



Selection table

Cables for Railway Technology acc. to EN 45545-2

		Cable type	SABIX® A 146 FRNC	SABIX® A 156 FRNC	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	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	SABIX® A 280 FRNC X	SABIX® A 285 FRNC X	SABIX® A 280 FRNC X (FR)	R 107	SABIX® USB 2.0 R flex		
Applications	Single conductor		●	●														●				●		
	Multi-core cable				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
	screened																							
	Wiring cable		●	●																				
	Data cable							●	●	●														
	Control cable					●	●				●	●							●	●	●			
	Ethernet cable													●										
	USB 2.0 cable																							●
cross linked type											●							●	●	●				
Standards	tested acc. to EN 45545-2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0,5% acc. to DIN EN 50267-2-1. pH-value is > 4,3 acc. to DIN EN 50267-2-2. Conductivity is < 10,0 µS/mm acc. to DIN EN 50267-2-2. Fluoric content < 0,1% acc. to DIN EN 60684-2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	No flame propagation acc. to IEC 60332-3-24, IEC 60332-3-25 + EN 50305 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 acc. to 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										●	●				●								●
	good ozone, UV and weather resistance										●	●												●
Temperature range fixed laying*	+250 °C																							
	+180 °C																							
	+125 °C																							
	+ 90 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	+ 70 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 40 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 50 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Voltage	Peak operating voltage max. 30 V																							
	Peak operating voltage max. 90 V											●	●										●	
	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											●												
	Nominal voltage U ₀ /U 1,8/3 kV																						●	
	Testing voltage 600 V																							●
	Testing voltage 1500 V							●	●	●														
	Testing voltage 2000 V		●								●	●							●	●	●			
	Testing voltage 2500 V			●																				
	Testing voltage 3000 V				●	●																		
Testing voltage 4000 V											●													
Testing voltage 6500 V																							●	

from
 to
 short time use

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