

		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	DR CB 689 P Highflex	
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																					
	flame retardant and self-extinguishing 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 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												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	A	



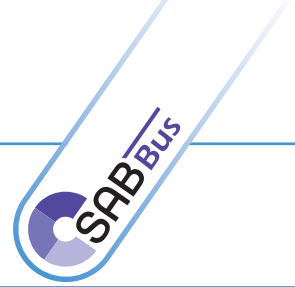
A = very good
B = good
C = medium

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	Fire performance	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1								●	●		●													
		Halogen-free for rail types																								
		flame retardant and self-extinguishing 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 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										B	B	C	B	B	A	B	B	A	B	C					
	Suitable for cable tracks																						●	●		
	Torsion angle									2																
Flexibility																										

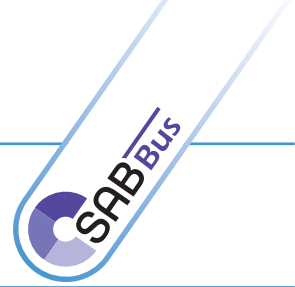


A = very good
B = good
C = medium

1 = up to ± 360°/m
2 = up to ± 180°/m

*Temperaturbereich bewegt siehe jeweilige Katalogseite





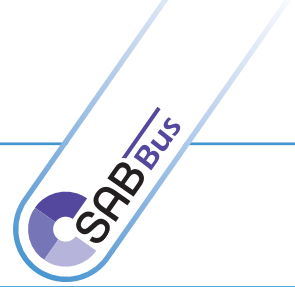
		Cable type	PB 642	S PB 644	SBP 680	S SBP 684 Move	S 670	S 671	USB 2.0	USB 2.0 UL	USB 2.0 FRNC	USB 2.0 S	USB 2.0 S UL/CSA	USB 2.0 RT UL/CSA	SABIX® USB 2.0 R flex	USB 3.0 S	USB 3.0 RT	USB 3.0	USB 3.0 M	
Basic construction	Screened		●	●		●			●	●	●	●	●	●	●	●	●	●	●	●
	Inner sheath																			
	Optical 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														●					
	flame retardant and self-extinguishing 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 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		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	RT PN 668	PN 668	S PN 668 Hybrid	
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	Fire performance																		
	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1			●		●			●	●	●		●	●	●	●	●	●	
	Halogen-free for rail types																		
	flame retardant and self-extinguishing 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 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															1	1	2	
	Flexibility																		



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		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																									
	- 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	Fire performance	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1	•	•				•	•	•			•	•												
		Halogen-free for rail types																								
		flame retardant and self-extinguishing 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 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																									
	Flexibility		A	A			A	A															B	B	B	



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2 = up to ± 180°/m

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