

Halogen-free Cables

Selection table

		Cable type	SABIX® A 146 FRNC	SABIX® A 156 FRNC	SABIX® A 166 FRNC	SABIX® A 147 FRNC	SABIX® A 157 FRNC	SABIX® A 100 HT	SABIX® A 101 HT	SABIX® A 200 FRNC	SABIX® A 205 FRNC	SABIX® A 224 FRNC C1	SABIX® A 226 C FRNC C1	SABIX® A 238 FRNC	SABIX® A 260 PUR	SABIX® A 130 HT
Basic construction	Single conductors		●	●	●	●	●	●	●							
	screened												●	●		
	coloured cores										●					●
	numbered cores									●		●	●	●	●	●
	twisted pairs															
	Inner sheath															
Temperature range fixed laying*	+220 °C															
	+ 90 °C															
	+ 85 °C															
	- 30 °C															
	- 40 °C															
	- 50 °C															
Voltage	Peak operating voltage: < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V															
	Nominal voltage Uo/U 300/500 V		●			●		●	●	●	●			●	●	●
	Nominal voltage Uo/U 450/750 V			●			●					●	●			
	Nominal voltage Uo/U 0,6/1 kV				●											
	Voltage UL resp. CSA 600 V					●										
	Voltage UL resp. CSA 1000 V						●									
	Testing voltage 1500 V															
	Testing voltage 2000 V		●			●		●	●							●
	Testing voltage 2500 V			●			●						●			
	Testing voltage 3000 V				●					●	●	●		●	●	
	Testing voltage 4000 V															
Standards	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	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 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: Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●	●	●	●	●	●	●		●
	Fire performance acc. to NF C 32-070 C1											●	●			
	Fire performance acc. to CSA FT1															
	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 + EN 61034		●	●	●	●	●			●	●	●	●	●		
	UL recognized, CSA approved					●	●									
Special features	Very good oil resistance acc. to EN 50363-10-2 + DIN VDE 0207-363-10-2														●	
	good chemical resistance														●	



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

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		Cable type	SABIX® CC 625 FRNC M	SABIX® CC 625 S FRNC M	SABIX® CC 625 SH FRNC M	SABIX® A 810 FRNC	SABIX® A 812 C FRNC	SABIX® D 305 FRNC	SABIX® D 315 FRNC	SABIX® D 320 FRNC C1	SABIX® D 345 FRNC TP
Basic construction	Single conductors										
	screened			●	●		●		●	●	●
	coloured cores							●	●	●	●
	numbered cores		●	●	●	●	●				
	twisted pairs									●	●
	Inner sheath				●		●				
Temperature range fixed laying*	+220 °C										
	+ 90 °C		●	●	●	●	●	●	●	●	●
	+ 85 °C		●	●	●	●	●	●	●	●	●
	- 30 °C		●	●	●	●	●	●	●	●	●
	- 40 °C		●	●	●	●	●	●	●	●	●
	- 50 °C		●	●	●	●	●	●	●	●	●
Voltage	Peak operating voltage: < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V							●	●	●	●
	Nominal voltage U ₀ /U 300/500 V		●	●	●						
	Nominal voltage U ₀ /U 450/750 V										
	Nominal voltage U ₀ /U 0,6/1 kV					●	●				
	Voltage UL resp. CSA 600 V		●	●	●						
	Voltage UL resp. CSA 1000 V										
	Testing voltage 1500 V							●	●	●	●
	Testing voltage 2000 V										
	Testing voltage 2500 V										
	Testing voltage 3000 V		●	●	●						
	Testing voltage 4000 V					●	●				
Standards	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●	●	●	●	●	●	●	●	●
	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 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: Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●	●	●	●
	Fire performance acc. to NF C 32-070 C1									●	
	Fire performance acc. to CSA FT1		●	●	●						
	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 + EN 61034		●	●	●	●	●	●	●	●	●
	UL recognized, CSA approved		●	●	●						
Special features	Very good oil resistance acc. to EN 50363-10-2 + DIN VDE 0207-363-10-2										
	good chemical resistance										



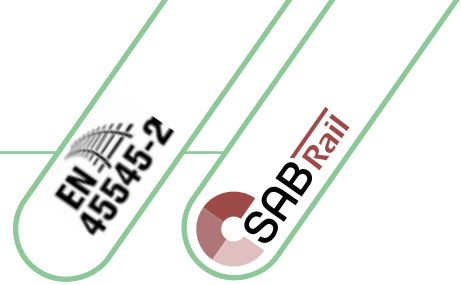
from
to

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Cables for Railway Technology acc. to EN 45545-2



		Cable type	SABIX® R 600 FRNC	SABIX® R 638 FRNC	SABIX® R 605 FRNC	SABIX® R 615 FRNC	SABIX® R 645 FRNC TP	SABIX® R flex	SAB RailLine 560	SABIX® A 280 FRNC X	SABIX® A 285 FRNC X	SABIX® A 280 FRNC X (FR)
Applications	Single conductor											
	Multi-core cable		●	●	●	●	●	●	●	●	●	●
	screened			●		●	●	●	●		●	
	Wiring cable									●		
	Data cable				●	●	●					
	Control cable		●	●				●	●	●	●	●
	cross linked type								●	●	●	●
Standards	Halogen-free	geprüft nach EN 45545-2	●	●	●	●	●	●	●	●	●	●
	Fire performance	acc. to EN 50306-1 + EN 50264-1 are fulfilled. 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	●	●	●	●	●	●	●	●	●	●
		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 UL 1685 section 12, FT4/IEEE 1202 (NFPA 130)			●	●	●					
		Burning test acc. to ASTM E 162-09				●	●					
		Flame retardant ISO 6722 (UN/ECE R118)	●	●	●	●	●	●	●			
		Insulation integrity in case of fire acc. to EN 50200 PH 30, VDE 0482-200, IEC 60331-21 FE 180 + VDE 0482-331-21										●
		Toxicity acc. to EN 50305 + VDE 0260-305	●	●	●	●	●	●	●	●	●	●
		Smoke density acc. to IEC 61034 + VDE 0482-1034	●	●	●	●	●	●	●	●	●	●
		Smoke density acc. to ASTM E 662-09				●	●					
		Oil and fuel resistance acc. to EN 50264-1 + VDE 0260-264-1						●	●			
		Ozone, UV and weather resistance						●	●			
Temperature range fixed laying*	+125 °C											
	+ 90 °C		●	●	●	●	●	●	●	●	●	●
	- 40 °C		●	●	●	●	●	●	●	●	●	●
	- 50 °C		●	●	●	●	●	●	●	●	●	●
Voltage	Peak operating voltage: < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V				●	●	●					
	Nominal voltage U ₀ /U 300/500 V		●	●				●	●	●	●	●
	Nominal voltage U ₀ /U 0.6/1 kV								●			
	Testing voltage 1500 V				●	●	●					
	Testing voltage 2000 V							●	●	●	●	●
	Testing voltage 3000 V		●	●								
	Testing voltage 4000 V								●			



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Cables for Shipbuilding



		Cable type	SABIX® BL 405 FRNC	SABIX® BL 415 C FRNC	SABIX® BL 443 C FRNC TT	SABIX® BL 445 C FRNC TP	SABIX® BL 446 C FRNC FTP	SABIX® BL 400 FRNC	SABIX® BL 438 C FRNC	SABIX® BL 402 FRNC	SABIX® BL 408 FRNC	SABIX® BL 409 C FRNC	SABIX® BL 410 FRNC	SABIX® BL 412 C FRNC
Construction	Data cable		●	●	●	●	●							
	Control cable							●	●					
	Power cable									●	●	●	●	●
	screened			●	●	●	●		●			●		●
	twisted pairs					●	●							
	twisted triple				●									
Temperature range fixed laying*	+ 90°C													
	– 40°C													
Voltage range	Peak operating voltage max. 300 V				●		●							
	Peak operating voltage max. 350 V		●	●		●								
	Nominal voltage U ₀ /U 300/500 V							●	●					
	Nominal voltage U ₀ /U 0,6/1 kV									●	●	●	●	●
	Testing voltage 1500 V		●	●	●	●	●							
	Testing voltage 2000 V							●	●					
	Testing voltage 4000 kV									●	●	●	●	●
Standards	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●	●	●	●	●	●	●	●	●	●	●	●
	Fire performance: No flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A		●	●	●	●	●	●	●	●	●	●	●	●
	Fire performance: Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2		●	●	●	●	●	●	●	●	●	●	●	●
	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		●	●	●	●	●	●	●	●	●	●	●	●
Type approvals	DNV		●	●	●	●	●	●	●	●	●	●	●	●
Characteristics	flexible conductor stranding		●	●	●	●	●	●	●				●	●
	extended cross section range		●	●		●								

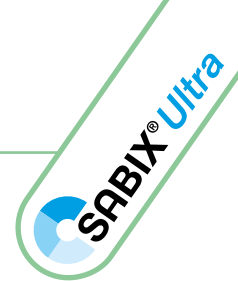


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continuously flexible with highest fire protection



		Cable type	SABIX® SD 705 FRNC C1	SABIX® SD 715 C FRNC C1	SABIX® SD 745 C FRNC C1 TP	SABIX® S 710 FRNC C1	SABIX® S 712 C FRNC C1
Construction	Data cable		●	●	●		
	Control cable					●	●
	screened			●	●		●
	twisted pairs				●		
Temperature range fixed laying*	+ 90 °C						
	– 40 °C						
Voltage range	Peak operating voltage < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V		●	●	●		
	Nominal voltage 0,6/1 kV					●	●
	Testing voltage 1500 V		●	●	●		
	Testing voltage 4000 V					●	●
Standards	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1		●	●	●	●	●
	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D		●	●	●	●	●
	Flame retardant and self-extinguishing acc. to IEC 60332-1-2, VDE 0482-332-1-2		●	●	●	●	●
	Fire performance 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		●	●	●	●	●
	Oil and fuel resistance acc. to EN 50264-1 + VDE 0260-264-1		●	●	●	●	●
	good UV, ozone and weather resistance		●	●	●	●	●
	good mycological resistance		●	●	●	●	●



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