●		●		●		●	●	●	●	●	●	●			●
	CSA recognized																		
	ABS recognized																		
	Rail type acc. to EN 45545-2																		
Characteristics	Oil resistance acc. to internal standard		●		●		●	●											
	Oil resistance acc. to VDE			●		●					●	●	●	●	●	●			●
	Oil resistance acc. to EN			●		●					●	●	●	●	●	●		●	●
	Chemical resistance																		
	Weather resistance																		
	Suitable for cable tracks			●		●					●				●				●
	Torsion angle												1	1		2			
	Flexibility																		



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		Cable type	USB 3.0 S	USB 3.0 RT	USB 3.0 M	USB 2.0	USB 2.0 UL	USB 2.0 FRNC	USB 2.0 S	USB 2.0 S UL/CSA	USB 2.0 RT UL/CSA	SABIX® USB 2.0 R flex	SABIX® PB 630 FRNC	S PB 634	PB 632	PB 640	PB 640 UL	S PB 640	S PB 640 UL	PB 642	S PB 644
Basic construction	Screened		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Inner sheath		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Temperature range fixed laying*	+ 250 °C																				
	+ 180 °C																				
	+ 90 °C																				
	+ 85 °C																				
	+ 80 °C																				
	+ 75 °C																				
	+ 70 °C																				
	- 30 °C																				
	- 40 °C																				
	- 50 °C																				
	- 90 °C																				
Voltage	Peak operating voltage max. 30 V																				
	Peak operating voltage max. 50 V																				
	Peak operating voltage max. 90 V																				
	Peak operating voltage max. 350 V		•	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•
	Voltage UL 30 V		•	•																	
	Voltage UL resp. CSA 300 V		•	•			•			•	•						•		•		
	Voltage UL resp. CSA 600 V																				
	Testing voltage 600 V				•	•			•			•									
	Testing voltage 750 V																				
	Testing voltage 1000 V																				
	Testing voltage 1500 V							•					•	•	•	•		•		•	•
	Testing voltage 2000 V		•	•						•	•						•		•		
	Testing voltage 3000 V																				
Standards and approvals	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1							•	•	•			•								
	Halogen-free for rail types											•									
	Low temperature resistant acc. to IEC 60332-1-2 + VDE 0482-332-1-2		•	•				•				•	•		•	•	•	•	•		
	No flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D											•									
	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											•									
	No flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A												•								
	Flame retardant ISO 6722 (UN/ECE R118)											•									
	UL Horizontal Flame Test FT2																				
	UL VW1																				
	acc. to NF C 32-070 C1																				
	Corrosiveness of conflagration gases: in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases												•								
	Smoke density acc. to IEC 61034 + VDE 0482-1034											•									
	Toxicity acc. to EN 50305 + VDE 0260-305											•									
	UL recognized		•	•			•			•	•						•		•		
	CSA recognized									•	•								•		
	ABS recognized																				
Characteristics	Rail type acc. to EN 45545-2											•									
	Oil resistance acc. to internal standard					•	•								•	•	•			•	
	Oil resistance acc. to VDE		•	•					•	•	•	•		•				•	•		•
	Oil resistance acc. to EN								•	•	•	•						•	•		•
	Chemical resistance																				
	Weather resistance												B	A	C					C	A
	Suitable for cable tracks		•						•	•								•	•		•
	Torsion angle			2								2									



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		Cable type	SABIX® CB 624 FRNC C1	CB 627	S CB 628	DR CB 689 P Highflex	DN 650	DN 657	DN 658	DN 658 robot cable/Drop	S IBS 616	S IBS 618	SBP 680	S SBP 684 Move
Basic construction	Screened		●	●	●	●	●	●	●	●	●	●	●	●
	Inner sheath				●									
Temperature range fixed laying*	+ 250 °C													
	+ 180 °C													
	+ 90 °C													
	+ 85 °C													
	+ 80 °C													
	+ 75 °C													
	+ 70 °C													
	- 30 °C													
	- 40 °C													
	- 50 °C													
	- 90 °C													
Voltage	Peak operating voltage max. 30 V													
	Peak operating voltage max. 50 V													
	Peak operating voltage max. 90 V													
	Peak operating voltage max. 350 V		●	●	●	●	●	●	●	●	●	●	●	●
	Voltage UL 30 V													
	Voltage UL resp. CSA 300 V			●	●							●		
	Voltage UL resp. CSA 600 V													
	Testing voltage 600 V													
	Testing voltage 750 V													
	Testing voltage 1000 V										●			
	Testing voltage 1500 V		●			●	●	●					●	●
	Testing voltage 2000 V			●	●				●	●		●		
	Testing voltage 3000 V													
Standards and approvals	Fire performance													
	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●		●	●		●			●	●	●	●
	Halogen-free for rail types													
	Low temperature resistant acc. to IEC 60332-1-2 + VDE 0482-332-1-2			●	●							●		
	No flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D		●											
	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													
	No flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A													
	Flame retardant ISO 6722 (UN/ECE R118)													
	UL Horizontal Flame Test FT2													
	UL VW1													
	acc. to NF C 32-070 C1		●											
	Corrosiveness of conflagration gases: in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases		●											
	Smoke density acc. to IEC 61034 + VDE 0482-1034		●											
	Toxicity acc. to EN 50305 + VDE 0260-305													
	UL recognized			●	●		●		●	●		●		
	CSA recognized													
	ABS recognized													
	Rail type acc. to EN 45545-2													
Characteristics	Oil resistance acc. to internal standard													
	Oil resistance acc. to VDE			●	●	●					●	●	●	●
	Oil resistance acc. to EN				●	●					●	●	●	●
	Chemical resistance				B									
	Weather resistance			C	A						A	A		
	Suitable for cable tracks				●						●	●		●
	Torsion angle									2				
	Flexibility		B	B	A						A	A		A



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