

		Cable type	IBS 612	IBS 617	IBS 614	S IBS 616	S IBS 618	SABIX® IBS 610	SABIX® IBS 610 FRNC	SABIX® IBL 600 FRNC	IBL 600	SABIX® IBL 600	S IBL 605	S CB 626	S CB 625	SABIX® CB 620	SABIX® CB 620 FRNC	SABIX® CB 624 FRNC C1	CB 627	S CB 628		
Basic construction	Screened		●	●	●	●	●	●	●					●	●	●	●	●	●	●		
	Inner sheath		●	●	●	●	●	●	●					●	●	●	●	●	●	●		
	Optical waveguide POF																					
Temperature range fixed laying*	+ 180 °C																					
	+ 90 °C																					
	+ 85 °C																					
	+ 80 °C																					
	+ 75 °C																					
	+ 70 °C																					
	- 30 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	- 40 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	- 50 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
- 90 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Voltage	Nominal voltage 300/500 V																					
	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																					
	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●		●		●		●									●	●	
	Fire performance: no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D								●	●								●	●			
	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																					
	Fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																					
	Fire performance: UL Horizontal Flame Test FT2																					
	Fire performance: UL VW1																					
	Fire performance: acc. to NFC 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 approved																					
ABS approved																						
Rail type acc. to DIN EN 45545-2																						
Characteristics	Oil resistance acc. to internal standard		●		●																	
	Oil resistance acc. to VDE			●		●	●				●		●	●	●					●	●	
	Oil resistance acc. to EN					●	●	●				●	●	●	●						●	
	Chemical resistance												B	B	B						B	
	Weather resistance		C	C	C	A	A	B	B	B	C	B	A	A	A	A					C	A
	Suitable for cable tracks					●	●						●	●	●							●
	Torsion angle																					
	Flexibility		B	B	B	A	A	A	B	B			A	A	A	A	B	B	B	B	B	A



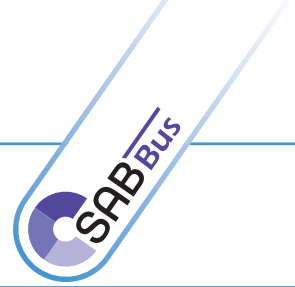
A = very good  
B = good  
C = medium

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	DN 650	DN 651	DN 656	DN 657	DN 658	DN 659	DN 658 robot cable/Drop	SABIX® PB 630	SABIX® PB 630 FRNC	PB 630	PB 631	PB 636	PB 637	PB 639	PB 635	S PB 634	PB 633	PB 632	PB 640	PB 640 UL	S PB 640	S PB 640 UL	
Basic construction	Screened		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Inner sheath		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Optical waveguide POF																				•	•	•	•	
Temperature range fixed laying*	+ 180 °C																								
	+ 90 °C																								
	+ 85 °C																								
	+ 80 °C																								
	+ 75 °C																								
	+ 70 °C																								
	- 30 °C																								
	- 40 °C																								
	- 50 °C																								
- 90 °C																									
Voltage	Nominal voltage 300/500 V																								
	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																								
	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2										•	•		•	•	•	•			•	•	•	•	•	
	Fire performance: no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D										•														
	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																								
	Fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																								
	Fire performance: UL Horizontal Flame Test FT2																								
	Fire performance: UL VW1																								
	Fire performance: acc. to NFC 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 approved																								
	ABS approved																								
	Rail type acc. to DIN 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									2															
	Flexibility																								

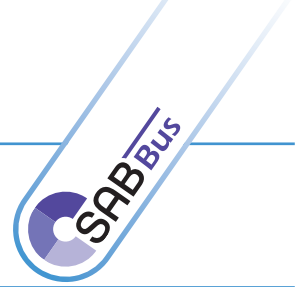


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2 = up to ± 180°/m

\*Temperaturbereich bewegt siehe jeweilige Katalogseite





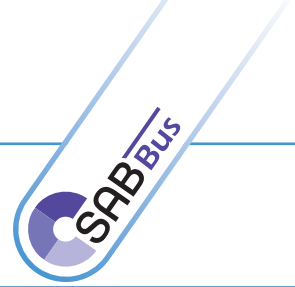
	Cable type	PB 642	S PB 644	SBP 680	S SBP 684 Move	S 670	S 671	USB 2.0	USB 2.0 UL	USB 2.0 FRNC	USB 2.0 S	USB 2.0 S UL/CSA	USB 2.0 RT UL/CSA	SABIX® USB 2.0 R flex	USB 3.0 S	USB 3.0 RT	USB 3.0	USB 3.0 M
Basic construction	Screened	●	●		●			●	●	●	●	●	●	●	●	●	●	●
	Inner sheath																	
	Optical waveguide POF					●	●											
Temperature range fixed laying	+ 180 °C																	
	+ 90 °C																	
	+ 85 °C																	
	+ 80 °C																	
	+ 75 °C																	
	+ 70 °C																	
	- 30 °C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 40 °C																	
	- 50 °C																	
	- 90 °C																	
Voltage	Nominal voltage 300/500 V					●	●											
	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													●				
	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2					●	●			●				●	●	●	●	
	Fire performance: no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D																	
	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														●			
	Fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																	
	Fire performance: UL Horizontal Flame Test FT2																	
	Fire performance: UL VW1																	
	Fire performance: acc. to NFC C32-070 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 approved																	
	ABS approved																	
Rail type acc. to DIN EN 45545-2														●				
Characteristics	Oil resistance acc. to internal standard	●						●	●									
	Oil resistance acc. to VDE		●	●	●	●												
	Oil resistance acc. to EN		●	●	●	●											●	●
	Chemical resistance																	
	Weather resistance	C	A															
	Suitable for cable tracks		●		●								●			●		
	Torsion angle													2			1	
	Flexibility					A												



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		Cable type	PN 662	S PN 668	PN 663	S PN 669	PN 654	PN 654 UL	PN 660	PN 661	S PN 667	PN 678	PN 679	S PN 681	DR PN 689 P Highflex	DR CB 689 P Highflex	S PN 668 Hybrid	RT PN 668	
Basic construction	Screened		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Inner sheath		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Optical waveguide POF																		
Temperature range fixed laying*	+ 180 °C																		
	+ 90 °C																		
	+ 85 °C																		
	+ 80 °C																		
	+ 75 °C																		
	+ 70 °C																		
	- 30 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 40 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 50 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 90 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Voltage	Nominal voltage 300/500 V																		
	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																		
	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2																	●	
	Fire performance: no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D																		
	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																		
	Fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																		
	Fire performance: UL Horizontal Flame Test FT2																		
	Fire performance: UL VW1																		
	Fire performance: acc. to NFC 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 approved																		
	ABS approved																		
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																	2	
	Flexibility																		



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# Bus Cables

## Selection table



E  
12

		Cable type	CATLine CAT 6 S	CATLine CAT 6A S	CATLine CAT 6 RT	CATLine CAT 6A RT	CATLine CAT 6A HT	CATLine CAT 7A S	CATLine CAT 7A RT	CATLine CAT 5e DR	CATLine CAT 6A DR	CATLine CAT 7A DR	CATLine SPE C-Track	CATLine SPE Robot	CATLine SPE HT	CATLine SPE Rugged	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																									
	Optical waveguide POF																									
Temperature range fixed laying	+ 180 °C						●																			
	+ 90 °C						●																			
	+ 85 °C						●																			
	+ 80 °C						●																			
	+ 75 °C						●																			
	+ 70 °C						●																			
	- 30 °C						●																			
	- 40 °C						●																			
	- 50 °C						●																			
- 90 °C						●																				
Voltage	Nominal voltage 300/500 V																									
	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																									
	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●	●	●	●	●	●	●												
	Fire performance: no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D																									
	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																									
	Fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A																									
	Fire performance: UL Horizontal Flame Test FT2		●	●		●	●		●	●																
	Fire performance: UL VW1						●																			
	Fire performance: acc. to NFC 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 approved		●	●					●	●																
	ABS approved																									
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						A																			
	Weather resistance																									
	Suitable for cable tracks		●						●				●													
	Torsion angle			2					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

