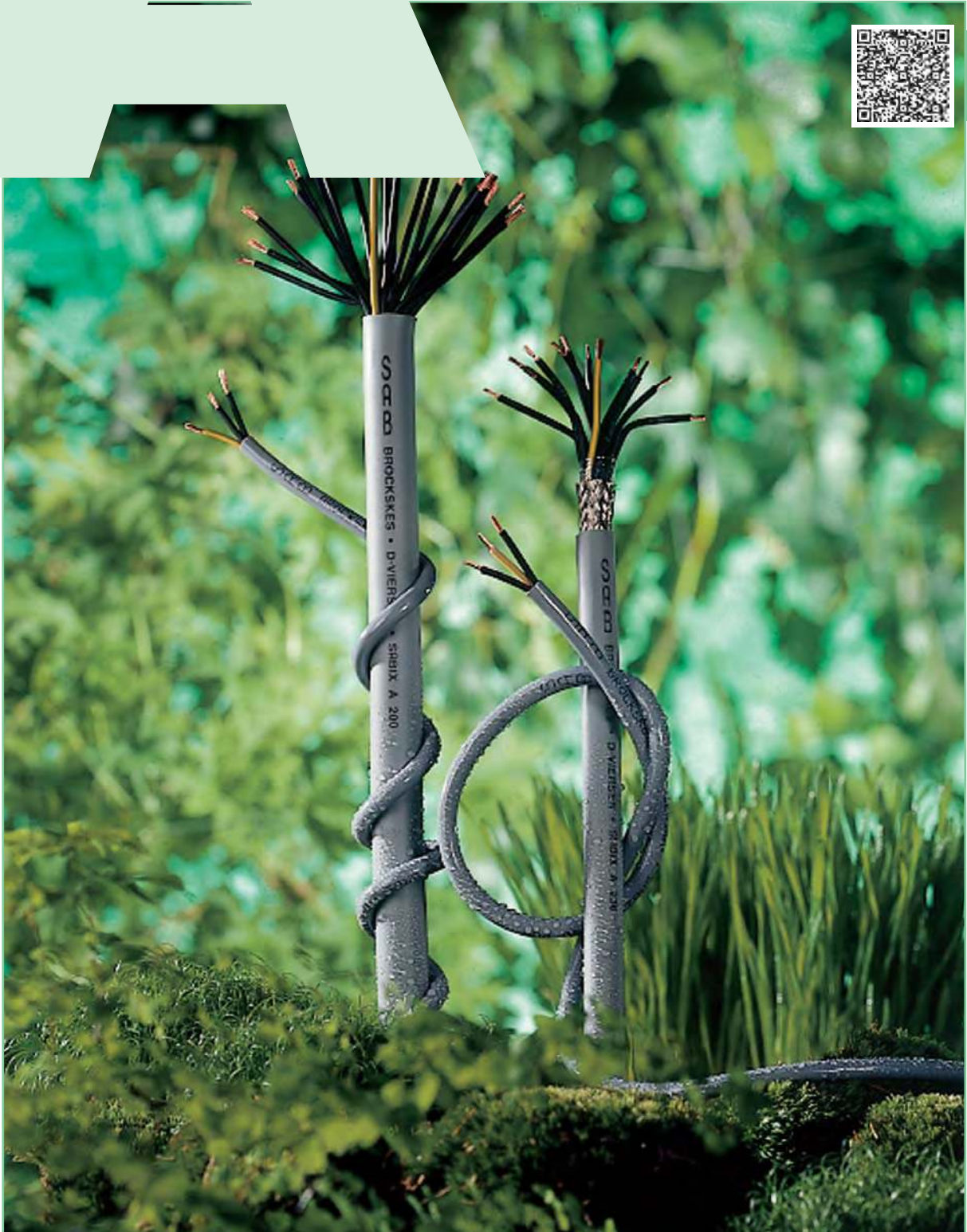



# Halogen-free Cables



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TP: Twisted Pairs

You will find halogen-free Ethernet cables especially for use in rail vehicles in chapter E

You will find Besilen® insulated strands for use in rail vehicles in chapter K

# HALOGEN-FREE CABLES

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### Halogen-free cables especially for use in rail vehicles acc. to EN 50306

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■ SABIX® A 871 TWÖ	"Thinwall" connection and data cable, construction with reference to EN 50306	A/60
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### SABIX® BlueLine - Cables for marine use

#### SABIX® BlueLine Data

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**NEW**

**NEW**

#### SABIX® BlueLine Control

■ SABIX® BL 400 FRNC	SABIX® BlueLine Control - flexible control cable 300/500 V	A/68
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#### SABIX® BlueLine Power

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■ SABIX® BL 409 C FRNC	SABIX® BlueLine Power - flexible power cable with overall copper screen 0.6/1 kV	A/72
■ SABIX® BL 410 FRNC	SABIX® BlueLine Power - flexible power cable 0.6/1 kV	A/73
■ SABIX® BL 412 C FRNC	SABIX® BlueLine Power - flexible power cable with overall copper screen 0.6/1 kV	A/74

**NEW**

**NEW**

**NEW**

**BlueLine TA 180 C - You will find FEP connection cable especially for maritime use in chapter D**

**You will find Industrial Ethernet Cables especially for maritime use in chapter E**



### SABIX® Ultra - continuously flexible with highest fire protection

■ SABIX® SD 705 FRNC C1	Continuously flexible data cable with extended temperature range	A/75
■ SABIX® SD 715 C FRNC C1	Continuously flexible data cable with extended temperature range and overall copper screen	A/76
■ SABIX® SD 745 C FRNC C1 TP	Paired, continuously flexible data cable with extended temperature range and overall copper screen	A/77
■ SABIX® S 710 FRNC C1	Continuously flexible control cable with extended temperature range	A/78
■ SABIX® S 712 C FRNC C1	Continuously flexible control cable with extended temperature range and overall copper screen	A/79

TP: Twisted Pairs

**SABIX®** cables can be fully recycled and in separate components newly supplied to the resource cycle. Cables with FRNC outer sheath avoid flame propagation in case of local flaming and are flame retardant and self-extinguishing acc. to VDE, EN and IEC. They fulfil the smoke density acc. to IEC, EN, VDE and BS.

## Applications

### ■ Application of halogen-free SABIX® single conductors and wiring cables

These single conductors are installed in applications where high flexibility halogen-free cables are required. The various versions of these cables offer excellent characteristics such as oil resistance, low temperature flexibility, heat resistance, hot-air resistance, weather resistance, being halogen-free.

#### Exemplary applications:

<b>SABIX® A 146 S</b> <b>SABIX® A 146 FRNC</b> <b>SABIX® A 156 S</b> <b>SABIX® A 156 FRNC</b> <b>SABIX® A 170 TWÖ</b> <b>SABIX® A 166 FRNC</b> <b>SABIX® A 147 FRNC</b> <b>SABIX® A 157 FRNC</b>	Production of control cabinets, appliances and devices for communication technologies, household appliances, construction of generators and transformers, machine construction, railway technologies: furthermore, the FRNC type is particularly suitable for internal wiring of rail vehicles
<b>SABIX® A 100 HT</b> <b>SABIX® A 101 HT</b>	Internal wiring at high ambient temperatures in protected rooms

### ■ Application of halogen-free control and connection cables

These cables are particularly suitable for control panels at tool working machines, assembly lines, transporting systems, production lines, rail technologies etc. Once installed these cables can be moved easily for the installation and adjustment as well as inspection of machines. Note: Cables can not be mechanically overloaded during the movement. If a certain protection against electromagnetic interferences is requested cables with overall copper screen should be used. The excellent characteristics of SABIX® cables, in various versions are oil resistance, low temperature flexibility, heat resistance, hot-air resistance, weather resistance, and are also halogen-free.

#### Exemplary applications:

<b>SABIX® A 200 S</b> <b>SABIX® A 200 FRNC</b> <b>SABIX® A 205 S</b> <b>SABIX® A 205 FRNC</b> <b>SABIX® A 224 FRNC C1</b> <b>SABIX® A 226 C FRNC C</b>	Automation systems, car manufacturing industry, machine construction, railway technologies
<b>SABIX® A 238 S</b> <b>SABIX® A 238 FRNC</b>	Transporting systems, construction of industrial plants, automation technologies
<b>SABIX® A 260 PUR</b>	Automation technologies, steel and iron industries, car manufacturing industry, machine construction, refrigeration and climate technologies, car wash, rising platforms for trucks
<b>SABIX® A 130 HT</b>	Plastics processing, packaging machine construction, smelters, steelworks and hot rolling mills, safety engineering, processing of cement, glass and ceramics, sauna construction, heat, refrigeration and climate technologies
<b>SABIX® A 810 S</b> <b>SABIX® A 810 FRNC</b> <b>SABIX® A 813 S</b> <b>SABIX® A 812 C FRNC</b>	Automation technologies, car manufacturing industry, machine construction, power supply cable between frequency converter and servo motor
<b>SABIX® CC 625 FRNC M</b>	Automation technologies, car manufacturing industry, machine construction, railway technologies
<b>SABIX® CC 625 S FRNC M</b> <b>SABIX® CC 625 SH FRNC M</b>	Transporting systems, construction of industrial plants, automation technologies
<b>SABIX® R 600 FRNC</b> <b>SABIX® R 638 FRNC</b>	SABIX® Rail Control, control cable for the internal wiring of rail vehicles acc. to EN 45545-2
<b>SABIX® R flex</b>	continuously flexible SABIX® Rail cable for flexible and protected installation in the interior for door control or in protecting tubes, for outdoor laying at the bogie, railway machines, as connection cable between the waggons acc. to EN 45545-2
<b>SABIX® A 280 FRNC X</b> <b>SABIX® A 285 FRNC X</b>	Control cable for the internal wiring of rail vehicles acc. to EN 45545-2
<b>SABIX® A 280 FRNC X (FR)</b>	Fire resistant control cable for the internal wiring of rail vehicles acc. to EN 45545-2, EN 50200 and IEC 60331-21

## Applications

### ■ Application of halogen-free SABIX® data cables

Data cables are used for the transmission of signals, measuring values and control signals in electronic control appliances, data processing systems, railway technologies, weighing installations, office appliances or wherever smallest cross sections, bending radii, shielding or high flexibility is demanded. The excellent characteristics of these cables, in various versions are oil resistance, low temperature flexibility, heat resistance, weather resistance, flexibility, being halogen-free.

#### Exemplary applications:

<b>SABIX® D 305 S</b> <b>SABIX® D 305 FRNC</b>	Communication technologies
<b>SABIX® D 315 S</b> <b>SABIX® D 315 FRNC</b> <b>SABIX® D 320 FRNC C1</b>	Electronic data processing systems, weighing installations, office appliances
<b>SABIX® D 345 S TP</b> <b>SABIX® D 345 FRNC TP</b>	Electronic data processing systems, weighing installations, office appliances, for increased requirements on transmission characteristics and near-end cross talk attenuation
<b>SABIX® A 871 TWÖ</b> <b>SABIX® A 872 C TWÖ</b> <b>SABIX® A 876 C TWÖ TP</b>	Cables for internal wiring of rail vehicles acc. to EN 50306, data transmission, information systems
<b>SABIX® R 605 FRNC</b> <b>SABIX® R 615 FRNC</b> <b>SABIX® R 645 FRNC TP</b>	SABIX® Rail Data, data cable for the internal wiring of rail vehicles acc. to EN 45545-2

### ■ Application of halogen-free SABIX® BlueLine - Cables for Shipbuilding

Our halogen-free SABIX® BlueLine cables are appropriate for flexible use below deck as well as on deck of ships with protected laying without being in permanent contact with oils and fuels. The flexible construction and small diameter enables a comfortable laying even in narrow spaces.

<b>SABIX® BL 405 FRNC</b> <b>SABIX® BL 415 C FRNC</b> <b>SABIX® BL 443 C FRNC TT</b> <b>SABIX® BL 445 C FRNC TP</b> <b>SABIX® BL 446 C FRNC FTP</b>	BlueLine Data - data cable
<b>SABIX® BL 400 FRNC</b> <b>SABIX® BL 438 C FRNC</b>	BlueLine Control - control cable
<b>SABIX® BL 402 FRNC</b> <b>SABIX® BL 408 FRNC</b> <b>SABIX® BL 409 C FRNC</b> <b>SABIX® BL 410 FRNC</b> <b>SABIX® BL 412 C FRNC</b>	BlueLine Power - power cable

### ■ Application of halogen-free - continuously flexible with highest fire protection

Fire protection, halogen-free, flexibility and oil resistance are the characteristics united by our new product range SABIX® Ultra. Due to the new sheath material the cable can be used for flexible applications and shows the highest fire protection features by the standards EN 60332-1-2, EN 60332-3 Cat C or D, IEC 60754-1, IEC 60754-2, EN 61034, NF C 32-070 C1, NF X 70-100.

<b>SABIX® SD 705 FRNC C1</b> <b>SABIX® SD 715 C FRNC C1</b> <b>SABIX® SD 745 C FRNC C1 TP</b>	as festoon cable for polar cranes in nuclear power plants, in rail technology as sensor cable at the vehicle chassis, cable chain applications with moderate mechanical stress
<b>SABIX® S 710 FRNC C1</b> <b>SABIX® S 712 C FRNC C1</b>	as festoon cable for polar cranes in nuclear power plants, in rail technology as sensor cable at the vehicle chassis or as flexible control cable at the train doors, cable chain applications with moderate mechanical stress

■ You will find further information about the safe application of cables on pages N/31-40

# HALOGEN-FREE CABLES

## Selection table

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		Cable type	SABIX® A 146 S	SABIX® A 146 FRNC	SABIX® A 156 S	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 S	SABIX® A 200 FRNC	SABIX® A 205 S	SABIX® A 205 FRNC	SABIX® A 224 FRNC C1	SABIX® A 226 C FRNC C1	SABIX® A 238 S	SABIX® A 238 FRNC	SABIX® A 260 PUR	SABIX® A 130 HT	
Basic construction	Single conductors		●	●	●	●	●	●	●	●												
	Screened													●	●		●	●	●			
	Coloured cores														●	●						
	Numbered cores											●	●				●	●	●	●	●	
	Twisted pairs																					
Temperature range fixed laying*	Inner sheath																					
	+ 220 °C																					
	+ 180 °C																					
	+ 105 °C																					
	+ 90 °C																					
	+ 85 °C																					
	+ 70 °C																					
	- 30 °C																					
- 40 °C																						
- 50 °C																						
Voltage	Nominal voltage U <sub>0</sub> 300 V																					
	Nominal voltage U <sub>0</sub> /U 300/500 V Testing voltage 2000 V		●	●					●		●											●
	Nominal voltage U <sub>0</sub> /U 450/750 V Testing voltage 2500 V				●	●				●								●				
	Nominal voltage U <sub>0</sub> /U 450/750 V Testing voltage 3000 V																●					
	Nominal voltage U <sub>0</sub> /U 0,6/1 kV Testing voltage 3000 V							●														
	Control and connection cable Nominal voltage U <sub>0</sub> /U 300/500 V Testing voltage 3000 V												●	●	●	●				●	●	●
	Nominal voltage 600 V (UL)								●													
	Nominal voltage 1000 V (UL)									●												
	Motor connection cable Nominal voltage U <sub>0</sub> /U 0,6/1 kV Testing voltage 4000 V																					
	Data cable peak operating voltage max. 350 V/Testing voltage 800 V or peak operating voltage max. 500 V/Testing voltage 1200 V																					
Standards	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	No flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D		●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●		
	acc. to NF C32-070 C1																●	●				
	Fire protection class 1 - 4 acc. to DIN 5510 part 1																					
	Smoke density acc. to IEC 61034 + EN 61034		●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	
UL acc. to AWM Style								●	●													
Special features	Thin-wall/small outer diameter																					
	Very good oil resistance acc. to DIN VDE																				●	
	Oil resistant acc. to EN 50306																					
Ozone resistant acc. to VDE 0282 part 2																						
Valid for all herein mentioned cables: halogen-free acc. to DIN VDE 0472 part 815 + IEC 60754-1 · Corrosiveness of conflagration gases acc. to IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases																						



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

# HALOGEN-FREE CABLES

## Selection table

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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 S	SABIX® A 810 FRNC	SABIX® A 813 S	SABIX® A 812 C FRNC	SABIX® D 305 S	SABIX® D 305 FRNC	SABIX® D 315 S	SABIX® D 315 FRNC	SABIX® D 320 FRNC C1	SABIX® D 345 S TP	SABIX® D 345 FRNC TP	SABIX® A 170 TWÖ	SABIX® A 871 TWÖ	SABIX® A 872 C TWÖ	SABIX® A 876 C TWÖ TP
Basic construction	Single conductors																●			
	Screened			●	●			●	●			●	●	●	●	●			●	●
	Coloured cores																			
	Numbered cores	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
	Twisted pairs															●	●			●
Inner sheath				●				●												
Temperature range fixed laying*	+ 220 °C																			
	+ 180 °C																			
	+ 105 °C																			
	+ 90 °C																			
	+ 85 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	+ 70 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	- 30 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
- 40 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
- 50 °C		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Voltage	Nominal voltage U <sub>0</sub> 300 V																●			
	Nominal voltage U <sub>0</sub> /U 300/500 V Testing voltage 2000 V																	●	●	●
	Nominal voltage U <sub>0</sub> /U 450/750 V Testing voltage 2500 V																			
	Nominal voltage U <sub>0</sub> /U 450/750 V Testing voltage 3000 V																			
	Nominal voltage U <sub>0</sub> /U 0,6/1 kV Testing voltage 3000 V																			
	Control and connection cable Nominal voltage U <sub>0</sub> /U 300/500 V Testing voltage 3000 V	●	●	●																
	Nominal voltage 600 V (UL)	●	●	●																
	Nominal voltage 1000 V (UL)																			
	Motor connection cable Nominal voltage U <sub>0</sub> /U 0,6/1 kV Testing voltage 4000 V				●	●	●	●												
	Data cable peak operating voltage max. 350 V/Testing voltage 800 V or peak operating voltage max. 500 V/Testing voltage 1200 V									●	●	●	●	●	●	●	●			
Standards	Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
	No flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
	acc. to NF C32-070 C1													●						
	Fire protection class 1 - 4 acc. to DIN 5510 part 1																	●	●	●
	Smoke density acc. to IEC 61034 + EN 61034	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
UL acc. to AWM Style	●	●	●																	
Special features	Thin-wall/small outer diameter																●	●	●	●
	Very good oil resistance acc. to DIN VDE																			
	Oil resistant acc. to EN 50306																●	●	●	●
	Ozone resistant acc. to VDE 0282 part 2																	●	●	●
Valid for all herein mentioned cables: halogen-free acc. to DIN VDE 0472 part 815 + IEC 60754-1 · Corrosiveness of conflagration gases acc. to IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases																				



from  
to

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



## Selection table Cables for Railway Technology acc. to EN 45545-2

		Cable type	Cable types											
			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	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	tested acc. to EN 45545-2		●	●	●	●	●	●	●	●	●	●	●	●
	Halogen-free 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.		●	●	●	●	●	●	●	●	●	●	●	●
	Fire performance													
	No flame propagation acc. to DIN EN 60332-3-24				●	●	●	●	●	●	●	●	●	●
	No flame propagation acc. to DIN EN 60332-3-25		●	●	●	●	●	●	●	●	●	●	●	●
	No flame propagation acc. to DIN EN 50305 section 9.1.2		●	●	●	●	●	●	●	●	●	●	●	●
	Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2		●	●	●	●	●	●	●	●	●	●	●	●
	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 + IEC 60331-21 FE 180													●
	Toxicity acc. to DIN EN 50305		●	●	●	●	●	●	●	●	●	●	●	●
	Smoke density acc. to DIN EN 61034		●	●	●	●	●	●	●	●	●	●	●	●
	Smoke density acc. to ASTM E 662-09								●	●				
Oil and fuel resistance acc. to EN 50264-1									●					
Temperature range fixed laying*	+ 125 °C													
	+ 90 °C		●	●	●	●	●	●	●	●	●	●	●	●
	+ 70 °C		●	●	●	●	●	●	●	●	●	●	●	●
	- 40 °C		●	●	●	●	●	●	●	●	●	●	●	●
	- 50 °C		●	●	●	●	●	●	●	●	●	●	●	●
Voltage	Nominal voltage U <sub>0</sub> /U 300/500 V		●		●	●				●	●	●	●	
	Nominal voltage U <sub>0</sub> /U 450/750 V			●										
	Peak operating voltage: < 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V						●	●	●					

from short time use  
 to

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

## Selection table SABIX® BlueLine - 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 <sub>0</sub> /U 300/500 V							●	●					
	nominal voltage U <sub>0</sub> /U 0,6/1 kV									●	●	●	●	●
Standards	halogen-free acc. to IEC 60754-1 + EN 60684-2		●	●	●	●	●	●	●	●	●	●	●	●
	fire performance: no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22		●	●	●	●	●	●	●	●	●	●	●	●
	fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2		●	●	●	●	●	●	●	●	●	●	●	●
	corrosiveness of conflagration gases: in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases		●	●	●	●	●	●	●	●	●	●	●	●
	smoke density acc. to IEC 61034 + EN 61034		●	●	●	●	●	●	●	●	●	●	●	●
Type approvals	DNV-GL		●	●	●	●	●	●	●	●	●	●	●	●
	Lloyd's Register		●	●		●		●	●				●	●
	American Bureau of Shipping		●	●		●		●	●				●	●
	Registro Italiano Navale		●	●		●		●	●				●	●
	Russian Maritime Register of Shipping		●	●		●		●	●				●	●
Characteristics	flexible conductor stranding		●	●	●	●	●	●	●				●	●
	extended cross section range		●	●		●								



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

## Selection table continuously flexible with highest fire protection

 Fire protection has never been so flexible		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 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V	●	●	●		
	nominal voltage 0,6/1 kV				●	●
Standards	halogen-free acc. to DIN VDE 0472 part 815 + IEC 60754-1	●	●	●	●	●
	no flame propagation acc. to IEC 60332 + EN 60332 Cat C or D	●	●	●	●	●
	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1	●	●	●	●	●
	corrosiveness of conflagration gases acc. to IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2	●	●	●	●	●
	smoke density acc. to IEC 61034 + EN 61034	●	●	●	●	●
	toxicity acc. to NF X 70-100	●	●	●	●	●
oil and fuel resistance acc. to acc. to EN 50264-1	●	●	●	●	●	



from

to

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



**SABIX® A 146 S** Wiring cable 300/500 V

**SABIX® A 146 FRNC** Wiring cable with extended temperature range 300/500V



BRÖCKSKES · D-VIERSEN · SABIX A 146 S 300/500 V 0,5 mm<sup>2</sup> CE

Marking for SABIX A 146 S 81460150:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 146 S 300/500 V 0,5 mm<sup>2</sup> CE

A  
12

## Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation</b>	SABIX®
<b>Colour code:</b>	coloured

## Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 very good stripping
- 】 flexible
- 】 EAC approval

## Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V	
<b>Testing voltage:</b>	2000 V	
<b>Min. bending radius:</b>	7,5 x d	
<b>For one single bend:</b>	5 x d	
<b>Temperature range</b>	<b>SABIX® A 146 S:</b>	<b>SABIX® A 146 FRNC:</b>
<i>fixed laying:</i>	-30/+70 °C	-40/+90 °C
<i>flexible application:</i>	-20/+70 °C	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2	
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034	
<b>Flexibility:</b>	good	
<b>Weather resistance:</b>	<b>SABIX® A 146 FRNC:</b> good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17	

## SABIX® A 146 S

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
8146 .. 50*	0,50	0,21	2,1	4,8	10
8146 .. 75*	0,75	0,21	2,4	7,2	13
8146 .. 80*	1,00	0,21	2,5	9,6	15

Other dimensions and colours are possible on request.

## SABIX® A 146 FRNC

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6146 .. 50*	0,50	0,21	2,1	4,8	9
6146 .. 75*	0,75	0,21	2,4	7,2	12
6146 .. 80*	1,00	0,21	2,5	9,6	14

Other dimensions and colours are possible on request.

### \* Colour code for single conductors:

01 = black	06 = green
02 = blue	07 = violet
03 = brown	08 = white
04 = grey	16 = gentian blue
05 = yellow	27 = green-yellow



**On request with tinned copper strands**



**SABIX® A 156 S** Wiring cable 450/750 V

**SABIX® A 156 FRNC** Wiring cable with extended temperature range 450/750 V



Marking for SABIX A 156 S 81560182:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 156 S 450/750 V 1,5 mm² CE

**Construction:**

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured

**Technical data:**

<b>Nominal voltage:</b>	U <sub>0</sub> /U 450/750 V	
<b>Testing voltage:</b>	2500 V	
<b>Min. bending radius:</b>	7,5 x d	
<b>For one single bend:</b>	5 x d	
<b>Temperature range</b>	<b>SABIX® A 156 S:</b>	<b>SABIX® A 156 FRNC:</b>
<i>fixed laying:</i>	-30/+70 °C	-40/+90 °C
<i>flexible application:</i>	-20/+70 °C	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2	
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034	
<b>Flexibility:</b>	good	
<b>Weather resistance:</b>	<b>SABIX® A 156 FRNC:</b> good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17	

- Outstanding features:**
- 】 halogen-free
  - 】 no flame propagation
  - 】 flame retardant and self-extinguishing
  - 】 very good stripping
  - 】 flexible
  - 】 EAC approval

**SABIX® A 156 S**

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
8156 .. 80*	1,00	0,21	2,7	9,6	16
8156 .. 82*	1,50	0,26	3,0	14,4	21
8156 .. 84*	2,50	0,26	3,6	24,0	32
8156 .. 86*	4,00	0,31	4,2	38,4	48
8156 .. 87*	6,00	0,31	4,7	57,6	67
8156 .. 88*	10,00	0,41	7,0	96,0	125
8156 .. 89*	16,00	0,41	8,0	153,6	181
8156 .. 90*	25,00	0,41	9,9	240,0	291
8156 .. 91*	35,00	0,41	11,1	336,0	393
8156 .. 92*	50,00	0,41	12,6	480,0	563
8156 .. 93*	70,00	0,41	14,8	672,0	750
8156 .. 94*	95,00	0,51	18,2	912,0	1033
8156 .. 95*	120,00	0,51	19,7	1152,0	1240
8156 .. 96*	150,00	0,51	21,8	1440,0	1542
8156 .. 97*	185,00	0,51	23,2	1776,0	1864
8156 .. 98*	240,00	0,51	26,9	2304,0	2505
8156 .. 99*	300,00	0,51	30,0	2880,0	3123

Other dimensions and colours are possible on request.

**SABIX® A 156 FRNC**

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6156 .. 82*	1,50	0,26	3,0	14,4	20
6156 .. 84*	2,50	0,26	3,6	24,0	32
6156 .. 86*	4,00	0,31	4,2	38,4	48
6156 .. 87*	6,00	0,31	4,7	57,6	67
6156 .. 88*	10,00	0,41	6,3	96,0	117
6156 .. 89*	16,00	0,41	8,0	153,6	181
6156 .. 90*	25,00	0,41	9,9	240,0	292
6156 .. 91*	35,00	0,41	11,1	336,0	394
6156 .. 92*	50,00	0,41	12,6	480,0	563
6156 .. 93*	70,00	0,41	14,8	672,0	751
6156 .. 94*	95,00	0,51	18,2	912,0	1034
6156 .. 95*	120,00	0,51	19,7	1152,0	1241
6156 .. 96*	150,00	0,51	21,8	1440,0	1544
6156 .. 97*	185,00	0,51	23,2	1776,0	1866
6156 .. 98*	240,00	0,51	26,9	2304,0	2507
6156 .. 99*	300,00	0,51	30,0	2880,0	3125

Other dimensions and colours are possible on request.

**\* Colour code for single conductors:**

- |             |                   |
|-------------|-------------------|
| 01 = black  | 06 = green        |
| 02 = blue   | 07 = violet       |
| 03 = brown  | 08 = white        |
| 04 = grey   | 16 = gentian blue |
| 05 = yellow | 27 = green-yellow |



**On request with tinned copper strands**



## SABIX® A 166 FRNC Wiring cable with extended temperature range 0,6/1 kV



BRÖCKSKES · D-VIERSEN · SABIX A 166 FRNC 0,6/1 kV 1,5 mm<sup>2</sup> CE

Marking for SABIX A 166 FRNC 61660182:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 166 FRNC 0,6/1 kV 1,5 mm<sup>2</sup> CE

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14

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 very good stripping
- 】 flexible
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	3000 V
<b>Min. bending radius:</b>	7,5 x d
<b>For one single bend:</b>	5 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6166 .. 82*	1,50	0,26	3,2	14,4	23
6166 .. 84*	2,50	0,26	3,9	24,0	35
6166 .. 86*	4,00	0,31	4,5	38,4	51
6166 .. 87*	6,00	0,31	5,0	57,6	71
6166 .. 88*	10,00	0,41	7,3	96,0	131
6166 .. 89*	16,00	0,41	8,3	153,6	199
6166 .. 90*	25,00	0,41	10,2	240,0	305
6166 .. 91*	35,00	0,41	11,4	336,0	404

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6166 .. 92*	50,00	0,41	14,1	480,0	576
6166 .. 93*	70,00	0,41	15,1	672,0	765
6166 .. 94*	95,00	0,51	18,5	912,0	1052
6166 .. 95*	120,00	0,51	20,0	1152,0	1261
6166 .. 96*	150,00	0,51	22,1	1440,0	1567
6166 .. 97*	185,00	0,51	23,5	1776,0	1892
6166 .. 98*	240,00	0,51	27,2	2304,0	2538

Other dimensions and colours are possible on request.

#### \* Colour code for single conductors:

01 = black	06 = green
02 = blue	07 = violet
03 = brown	08 = white
04 = grey	16 = gentian blue
05 = yellow	27 = green-yellow



**On request with tinned copper strands**



**SABIX® A 147 FRNC** Wiring cable 600 V

**SABIX® A 157 FRNC** Wiring cable 1000V



SAB BRÖCKSKES · D-VIERSEN · SABIX A 147 FRNC 300/500V 0,5 mm<sup>2</sup> 20 AWG AWM Style 10528 75°C 600V

Marking for SABIX A 147 FRNC 61470150:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 147 FRNC 300/500V 0,5 mm<sup>2</sup> 20 AWG AWM Style 10528 75°C 600V E172204

Construction:	
Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Colour code:	coloured

Outstanding features:	
]	halogen-free
]	no flame propagation
]	flame retardant and self-extinguishing
]	UL recognized
]	EAC approval

Technical data:	
Voltage UL:	<b>SABIX® A 147 FRNC:</b> 20 - 18 AWG: 600 V <b>SABIX® A 157 FRNC:</b> 16 AWG - 550 MCM: 1000 V
Nominal voltage U <sub>0</sub> /U:	<b>SABIX® A 147 FRNC:</b> 0,50 - 1,0 mm <sup>2</sup> : 300/500 V <b>SABIX® A 157 FRNC:</b> 1,50 - 300,0 mm <sup>2</sup> : 450/750 V
Testing voltage:	<b>SABIX® A 147 FRNC:</b> 2000 V <b>SABIX® A 157 FRNC:</b> 2500 V
Min. bending radius: For one single bend:	7,5 x d 5 x d
Temperature range fixed laying: flexible application:	<b>DIN/VDE:</b> -40/+90 °C -30/+90 °C <b>UL:</b> up to +75 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Flexibility:	good
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

## SABIX® A 147 FRNC

item no.	nominal cross-section mm <sup>2</sup>	AWG/MCM	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6147 .. 50*	0,50	20 (15/32)	0,21	2,1	4,8	9
6147 .. 75*	0,75	19 (23/32)	0,21	2,4	7,2	12
6147 .. 80*	1,00	18 (30/32)	0,21	2,5	9,6	15

Other dimensions and colours are possible on request.

## SABIX® A 157 FRNC

item no.	nominal cross-section mm <sup>2</sup>	AWG/MCM	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
6157 .. 82*	1,50	16 (27/30)	0,26	3,0	14,4	20
6157 .. 84*	2,50	14 (46/30)	0,26	3,6	24,0	32
6157 .. 86*	4,00	12 (52/28)	0,31	4,2	38,4	48
6157 .. 87*	6,00	10 (70/20)	0,31	4,7	57,6	67
6157 .. 88*	10,00	8 (77/26)	0,41	6,3	96,0	117
6157 .. 89*	16,00	6 (119/26)	0,41	8,0	153,6	181
6157 .. 90*	25,00	4 (196/26)	0,41	9,9	240,0	292
6157 .. 91*	35,00	2 (280/26)	0,41	11,1	336,0	394
6157 .. 92*	50,00	1 (400/26)	0,41	13,8	480,0	563
6157 .. 93*	70,00	2/0 (554/26)	0,41	14,8	672,0	751
6157 .. 94*	95,00	3/0 (484/24)	0,51	18,2	912,0	1034
6157 .. 95*	120,00	4/0 (589/24)	0,51	19,7	1152,0	1241
6157 .. 96*	150,00	250 MCM (740/24)	0,51	21,8	1440,0	1544
6157 .. 97*	185,00	350 MCM (899/24)	0,51	23,2	1776,0	1866
6157 .. 98*	240,00	450 MCM (1220/24)	0,51	26,9	2304,0	2507
6157 .. 99*	300,00		0,51	30,0	2880,0	3125

Other dimensions and colours are possible on request.

### \* Colour code for single conductors:

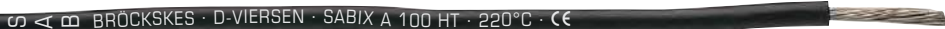
01 = black	06 = green
02 = blue	07 = violet
03 = brown	08 = white
04 = grey	16 = gentian blue
05 = yellow	27 = green-yellow



On request as multi-core cable possible



**SABIX® A 100 HT** Single conductor with nickel-plated strands  
**SABIX® A 101 HT** Single conductor with silver-plated strands



Marking for SABIX A 100 HT 71000150:  
 SAB BRÖCKSKES · D-VIERSEN · SABIX A 100 HT · 220°C · CE

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## Construction:

<b>Conductor:</b>	<b>SABIX® A 100 HT:</b> nickel-plated copper strands <b>SABIX® A 101 HT:</b> silver-plated copper strands  fine wires acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured

## Outstanding features:

- 】 halogen-free
- 】 high temperature resistant
- 】 flexible
- 】 EAC approval
- 】 SABIX® A 101 HT: good solderability

## Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius: For one single bend:</b>	7.5 x d 5 x d
<b>Temperature range fixed laying: flexible application:</b>	-40/+220 °C -25/+220 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

## SABIX® A 100 HT

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
7100 .. 25*	0,25	0,16	2,3	2,4	7
7100 .. 34*	0,34	0,16	2,4	3,3	8
7100 .. 50*	0,50	0,21	2,5	4,8	10
7100 .. 75*	0,75	0,21	2,8	7,2	13
7100 .. 80*	1,00	0,21	2,9	9,6	15
7100 .. 82*	1,50	0,26	3,4	14,4	21
7100 .. 84*	2,50	0,26	4,0	24,0	32
7100 .. 86*	4,00	0,31	4,6	38,4	48
7100 .. 87*	6,00	0,31	5,1	57,6	67
7100 .. 88*	10,00	0,41	7,4	96,0	121
7100 .. 89*	16,00	0,41	8,4	153,6	176
7100 .. 90*	25,00	0,41	10,3	240,0	283
7100 .. 91*	35,00	0,41	11,5	336,0	385
7100 .. 92*	50,00	0,41	14,2	480,0	549
7100 .. 93*	70,00	0,41	15,2	672,0	736
7100 .. 94*	95,00	0,51	18,6	912,0	1009
7100 .. 95*	120,00	0,51	20,1	1152,0	1214
7100 .. 96*	150,00	0,51	22,2	1440,0	1511
7100 .. 97*	185,00	0,51	23,6	1776,0	1827
7100 .. 98*	240,00	0,51	27,3	2304,0	2457
7100 .. 99*	300,00	0,51	30,4	2880,0	3062

Other dimensions and colours are possible on request.

## SABIX® A 101 HT

item no.	nominal cross-section mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
7101 .. 25*	0,25	0,16	2,3	2,4	7
7101 .. 34*	0,34	0,16	2,4	3,3	8
7101 .. 50*	0,50	0,21	2,5	4,8	10
7101 .. 75*	0,75	0,21	2,8	7,2	13
7101 .. 80*	1,00	0,21	2,9	9,6	15
7101 .. 82*	1,50	0,26	3,4	14,4	21
7101 .. 84*	2,50	0,26	4,0	24,0	32
7101 .. 86*	4,00	0,31	4,6	38,4	48
7101 .. 87*	6,00	0,31	5,1	57,6	67
7101 .. 88*	10,00	0,41	7,4	96,0	121
7101 .. 89*	16,00	0,41	8,4	153,6	176
7101 .. 90*	25,00	0,41	10,3	240,0	283
7101 .. 91*	35,00	0,41	11,5	336,0	385
7101 .. 92*	50,00	0,41	14,2	480,0	549
7101 .. 93*	70,00	0,41	15,2	672,0	736
7101 .. 94*	95,00	0,51	18,6	912,0	1009
7101 .. 95*	120,00	0,51	20,1	1152,0	1214
7101 .. 96*	150,00	0,51	22,2	1440,0	1511
7101 .. 97*	185,00	0,51	23,6	1776,0	1827
7101 .. 98*	240,00	0,51	27,3	2304,0	2457
7101 .. 99*	300,00	0,51	30,4	2880,0	3062

Other dimensions and colours are possible on request.

**\* Colour code for single conductors:**

- |             |                   |
|-------------|-------------------|
| 01 = black  | 06 = green        |
| 02 = blue   | 07 = violet       |
| 03 = brown  | 08 = white        |
| 04 = grey   | 16 = gentian blue |
| 05 = yellow | 27 = green-yellow |





## SABIX® A 200 S Control cable with numbered cores



Marking for SABIX A 200 S 82001215:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 200 S 12 x 1,5 mm² CE

A  
17

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 flexible
- 】 very good stripping
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82000205	2 x 0,50	0,21	4,8	9,6	34
82000305	3 x 0,50	0,21	5,1	14,4	40
82000405	4 x 0,50	0,21	5,5	19,2	48
82000505	5 x 0,50	0,21	6,2	24,0	61
82000705	7 x 0,50	0,21	6,7	33,6	76
82001005	10 x 0,50	0,21	8,6	48,0	108
82001205	12 x 0,50	0,21	9,1	57,6	127
82001805	18 x 0,50	0,21	10,7	86,4	181
82002505	25 x 0,50	0,21	12,9	120,0	245
82003205	32 x 0,50	0,21	14,0	153,6	305
82004205	42 x 0,50	0,21	15,7	201,6	397
82006105	61 x 0,50	0,21	18,5	292,8	555
82000207	2 x 0,75	0,21	5,4	14,4	44
82000307	3 x 0,75	0,21	5,7	21,6	53
82000407	4 x 0,75	0,21	6,4	28,8	67
82000507	5 x 0,75	0,21	7,0	36,0	80
82000707	7 x 0,75	0,21	7,8	50,4	105
82001007	10 x 0,75	0,21	10,0	72,0	149
82001207	12 x 0,75	0,21	10,5	86,4	175
82001807	18 x 0,75	0,21	12,4	129,6	250
82002507	25 x 0,75	0,21	15,1	180,0	344
82003207	32 x 0,75	0,21	16,4	230,4	429
82004207	42 x 0,75	0,21	18,4	302,4	555
82006107	61 x 0,75	0,21	21,6	439,2	775
82000210	2 x 1,00	0,21	5,6	19,2	50
82000310	3 x 1,00	0,21	6,1	28,8	64
82000410	4 x 1,00	0,21	6,6	38,4	78
82000510	5 x 1,00	0,21	7,5	48,0	97
82000710	7 x 1,00	0,21	8,1	67,2	123
82001010	10 x 1,00	0,21	10,6	96,0	179
82001210	12 x 1,00	0,21	10,9	115,2	204
82001810	18 x 1,00	0,21	12,9	172,8	296
82002510	25 x 1,00	0,21	15,7	240,0	405
82003210	32 x 1,00	0,21	17,1	307,2	506
82004210	42 x 1,00	0,21	19,4	403,2	665
82006110	61 x 1,00	0,21	22,7	585,6	930
82000215	2 x 1,50	0,26	6,4	28,8	67
82000315	3 x 1,50	0,26	6,8	43,2	83

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82000415	4 x 1,50	0,26	7,6	57,6	105
82000515	5 x 1,50	0,26	8,3	72,0	126
82000715	7 x 1,50	0,26	9,2	100,8	166
82001015	10 x 1,50	0,26	12,0	144,0	239
82001215	12 x 1,50	0,26	12,4	172,8	275
82001815	18 x 1,50	0,26	14,8	259,2	408
82002515	25 x 1,50	0,26	18,0	360,0	559
82003215	32 x 1,50	0,26	19,5	460,8	697
82004215	42 x 1,50	0,26	22,0	604,8	910
82006115	61 x 1,50	0,26	25,8	878,4	1284
82000225	2 x 2,50	0,26	7,8	48,0	103
82000325	3 x 2,50	0,26	8,3	72,0	129
82000425	4 x 2,50	0,26	9,2	96,0	162
82000525	5 x 2,50	0,26	10,1	120,0	198
82000725	7 x 2,50	0,26	11,2	168,0	258
82001025	10 x 2,50	0,26	14,8	240,0	377
82001225	12 x 2,50	0,26	15,3	288,0	434
82001825	18 x 2,50	0,26	18,2	432,0	636
82002525	25 x 2,50	0,26	22,3	600,0	877
82000340	3 x 4,00	0,31	9,7	115,2	189
82000440	4 x 4,00	0,31	10,8	153,6	239
82000540	5 x 4,00	0,31	12,1	192,0	297
82000740	7 x 4,00	0,31	13,4	268,8	390
82000360	3 x 6,00	0,31	11,4	172,8	272
82000460	4 x 6,00	0,31	12,7	230,4	345
82000560	5 x 6,00	0,31	14,2	288,0	428
82000760	7 x 6,00	0,31	15,7	403,2	562
82000461	4 x 10,0	0,41	16,7	384,0	592
82000561	5 x 10,0	0,41	18,6	480,0	727
82000761	7 x 10,0	0,41	20,7	672,0	969
82000462	4 x 16,0	0,41	20,6	614,4	908
82000562	5 x 16,0	0,41	23,0	768,0	1114
82000762	7 x 16,0	0,41	25,5	1075,2	1483
82000463	4 x 25,0	0,41	24,9	960,0	1420
82000563	5 x 25,0	0,41	28,1	1200,0	1797
82000464	4 x 35,0	0,41	28,8	1344,0	1964
82000564	5 x 35,0	0,41	32,5	1680,0	2481

Other dimensions and colours are possible on request.



## SABIX® A 200 FRNC Control cable with numbered cores and improved fire performance

BRÖCKSKES · D-VIERSEN · SABIX A 200 FRNC 12 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 200 FRNC 62001215:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 200 FRNC 12 x 1,5 mm<sup>2</sup> CE

A  
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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 very flexible
- 】 very good stripping
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+85 °C
<i>flexible application:</i>	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62000205	2 x 0,50	0,21	5,0	9,6	37
62000305	3 x 0,50	0,21	5,3	14,4	43
62000405	4 x 0,50	0,21	5,7	19,2	51
62000505	5 x 0,50	0,21	6,4	24,0	63
62000705	7 x 0,50	0,21	6,9	33,6	77
62001005	10 x 0,50	0,21	8,8	48,0	108
62001205	12 x 0,50	0,21	9,3	57,6	127
62001805	18 x 0,50	0,21	10,9	86,4	180
62002505	25 x 0,50	0,21	13,1	120,0	240
62003205	32 x 0,50	0,21	14,2	153,6	298
62004205	42 x 0,50	0,21	15,9	201,6	380
62006105	61 x 0,50	0,21	18,7	292,8	530
62000207	2 x 0,75	0,21	5,6	14,4	48
62000307	3 x 0,75	0,21	5,9	21,6	56
62000407	4 x 0,75	0,21	6,6	28,8	70
62000507	5 x 0,75	0,21	7,2	36,0	83
62000707	7 x 0,75	0,21	8,0	50,4	106
62001007	10 x 0,75	0,21	10,2	72,0	150
62001207	12 x 0,75	0,21	10,7	86,4	174
62001807	18 x 0,75	0,21	12,6	129,6	248
62002507	25 x 0,75	0,21	15,3	180,0	339
62003207	32 x 0,75	0,21	16,6	230,4	419
62004207	42 x 0,75	0,21	18,6	302,4	535
62006107	61 x 0,75	0,21	21,8	439,2	750
62000210	2 x 1,00	0,21	5,8	19,2	54
62000310	3 x 1,00	0,21	6,3	28,8	67
62000410	4 x 1,00	0,21	6,8	38,4	80
62000510	5 x 1,00	0,21	7,7	48,0	100
62000710	7 x 1,00	0,21	8,3	67,2	123
62001010	10 x 1,00	0,21	10,8	96,0	179
62001210	12 x 1,00	0,21	11,1	115,2	203
62001810	18 x 1,00	0,21	13,1	172,8	291
62002510	25 x 1,00	0,21	15,9	240,0	397
62003210	32 x 1,00	0,21	17,3	307,2	493
62004210	42 x 1,00	0,21	19,6	403,2	625
62006110	61 x 1,00	0,21	22,9	585,6	885
62000215	2 x 1,50	0,26	6,6	28,8	72
62000315	3 x 1,50	0,26	7,0	43,2	86

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62000415	4 x 1,50	0,26	7,8	57,6	108
62000515	5 x 1,50	0,26	8,5	72,0	129
62000715	7 x 1,50	0,26	9,4	100,8	166
62001015	10 x 1,50	0,26	12,2	144,0	239
62001215	12 x 1,50	0,26	12,6	172,8	272
62001815	18 x 1,50	0,26	15,0	259,2	398
62002515	25 x 1,50	0,26	18,2	360,0	549
62003215	32 x 1,50	0,26	19,7	460,8	682
62004215	42 x 1,50	0,26	22,2	604,8	883
62006115	61 x 1,50	0,26	26,0	878,4	1240
62000225	2 x 2,50	0,26	8,0	48,0	109
62000325	3 x 2,50	0,26	8,5	72,0	131
62000425	4 x 2,50	0,26	9,4	96,0	164
62000525	5 x 2,50	0,26	10,3	120,0	196
62000725	7 x 2,50	0,26	11,4	168,0	255
62001025	10 x 2,50	0,26	15,0	240,0	373
62001225	12 x 2,50	0,26	15,5	288,0	427
62001825	18 x 2,50	0,26	18,4	432,0	619
62002525	25 x 2,50	0,26	22,5	600,0	845
62000340	3 x 4,00	0,31	9,9	115,2	192
62000440	4 x 4,00	0,31	11,0	153,6	240
62000540	5 x 4,00	0,31	12,3	192,0	296
62000740	7 x 4,00	0,31	13,6	268,8	385
62000360	3 x 6,00	0,31	11,6	172,8	273
62000460	4 x 6,00	0,31	12,9	230,4	343
62000560	5 x 6,00	0,31	14,4	288,0	422
62000760	7 x 6,00	0,31	15,4	403,2	551
62000461	4 x 10,0	0,41	16,9	384,0	586
62000561	5 x 10,0	0,41	18,8	480,0	715
62000761	7 x 10,0	0,41	20,9	672,0	949
62000462	4 x 16,0	0,41	20,8	614,4	895
62000562	5 x 16,0	0,41	23,2	768,0	1118
62000762	7 x 16,0	0,41	25,7	1075,2	1450
62000463	4 x 25,0	0,41	24,9	960,0	1388
62000563	5 x 25,0	0,41	28,1	1200,0	1750
62000464	4 x 35,0	0,41	28,8	1344,0	1927
62000564	5 x 35,0	0,41	32,5	1680,0	2413

Other dimensions and colours are possible on request.



## SABIX® A 205 S Control cable with coloured cores



Marking for SABIX A 205 S 82050515:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 205 S 5 x 1,5 mm² CE

**A**  
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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 flexible
- 】 very good stripping
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82050205	2 x 0,50	0,21	4,8	9,6	34
82050305	3 x 0,50	0,21	5,1	14,4	40
82050405	4 x 0,50	0,21	5,5	19,2	48
82050505	5 x 0,50	0,21	6,2	24,0	61
82050705	7 x 0,50	0,21	6,7	33,6	76
82050207	2 x 0,75	0,21	5,4	14,4	44
82050307	3 x 0,75	0,21	5,7	21,6	53
82050407	4 x 0,75	0,21	6,4	28,8	67
82050507	5 x 0,75	0,21	7,0	36,0	80
82050707	7 x 0,75	0,21	7,8	50,4	105
82050210	2 x 1,00	0,21	5,6	19,2	50
82050310	3 x 1,00	0,21	6,1	28,8	64
82050410	4 x 1,00	0,21	6,6	38,4	78
82050510	5 x 1,00	0,21	7,5	48,0	97
82050710	7 x 1,00	0,21	8,1	67,2	123
82050215	2 x 1,50	0,26	6,4	28,8	67
82050315	3 x 1,50	0,26	6,8	43,2	83
82050415	4 x 1,50	0,26	7,6	57,6	105
82050515	5 x 1,50	0,26	8,3	72,0	126

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82050715	7 x 1,50	0,26	9,2	100,8	166
82050225	2 x 2,50	0,26	7,8	48,0	103
82050325	3 x 2,50	0,26	8,3	72,0	129
82050425	4 x 2,50	0,26	9,2	96,0	162
82050525	5 x 2,50	0,26	10,1	120,0	198
82050725	7 x 2,50	0,26	11,2	168,0	258
82050340	3 x 4,00	0,31	9,7	115,2	189
82050440	4 x 4,00	0,31	10,8	153,6	239
82050540	5 x 4,00	0,31	12,1	192,0	297
82050360	3 x 6,00	0,31	11,4	172,8	272
82050460	4 x 6,00	0,31	12,7	230,4	345
82050560	5 x 6,00	0,31	14,2	288,0	428
82050461	4 x 10,0	0,41	16,7	384,0	592
82050561	5 x 10,0	0,41	18,6	480,0	727
82050462	4 x 16,0	0,41	20,6	614,4	908
82050463	4 x 25,0	0,41	24,9	960,0	1420
82050464	4 x 35,0	0,41	28,8	1344,0	1964
82050465	4 x 50,0	0,41	33,9	1920,0	2679

Other dimensions and colours are possible on request.



## SABIX® A 205 FRNC Control cable with coloured cores and improved fire performance

BRÖCKSKES · D-VIERSEN · SABIX A 205 FRNC 5 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 205 FRNC 62050515:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 205 FRNC 5 x 1,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 very flexible
- 】 very good stripping
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+85 °C
<i>flexible application:</i>	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62050205	2 x 0,50	0,21	5,0	9,6	37
62050305	3 x 0,50	0,21	5,3	14,4	43
62050405	4 x 0,50	0,21	5,7	19,2	51
62050505	5 x 0,50	0,21	6,0	24,0	63
62050705	7 x 0,50	0,21	6,9	33,6	77
62050207	2 x 0,75	0,21	5,6	14,4	48
62050307	3 x 0,75	0,21	5,9	21,6	56
62050407	4 x 0,75	0,21	6,6	28,8	70
62050507	5 x 0,75	0,21	7,2	36,0	83
62050707	7 x 0,75	0,21	8,0	50,4	106
62050210	2 x 1,00	0,21	5,8	19,2	54
62050310	3 x 1,00	0,21	6,3	28,8	67
62050410	4 x 1,00	0,21	6,8	38,4	80
62050510	5 x 1,00	0,21	7,7	48,0	100
62050710	7 x 1,00	0,21	8,3	67,2	123
62050215	2 x 1,50	0,26	6,6	28,8	72
62050315	3 x 1,50	0,26	7,0	43,2	86
62050415	4 x 1,50	0,26	7,8	57,6	108
62050515	5 x 1,50	0,26	8,5	72,0	129

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62050715	7 x 1,50	0,26	9,4	100,8	166
62050225	2 x 2,50	0,26	8,0	48,0	109
62050325	3 x 2,50	0,26	8,5	72,0	131
62050425	4 x 2,50	0,26	9,4	96,0	164
62050525	5 x 2,50	0,26	10,5	120,0	196
62050725	7 x 2,50	0,26	11,4	168,0	255
62050340	3 x 4,00	0,31	9,9	115,2	192
62050440	4 x 4,00	0,31	11,0	153,6	240
62050540	5 x 4,00	0,31	12,3	192,0	296
62050360	3 x 6,00	0,31	11,6	172,8	274
62050460	4 x 6,00	0,31	12,4	230,4	343
62050560	5 x 6,00	0,31	14,4	288,0	422
62050361	3 x 10,00	0,41	15,3	288,0	470
62050461	4 x 10,00	0,41	16,9	384,0	587
62050561	5 x 10,00	0,41	18,8	480,0	716
62050462	4 x 16,00	0,41	20,8	614,4	895
62050463	4 x 25,00	0,41	24,9	960,0	1388
62050464	4 x 35,00	0,41	28,8	1334,0	1927
62050465	4 x 50,00	0,41	33,3	1920,0	2631

Other dimensions and colours are possible on request.

## SABIX® A 224 FRNC C1 Control cable with numbered cores, improved fire performance and extended temperature range



Marking for SABIX A 224 FRNC C1 62245005:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 224 FRNC C1 50 x 0,5 mm² CE

Construction:	
<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

Outstanding features:	
]	halogen-free
]	no flame propagation
]	flame retardant and self-extinguishing
]	NF C32-070 C1
]	EAC approval

Technical data:	
<b>Nominal voltage:</b>	U <sub>0</sub> /U 450/750 V
<b>Testing voltage:</b>	3000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+90 °C
<i>flexible application:</i>	-20/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62240205	2 x 0,50	0,21	5,8	9,6	36
62240305	3 x 0,50	0,21	6,3	14,4	49
62240405	4 x 0,50	0,21	6,8	19,2	59
62240505	5 x 0,50	0,21	7,7	24,0	76
62240705	7 x 0,50	0,21	8,3	33,6	94
62240805	8 x 0,50	0,21	9,8	38,4	118
62240905	9 x 0,50	0,21	10,6	43,2	135
62241005	10 x 0,50	0,21	10,8	48,0	140
62241205	12 x 0,50	0,21	11,1	57,6	159
62241405	14 x 0,50	0,21	11,6	67,2	179
62241605	16 x 0,50	0,21	12,5	76,8	207
62241805	18 x 0,50	0,21	13,1	86,4	228
62242105	21 x 0,50	0,21	14,6	100,8	271
62242505	25 x 0,50	0,21	15,9	120,0	315
62243005	30 x 0,50	0,21	16,6	144,0	369
62243405	34 x 0,50	0,21	18,1	163,2	424
62244005	40 x 0,50	0,21	19,6	192,0	497
62244205	42 x 0,50	0,21	19,6	201,6	514
62245005	50 x 0,50	0,21	21,4	240,0	602
62246105	61 x 0,50	0,21	22,9	292,8	718
62240207	2 x 0,75	0,21	6,4	14,4	45
62240307	3 x 0,75	0,21	7,0	21,6	61
62240407	4 x 0,75	0,21	7,8	28,8	79
62240507	5 x 0,75	0,21	8,5	36,0	95
62240707	7 x 0,75	0,21	9,4	50,4	125
62240807	8 x 0,75	0,21	11,0	57,6	154
62240907	9 x 0,75	0,21	12,0	64,8	178
62241007	10 x 0,75	0,21	12,2	72,0	184
62241207	12 x 0,75	0,21	12,6	86,4	209
62241407	14 x 0,75	0,21	13,2	100,8	236

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62241607	16 x 0,75	0,21	14,1	115,2	272
62241807	18 x 0,75	0,21	15,0	129,6	308
62242107	21 x 0,75	0,21	16,6	151,2	363
62242507	25 x 0,75	0,21	18,2	180,0	424
62243007	30 x 0,75	0,21	18,8	216,0	487
62243407	34 x 0,75	0,21	20,4	244,8	557
62244007	40 x 0,75	0,21	22,2	288,0	661
62244207	42 x 0,75	0,21	22,2	302,4	685
62245007	50 x 0,75	0,21	24,4	360,0	803
62246107	61 x 0,75	0,21	26,0	439,2	957
62240210	2 x 1,00	0,21	6,8	19,2	53
62240310	3 x 1,00	0,21	7,2	28,8	69
62240410	4 x 1,00	0,21	8,0	38,4	89
62240510	5 x 1,00	0,21	8,8	48,0	108
62240710	7 x 1,00	0,21	9,7	67,2	142
62240810	8 x 1,00	0,21	11,4	76,8	174
62240910	9 x 1,00	0,21	12,4	86,4	200
62241010	10 x 1,00	0,21	12,6	96,0	209
62241210	12 x 1,00	0,21	13,0	115,2	239
62241410	14 x 1,00	0,21	13,8	134,4	277
62241610	16 x 1,00	0,21	14,6	153,6	311
62241810	18 x 1,00	0,21	15,5	172,8	352
62242110	21 x 1,00	0,21	17,2	201,6	415
62242510	25 x 1,00	0,21	18,8	240,0	485
62243010	30 x 1,00	0,21	19,6	288,0	568
62243410	34 x 1,00	0,21	21,3	326,4	649
62244010	40 x 1,00	0,21	23,0	384,0	759
62244210	42 x 1,00	0,21	23,0	403,2	787
62245010	50 x 1,00	0,21	25,4	480,0	953
62246110	61 x 1,00	0,21	27,1	585,6	1116

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## SABIX® A 224 FRNC C1 Control cable with numbered cores, improved fire performance and extended temperature range



D-VIERSEN · SABIX A 224 FRNC C1 50 x 0,5 mm<sup>2</sup> CE

Marking for SABIX A 224 FRNC C1 62245005:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 224 FRNC C1 50 x 0,5 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62240215	2 x 1,50	0,26	7,4	28,8	65
62240315	3 x 1,50	0,26	8,0	43,2	89
62240415	4 x 1,50	0,26	8,7	57,6	111
62240515	5 x 1,50	0,26	9,8	72,0	140
62240715	7 x 1,50	0,26	10,8	100,8	185
62240815	8 x 1,50	0,26	12,7	115,2	226
62240915	9 x 1,50	0,26	13,7	129,6	258
62241015	10 x 1,50	0,26	14,0	144,0	270
62241215	12 x 1,50	0,26	14,4	172,8	309
62241415	14 x 1,50	0,26	15,3	201,6	358
62241615	16 x 1,50	0,26	16,4	230,4	412
62241815	18 x 1,50	0,26	17,2	259,2	456
62242115	21 x 1,50	0,26	19,3	302,4	547
62242515	25 x 1,50	0,26	21,0	360,0	643
62243015	30 x 1,50	0,26	21,7	432,0	743
62243415	34 x 1,50	0,26	23,8	489,6	859
62244015	40 x 1,50	0,26	25,7	576,0	1004
62244215	42 x 1,50	0,26	25,7	604,8	1041
62245015	50 x 1,50	0,26	28,3	720,0	1239
62246115	61 x 1,50	0,26	30,2	878,4	1480
62240225	2 x 2,50	0,26	8,8	48,0	96
62240325	3 x 2,50	0,26	9,5	72,0	132
62240425	4 x 2,50	0,26	10,6	96,0	170
62240525	5 x 2,50	0,26	11,6	120,0	208
62240725	7 x 2,50	0,26	12,8	168,0	275
62240825	8 x 2,50	0,26	15,2	192,0	340
62240925	9 x 2,50	0,26	16,5	216,0	388
62241025	10 x 2,50	0,26	16,8	240,0	407

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62241225	12 x 2,50	0,26	17,3	288,0	469
62241425	14 x 2,50	0,26	18,4	336,0	543
62241625	16 x 2,50	0,26	19,6	384,0	622
62241825	18 x 2,50	0,26	20,8	432,0	700
62242125	21 x 2,50	0,26	23,0	504,0	824
62242525	25 x 2,50	0,26	25,3	600,0	971
62240340	3 x 4,00	0,31	11,0	115,2	187
62240440	4 x 4,00	0,31	12,2	153,6	243
62240540	5 x 4,00	0,31	13,6	192,0	304
62240740	7 x 4,00	0,31	15,0	268,8	403
62240360	3 x 6,00	0,31	12,7	172,8	263
62240460	4 x 6,00	0,31	14,1	230,4	341
62240560	5 x 6,00	0,31	15,7	288,0	426
62240760	7 x 6,00	0,31	17,3	403,2	568
62240461	4 x 10,0	0,41	18,0	384,0	566
62240561	5 x 10,0	0,41	25,1	480,0	984
62240761	7 x 10,0	0,41	25,1	672,0	1121
62240462	4 x 16,0	0,41	25,2	614,4	1026
62240562	5 x 16,0	0,41	25,3	768,0	1087
62240762	7 x 16,0	0,41	27,1	1075,2	1403
62240463	4 x 25,0	0,41	24,4	960,0	1273
62240563	5 x 25,0	0,41	27,2	1200,0	1598
62240763	7 x 25,0	0,41	30,2	1680,0	2175
62240464	4 x 35,0	0,41	27,8	1344,0	1750
62240564	5 x 35,0	0,41	31,2	1680,0	2153
62240764	7 x 35,0	0,41	34,5	2352,0	2982
62240465	4 x 50,0	0,41	34,6	1920,0	2465

Other dimensions and colours are possible on request.

## SABIX® A 226 C FRNC C1

Control cable with numbered cores, improved fire performance, extended temperature range and overall copper screen



D-VIERSEN · SABIX A 226 C FRNC C1 18 x 1,5 mm<sup>2</sup> CE

Marking for SABIX A 226 C FRNC C1 62261815:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 226 C FRNC C1 18 x 1,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 good EMC characteristics
- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 NF C32-070 C1
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 450/750 V
<b>Testing voltage:</b>	2500 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+90 °C
<i>flexible application:</i>	-20/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

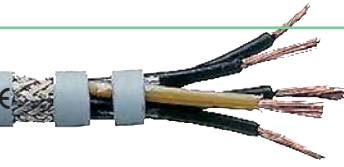
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62260205	2 x 0,50	0,21	6,5	27,2	56
62260307	3 x 0,75	0,21	7,7	42,9	86
62260407	4 x 0,75	0,21	8,3	52,5	102
62260507	5 x 0,75	0,21	9,2	62,2	126
62260707	7 x 0,75	0,21	9,9	79,4	154
62261207	12 x 0,75	0,21	13,5	146,1	272
62261807	18 x 0,75	0,21	15,9	227,2	396
62260310	3 x 1,00	0,21	7,9	50,2	93
62260410	4 x 1,00	0,21	8,5	62,2	112
62260510	5 x 1,00	0,21	9,5	74,3	139
62261610	16 x 1,00	0,21	15,7	251,0	406
62261810	18 x 1,00	0,21	16,6	270,9	450
62260315	3 x 1,50	0,26	8,5	67,0	113
62260415	4 x 1,50	0,26	9,4	83,9	142
62260515	5 x 1,50	0,26	10,3	101,2	170
62260715	7 x 1,50	0,26	11,5	154,7	234
62261215	12 x 1,50	0,26	15,5	270,0	403
62261815	18 x 1,50	0,26	18,3	370,1	567
62260325	3 x 2,50	0,26	10,0	101,1	160
62260425	4 x 2,50	0,26	11,3	143,8	236
62260525	5 x 2,50	0,26	12,5	174,4	265
62260340	3 x 4,00	0,31	11,7	169,2	236
62260440	4 x 4,00	0,31	12,9	213,1	297
62260540	5 x 4,00	0,31	14,5	277,7	380
62260460	4 x 6,00	0,31	15,2	327,3	442
62260560	5 x 6,00	0,31	16,8	386,4	522
62260760	7 x 6,00	0,31	18,4	514,3	677
62260461	4 x 10,0	0,41	18,9	495,7	682
62260561	5 x 10,0	0,41	21,2	605,9	847
62260362	3 x 16,0	0,41	20,7	585,9	787
62260562	5 x 16,0	0,41	25,6	936,8	1246
62260563	5 x 25,0	0,41	31,3	1594,7	1938
62260564	5 x 35,0	0,41	34,9	1901,3	2449

Other dimensions and colours are possible on request.



## SABIX® A 238 S Control cable with numbered cores and overall copper screen

BRÖCKSKES · D-VIERSEN · SABIX A 238 S 5 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 238 S 82380515:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 238 S 5 x 1,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 good EMC characteristics\*
- 】 very good stripping
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b> <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b> <i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82380205	2 x 0,50	0,21	5,3	25,5	39
82380305	3 x 0,50	0,21	5,6	30,7	48
82380405	4 x 0,50	0,21	6,2	48,0	60
82380505	5 x 0,50	0,21	6,7	55,9	71
82380705	7 x 0,50	0,21	7,2	71,1	86
82381205	12 x 0,50	0,21	9,6	108,1	143
82381805	18 x 0,50	0,21	11,4	143,3	215
82382505	25 x 0,50	0,21	13,8	189,7	289
82380207	2 x 0,75	0,21	6,1	31,1	51
82380307	3 x 0,75	0,21	6,4	50,6	63
82380407	4 x 0,75	0,21	6,9	61,1	76
82380507	5 x 0,75	0,21	7,7	73,7	93
82380707	7 x 0,75	0,21	8,3	90,9	116
82381207	12 x 0,75	0,21	11,2	142,4	202
82381807	18 x 0,75	0,21	13,3	197,9	292
82382507	25 x 0,75	0,21	16,2	284,6	415
82380210	2 x 1,00	0,21	6,3	48,0	57
82380310	3 x 1,00	0,21	6,6	58,2	70
82380410	4 x 1,00	0,21	7,1	75,7	85
82380510	5 x 1,00	0,21	8,0	86,1	107
82380710	7 x 1,00	0,21	8,6	108,2	135
82381210	12 x 1,00	0,21	11,8	172,1	241
82381810	18 x 1,00	0,21	13,8	242,1	336

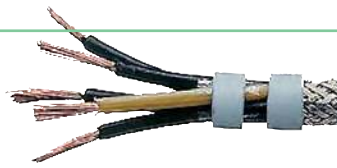
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
82382510	25 x 1,00	0,21	16,8	346,5	476
82380215	2 x 1,50	0,26	6,9	60,7	70
82380315	3 x 1,50	0,26	7,2	80,5	90
82380415	4 x 1,50	0,26	8,1	95,6	119
82380515	5 x 1,50	0,26	9,0	113,2	140
82380715	7 x 1,50	0,26	9,7	151,2	178
82381215	12 x 1,50	0,26	13,3	240,8	314
82381815	18 x 1,50	0,26	15,7	362,3	464
82382515	25 x 1,50	0,26	19,1	492,1	638
82380225	2 x 2,50	0,26	8,3	86,3	102
82380325	3 x 2,50	0,26	9,0	113,0	136
82380425	4 x 2,50	0,26	9,7	146,2	169
82380525	5 x 2,50	0,26	11,0	175,0	221
82380725	7 x 2,50	0,26	12,1	225,1	287
82381225	12 x 2,50	0,26	16,4	392,0	496
82381825	18 x 2,50	0,26	19,3	564,1	716
82382525	25 x 2,50	0,26	23,4	770,1	971
82380440	4 x 4,00	0,31	11,5	210,7	257
82380540	5 x 4,00	0,31	12,8	260,0	318
82380640	4 x 6,00	0,31	13,6	298,4	363
82380560	5 x 6,00	0,31	15,1	358,7	451
82380461	4 x 10,00	0,41	17,8	517,1	648
82380462	4 x 16,00	0,41	21,5	756,0	945

Other dimensions and colours are possible on request.





## SABIX® A 238 FRNC Control cable with numbered cores, overall copper screen and improved fire performance



BRÖCKSKES · D-VIERSEN · SABIX A 238 FRNC 5 x 1,5 mm²

Marking for SABIX A 238 FRNC 62380515:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 238 FRNC 5 x 1,5 mm² CE

A  
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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 good EMC characteristics\*
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 very good stripping
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>o</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2, core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+85 °C
<i>flexible application:</i>	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62380205	2 x 0,50	0,21	5,5	25,5	42
62380305	3 x 0,50	0,21	5,8	30,7	51
62380405	4 x 0,50	0,21	6,4	35,3	62
62380505	5 x 0,50	0,21	6,5	43,5	74
62380705	7 x 0,50	0,21	7,4	53,4	87
62381205	12 x 0,50	0,21	9,8	86,6	143
62381805	18 x 0,50	0,21	11,6	140,4	214
62382505	25 x 0,50	0,21	14,8	18,0	285
62380207	2 x 0,75	0,21	6,3	30,5	55
62380307	3 x 0,75	0,21	6,6	39,3	66
62380407	4 x 0,75	0,21	7,1	48,4	78
62380507	5 x 0,75	0,21	7,9	57,4	97
62380707	7 x 0,75	0,21	8,5	74,2	117
62381207	12 x 0,75	0,21	11,4	134,3	202
62381807	18 x 0,75	0,21	13,5	189,3	290
62382507	25 x 0,75	0,21	16,4	277,9	409
62380210	2 x 1,00	0,21	6,5	36,8	61
62380310	3 x 1,00	0,21	6,8	46,5	73
62380410	4 x 1,00	0,21	7,3	58,1	88
62380510	5 x 1,00	0,21	8,2	71,7	111
62380710	7 x 1,00	0,21	8,8	93,3	135
62381210	12 x 1,00	0,21	12,0	169,3	240
62381810	18 x 1,00	0,21	14,0	232,8	332

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62382510	25 x 1,00	0,21	17,0	338,6	467
62380215	2 x 1,50	0,26	7,1	60,7	74
62380315	3 x 1,50	0,26	7,7	69,5	96
62380415	4 x 1,50	0,26	8,3	81,3	116
62380515	5 x 1,50	0,26	9,2	98,2	143
62380715	7 x 1,50	0,26	9,9	129,8	177
62381215	12 x 1,50	0,26	13,5	232,5	312
62381815	18 x 1,50	0,26	15,9	356,8	455
62382515	25 x 1,50	0,26	19,3	472,0	626
62380225	2 x 2,50	0,26	8,5	71,8	106
62380325	3 x 2,50	0,26	9,2	98,2	139
62380425	4 x 2,50	0,26	9,9	132,0	170
62380525	5 x 2,50	0,26	11,2	167,7	222
62380725	7 x 2,50	0,26	12,3	222,3	285
62381225	12 x 2,50	0,26	16,6	386,1	488
62381825	18 x 2,50	0,26	19,5	564,1	550
62382525	25 x 2,50	0,26	23,6	741,1	948
62380440	4 x 4,00	0,31	11,7	207,6	257
62380540	5 x 4,00	0,31	13,0	251,5	316
62380460	4 x 6,00	0,31	13,8	290,2	362
62380560	5 x 6,00	0,31	15,5	385,2	466
62380461	4 x 10,00	0,41	18,0	499,6	629
62380462	4 x 16,00	0,41	21,7	752,6	919

Other dimensions and colours are possible on request.

# HALOGEN-FREE CABLES

## SABIX® A 260 PUR Cold-flexible, oil resistant control cable with numbered cores

SAB BRÖCKSKES · D-VIERSEN · SABIX A 260 PUR 7 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 260 PUR 52600715:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 260 PUR 7 x 1,5 mm<sup>2</sup> CE

A  
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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	SABIX® - from 4,0 mm <sup>2</sup>
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 oil resistant
- 】 flexible at low temperatures
- 】 weather resistant
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Oil resistance:</b>	very good -TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52600207	2 x 0,75	0,21	5,6	14,4	39
52600307	3 x 0,75	0,21	5,9	21,6	47
52600407	4 x 0,75	0,21	6,4	28,8	57
52600507	5 x 0,75	0,21	7,0	36,0	68
52600707	7 x 0,75	0,21	7,6	50,4	87
52601007	10 x 0,75	0,21	9,6	72,0	119
52601207	12 x 0,75	0,21	10,3	86,4	145
52601807	18 x 0,75	0,21	12,0	129,6	206
52602507	25 x 0,75	0,21	14,7	180,0	284
52600210	2 x 1,00	0,21	5,8	19,2	44
52600310	3 x 1,00	0,21	6,1	28,8	54
52600410	4 x 1,00	0,21	6,6	38,4	66
52600510	5 x 1,00	0,21	7,3	48,0	81
52600710	7 x 1,00	0,21	7,9	67,2	103
52601010	10 x 1,00	0,21	10,4	96,0	143
52601210	12 x 1,00	0,21	10,7	115,2	173
52601810	18 x 1,00	0,21	12,5	172,8	247
52602510	25 x 1,00	0,21	15,3	240,0	341
52600215	2 x 1,50	0,26	6,4	28,8	57
52600315	3 x 1,50	0,26	6,8	43,2	72
52600415	4 x 1,50	0,26	7,4	57,6	88
52600515	5 x 1,50	0,26	8,1	72,0	107
52600715	7 x 1,50	0,26	8,8	100,8	139

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
52601015	10 x 1,50	0,26	11,6	144,0	191
52601215	12 x 1,50	0,26	12,0	172,8	233
52601815	18 x 1,50	0,26	14,0	259,2	336
52602515	25 x 1,50	0,26	17,0	360,0	451
52600225	2 x 2,50	0,26	7,6	48,0	86
52600325	3 x 2,50	0,26	8,5	72,0	114
52600425	4 x 2,50	0,26	8,8	96,0	135
52600525	5 x 2,50	0,26	10,1	120,0	172
52600725	7 x 2,50	0,26	11,0	168,0	224
52601025	10 x 2,50	0,26	14,0	240,0	311
52601225	12 x 2,50	0,26	14,9	288,0	373
52601825	18 x 2,50	0,26	17,4	432,0	539
52602525	25 x 2,50	0,26	21,7	600,0	755
52600340	3 x 4,00	0,31	11,7	115,2	198
52600440	4 x 4,00	0,31	12,6	153,6	243
52600540	5 x 4,00	0,31	13,7	192,0	293
52600360	3 x 6,00	0,31	14,0	172,8	290
52600460	4 x 6,00	0,31	15,1	230,4	357
52600560	5 x 6,00	0,31	16,4	288,0	431
52600461	4 x 10,0	0,41	18,9	384,0	582
52600561	5 x 10,0	0,41	20,6	480,0	709
52600462	4 x 16,0	0,41	22,2	614,4	851
52600562	5 x 16,0	0,41	24,4	768,0	1041

Other dimensions and colours are possible on request.

## SABIX® A 130 HT High temperature resistant control cable with numbered or coloured cores



Marking for SABIX A 130 HT 71300415:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 130 HT CE

### Construction:

<b>Conductor:</b>	silver-plated copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	coloured acc. to HD 308 (VDE 0293 part 308); from 3 cores a green-yellow earth wire; from 6 cores black insulation with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7015)

### Outstanding features:

- 】 halogen-free
- 】 high temperature resistant
- 】 flexible
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+220 °C
<i>flexible application:</i>	-25/+220 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
71300205	2 x 0,50	0,21	5,0	9,6	30
71300305	3 x 0,50	0,21	5,3	14,4	36
71300405	4 x 0,50	0,21	5,7	19,2	44
71300505	5 x 0,50	0,21	6,3	24,0	54
71300705	7 x 0,50	0,21	6,8	33,6	67
71301005	10 x 0,50	0,21	8,8	48,0	95
71301205	12 x 0,50	0,21	9,1	57,6	109
71301805	18 x 0,50	0,21	10,8	86,4	161
71300207	2 x 0,75	0,21	5,6	14,4	39
71300307	3 x 0,75	0,21	5,9	21,6	48
71300407	4 x 0,75	0,21	6,4	28,8	58
71300507	5 x 0,75	0,21	7,1	36,0	73
71300707	7 x 0,75	0,21	7,9	50,4	93
71301007	10 x 0,75	0,21	10,2	72,0	132
71301207	12 x 0,75	0,21	10,5	86,4	152
71301807	18 x 0,75	0,21	12,5	129,6	225
71300210	2 x 1,00	0,21	5,8	19,2	45
71300310	3 x 1,00	0,21	6,1	28,8	55
71300410	4 x 1,00	0,21	6,7	38,4	68
71300510	5 x 1,00	0,21	7,3	48,0	85
71300710	7 x 1,00	0,21	8,2	67,2	110
71301010	10 x 1,00	0,21	10,6	96,0	162
71301210	12 x 1,00	0,21	10,9	115,2	180
71301810	18 x 1,00	0,21	13,0	172,8	267
71302510	25 x 1,00	0,21	15,7	240,0	358
71300215	2 x 1,50	0,26	6,7	28,8	61
71300315	3 x 1,50	0,26	7,1	43,2	76
71300415	4 x 1,50	0,26	7,9	57,6	96
71300515	5 x 1,50	0,26	8,8	72,0	123
71300715	7 x 1,50	0,26	9,6	100,8	155
71301015	10 x 1,50	0,26	12,6	144,0	223

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
71301215	12 x 1,50	0,26	13,0	172,8	258
71301815	18 x 1,50	0,26	15,6	259,2	386
71302515	25 x 1,50	0,26	18,8	360,0	523
71300225	2 x 2,50	0,26	8,2	48,0	95
71300325	3 x 2,50	0,26	8,7	72,0	120
71300425	4 x 2,50	0,26	9,5	96,0	149
71300525	5 x 2,50	0,26	10,8	120,0	192
71300725	7 x 2,50	0,26	11,8	168,0	245
71301025	10 x 2,50	0,26	15,4	240,0	350
71301225	12 x 2,50	0,26	15,9	288,0	406
71301825	18 x 2,50	0,26	18,8	432,0	598
71300340	3 x 4,00	0,31	10,4	115,2	181
71300440	4 x 4,00	0,31	11,3	153,6	225
71300540	5 x 4,00	0,31	12,7	192,0	285
71300740	7 x 4,00	0,31	13,8	268,8	365
71300360	3 x 6,00	0,31	11,6	172,8	249
71300460	4 x 6,00	0,31	12,7	230,4	312
71300560	5 x 6,00	0,31	14,0	288,0	389
71300760	7 x 6,00	0,31	15,7	403,2	515
71300461	4 x 10,0	0,41	18,8	384,0	595
71300561	5 x 10,0	0,41	20,8	480,0	743
71300761	7 x 10,0	0,41	23,2	672,0	995
71300462	4 x 16,0	0,41	21,6	614,4	904
71300562	5 x 16,0	0,41	24,3	768,0	1146
71300762	7 x 16,0	0,41	26,6	1075,2	1486
71300263	2 x 25,0	0,41	22,4	480,0	833
71300463	4 x 25,0	0,41	26,6	960,0	1384
71300563	5 x 25,0	0,41	29,5	1200,0	1726
71300364	3 x 35,0	0,41	26,8	1008,0	1436
71300464	4 x 35,0	0,41	29,5	1344,0	1819

Other dimensions and colours are possible on request.



## SABIX® CC 625 FRNC M Control cable with numbered cores

le 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE



Marking for SABIX CC 625 FRNC M 62521215:

SAB BRÖCKSKES · D-VIERSEN · 62521215 12 x 1,5 mm<sup>2</sup> SABIX CC 625 FRNC M 16 AWG/12c 62521612

AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- › halogen-free
- › UL recognized, CSA approved
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › EAC approval

### Technical data:

<b>Nominal voltage:</b>	<b>UL/CSA:</b> 600 V <b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	<b>UL:</b> up to +75 °C <b>CSA:</b> up to + 80 °C
<i>fixed laying:</i>	<b>DIN VDE:</b> -40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>▶ 20 AWG (15/32) • 0,50 mm<sup>2</sup></b>					<b>18 AWG (30/32) • 1,00 mm<sup>2</sup></b>					<b>▶ 14 AWG (46/30) • 2,50 mm<sup>2</sup></b>				
62520205	2	5,2	10,3	40	62520215	2	5,9	19,2	54	62520225	2	7,8	48,0	104
62520305	3	5,5	15,4	47	62520310	3	6,3	28,8	66	62520325	3	8,3	72,0	128
62520405	4	5,9	20,5	56	62520410	4	6,8	38,4	80	62520425	4	9,2	96,0	161
62520505	5	6,4	25,6	65	62520510	5	7,5	48,0	97	62520525	5	10,1	120,0	195
62520705	7	7,0	35,9	83	62520710	7	8,2	67,2	124	62520725	7	11,2	168,0	257
62520805	8	8,2	41,0	104	62520810	8	9,6	76,8	152	62520825	8	13,4	192,0	316
62520905	9	8,9	46,1	118	62520910	9	10,5	86,4	173	62520925	9	14,3	216,0	348
62521005	10	9,1	51,3	120	62521010	10	10,7	96,0	179	62521025	10	14,8	240,0	375
62521205	12	9,3	61,5	136	62521210	12	11,0	115,2	204	62521225	12	15,3	288,0	431
62521405	14	9,8	71,8	154	62521410	14	11,5	134,4	231	62521825	18	18,2	432,0	632
62521605	16	10,5	82,0	177	62521810	18	13,0	172,8	294	62522525	25	22,3	600,0	871
62521805	18	11,1	92,3	196	62522510	25	15,8	240,0	404	<b>▶ 12 AWG (52/28) • 4,00 mm<sup>2</sup></b>				
62522505	25	13,5	128,2	270	62523010	30	16,6	288,0	477	62520340	3	9,7	115,2	188
62523005	30	13,9	153,8	310	62523410	34	18,0	326,4	543	62520440	4	10,8	153,6	238
62523405	34	15,2	174,3	355	62524010	40	19,5	384,0	639	62520540	5	12,1	192,0	295
62524005	40	16,5	205,1	421	62524110	41	19,5	393,6	675	62520740	7	13,4	268,8	388
62524105	41	16,5	210,2	428	62526110	61	22,9	585,6	931	<b>▶ 10 AWG (78/28) • 6,00 mm<sup>2</sup></b>				
62526105	61	19,3	312,8	608	<b>▶ 16 AWG (27-29/30) • 1,50 mm<sup>2</sup></b>					62520360	3	11,4	172,8	271
<b>▶ 19 AWG (23/32) • 0,75 mm<sup>2</sup></b>					62520215	2	6,5	28,8	69	62520460	4	12,7	230,4	343
62520207	2	5,7	14,4	48	62520315	3	6,9	43,2	85	62520560	5	14,2	288,0	425
62520307	3	6,0	21,6	57	62520415	4	7,6	57,6	105	<b>▶ 8 AWG (77/26) • 10,00 mm<sup>2</sup></b>				
62520407	4	6,5	28,8	69	62520515	5	8,3	72,0	129	62520461	4	17,2	384,0	608
62520507	5	7,1	36,0	81	62520715	7	9,3	100,8	166	62520561	5	19,3	480,0	756
62520707	7	7,9	50,4	106	62520815	8	10,9	115,2	202	<b>▶ 6 AWG (119/26) • 16,00 mm<sup>2</sup></b>				
62520807	8	9,3	57,6	132	62520915	9	11,8	129,6	228	62520462	4	21,1	614,4	909
62520907	9	9,9	64,8	145	62521015	10	12,1	144,0	240	<b>▶ 4 AWG (196/26) • 25,00 mm<sup>2</sup></b>				
62521007	10	10,1	72,0	149	62521215	12	12,4	172,8	274	62520463	4	26,5	960,0	1475
62521207	12	10,6	86,4	175	62521415	14	13,0	201,6	311	<b>▶ 2 AWG (280/26) • 35,00 mm<sup>2</sup></b>				
62521407	14	11,1	100,8	197	62521815	18	14,9	259,2	404	62520464	4	30,2	1344,0	2004
62521607	16	11,9	115,2	226	62522515	25	18,1	360,0	558	Other dimensions and colours are possible on request.				
62521807	18	12,5	129,6	250	62523015	30	18,7	432,0	647					
62522507	25	15,2	180,0	344	62523415	34	20,5	489,6	747					
62523007	30	15,7	216,0	397	62524015	40	22,2	576,0	874					
62523407	34	17,1	244,8	453	62524115	41	22,2	590,4	883					
62524007	40	18,6	288,0	535	62526115	61	26,0	878,4	1281					
62524107	41	18,6	295,2	545										
62526107	61	22,0	439,2	786										



## SABIX® CC 625 S FRNC M Control cable with numbered cores and overall copper screen



AWM Style 21089 75°C 600V CSA AWM I/II A/B 80

Marking for SABIX CC 625 S FRNC M 62341215:  
 SAB BRÖCKSKES · D-VIERSEN · 62341215 12 x 1,5 mm<sup>2</sup> SABIX CC 625 S FRNC M 16 AWG/12c 62341612  
 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

Construction:	
<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

Technical data:	
<b>Nominal voltage:</b>	<b>UL/CSA:</b> 600 V <b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	<b>UL:</b> up to +75 °C <b>CSA:</b> up to + 80 °C
fixed laying:	<b>DIN VDE:</b> -40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

Outstanding features:	
)	halogen-free
)	UL recognized, CSA approved
)	no flame propagation
)	good EMC characteristics*
)	flame retardant and self-extinguishing
)	flexible
)	EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>▶ 20 AWG (17/32) • 0,50 mm<sup>2</sup></b>					<b>▶ 18 AWG (30/32) • 1,00 mm<sup>2</sup></b>					<b>▶ 14 AWG (46/36) • 2,50 mm<sup>2</sup></b>				
62340205	2	5,7	20,8	45	62340210	2	6,4	30,9	58	62340225	2	8,3	63,8	101
62340305	3	6,0	26,0	54	62340310	3	6,8	41,8	73	62340325	3	9,0	89,4	136
62340405	4	6,4	32,2	64	62340410	4	7,3	51,5	87	62340425	4	9,7	115,3	168
62340505	5	7,0	38,7	76	62340510	5	8,0	63,7	107	62340525	5	11,0	151,7	220
62340705	7	7,6	50,3	96	62340710	7	8,9	84,6	139	62340725	7	12,1	204,1	286
62340805	8	8,9	58,4	121	62340810	8	10,1	96,2	165	62340825	8	14,1	236,0	346
62340905	9	9,4	63,6	131	62340910	9	11,2	118,2	200	62340925	9	15,2	260,4	386
62341005	10	9,6	70,6	136	62341010	10	11,4	131,8	210	62341025	10	15,7	304,8	428
62341205	12	9,8	80,9	152	62341210	12	11,9	151,2	241	62341225	12	16,4	353,1	493
62341405	14	10,7	103,4	188	62341410	14	12,4	170,6	268	62341825	18	19,3	513,9	712
62341605	16	11,2	113,8	206	62341810	18	13,9	216,7	340	62342525	25	23,4	693,5	965
62341805	18	12,0	128,3	234	62342510	25	16,9	312,8	483	<b>▶ 12 AWG (52/28) • 4,00 mm<sup>2</sup></b>				
62342505	25	13,8	168,2	306	62343010	30	17,7	361,3	556	62340340	3	10,6	146,8	205
62343005	30	15,0	198,0	361	62343410	34	19,1	400,7	629	62340440	4	11,5	189,5	256
62343405	34	16,3	239,4	429	62344010	40	20,6	467,1	730	62340540	5	12,8	231,6	316
62344005	40	17,6	278,3	503	62344110	41	20,6	476,7	742	62340740	7	14,1	312,8	412
62344105	41	17,6	283,4	514	62346110	61	24,0	687,8	1042	<b>▶ 10 AWG (78/28) • 6,00 mm<sup>2</sup></b>				
62346105	61	20,2	395,6	693	<b>▶ 16 AWG (27-29/30) • 1,50 mm<sup>2</sup></b>					62340360	3	12,3	208,9	284
					62340215	2	7,0	41,8	71	62340460	4	13,6	270,2	362
					62340315	3	7,5	57,5	92	62340560	5	15,1	332,3	449
					62340415	4	8,1	73,4	113	<b>▶ 8 AWG (77/26) • 10,00 mm<sup>2</sup></b>				
					62340515	5	9,0	89,4	139	62340461	4	18,3	457,8	636
					62340715	7	9,8	120,1	178	62340561	5	20,2	562,9	783
					62340815	8	11,8	151,1	236	<b>▶ 6 AWG (119/26) • 16,00 mm<sup>2</sup></b>				
					62340915	9	12,5	165,8	259	62340462	4	22,2	706,7	927
					62341015	10	12,8	183,6	272	<b>▶ 4 AWG (196/26) • 25,00 mm<sup>2</sup></b>				
					62341215	12	13,3	212,5	313	62340463	4	27,4	1074,8	1450
					62341415	14	13,9	245,5	354	<b>▶ 2 AWG (280/26) • 35,00 mm<sup>2</sup></b>				
					62341815	18	15,8	324,1	464	62340464	4	31,3	1471,8	1959
					62342515	25	19,2	441,8	644	Other dimensions and colours are possible on request.				
					62343015	30	19,8	514,5	734					
					62343415	34	21,4	581,2	835					
					62344015	40	23,1	669,4	963					
					62344115	41	23,1	683,8	972					
					62346115	61	27,1	992,6	1403					



## SABIX® CC 625 SH FRNC M Control cable with numbered cores, inner sheath and overall copper screen



Marking for SABIX CC 625 SH FRNC M 62571215:  
 SAB BRÖCKSKES · D-VIERSEN · 62571215 12 x 1,5 mm<sup>2</sup> SABIX CC 625 SH FRNC M 16AWG/12c 62571612  
 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

A  
30

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	SABIX®
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical data:

<b>Nominal voltage:</b>	<b>UL/CSA:</b> 600 V <b>DIN VDE:</b> Uo/U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	<b>UL:</b> up to +75 °C <b>CSA:</b> up to +80 °C
fixed laying:	<b>DIN VDE:</b> -40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, CSA FT1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Outstanding features:

- )] halogen-free
- )] UL recognized, CSA approved
- )] no flame propagation
- )] good EMC characteristics\*
- )] flame retardant and self-extinguishing
- )] flexible
- )] EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>▶ 20 AWG (17/32) • 0,50 mm<sup>2</sup></b>					<b>▶ 18 AWG (30/32) • 1,00 mm<sup>2</sup></b>					<b>▶ 14 AWG (46/30) • 2,50 mm<sup>2</sup></b>				
62570205	2	7,0	23,3	74	62570210	2	7,8	33,6	94	62570225	2	9,8	67,3	157
62570305	3	7,3	28,5	82	62570310	3	8,2	44,6	108	62570325	3	10,7	103,6	202
62570405	4	7,8	34,9	95	62570410	4	8,9	55,8	129	62570425	4	11,4	131,8	238
62570505	5	8,4	41,5	110	62570510	5	9,5	67,3	149	62570525	5	12,7	159,5	290
62570705	7	9,1	53,3	134	62570710	7	10,4	86,6	183	62570725	7	13,8	207,9	357
62570805	8	10,4	60,5	164	62570810	8	12,2	112,9	241	62570825	8	16,2	257,0	454
62570905	9	11,1	77,9	189	62570910	9	12,9	126,0	264	62570925	9	17,1	288,9	498
62571005	10	11,3	87,1	196	62571010	10	13,3	135,7	277	62571025	10	17,6	313,2	528
62571205	12	11,5	97,4	213	62571210	12	13,6	155,0	304	62571225	12	18,3	361,8	596
62571405	14	12,4	108,0	244	62571410	14	14,1	178,4	337	62571825	18	21,2	515,7	822
62571605	16	12,9	121,6	268	62571810	18	15,8	237,7	430	62572525	25	25,5	704,0	1115
62571805	18	13,7	132,1	296	62572510	25	18,8	314,2	572	<b>▶ 12 AWG (52/28) • 4,00 mm<sup>2</sup></b>				
62572505	25	16,3	193,3	409	62573010	30	19,6	370,2	657	62570340	3	12,3	151,3	228
62573005	30	16,7	219,2	451	62573410	34	21,0	409,9	732	62570440	4	13,4	193,3	337
62573405	34	18,0	247,9	511	62574010	40	22,5	476,7	845	62570540	5	14,7	236,1	405
62574005	40	19,5	287,2	602	62574110	41	22,5	486,3	857	62570740	7	16,2	333,8	526
62574105	41	19,5	292,4	608	62576110	61	26,3	690,5	1191	<b>▶ 10 AWG (78/28) • 6,00 mm<sup>2</sup></b>				
62576105	61	22,3	405,2	813	<b>▶ 16 AWG (27-29/30) • 1,50 mm<sup>2</sup></b>					62570360	3	14,0	216,7	377
<b>▶ 19 AWG (23/32) • 0,75 mm<sup>2</sup></b>					62570215	2	8,4	44,6	112	62570460	4	15,5	295,1	477
62570207	2	7,6	28,8	87	62570315	3	9,0	60,6	135	62570560	5	17,0	360,9	575
62570307	3	7,9	36,1	97	62570415	4	9,6	76,9	158	<b>▶ 8 AWG (77/26) • 10,00 mm<sup>2</sup></b>				
62570407	4	8,4	46,2	113	62570515	5	10,7	103,6	199	62570461	4	20,2	466,9	791
62570507	5	9,3	53,5	134	62570715	7	11,5	136,7	243	62570561	5	22,3	572,4	960
62570707	7	9,9	69,8	160	62570815	8	13,5	154,9	301	<b>▶ 6 AWG (119/26) • 16,00 mm<sup>2</sup></b>				
62570807	8	11,5	93,5	209	62570915	9	14,2	173,6	330	62570462	4	24,3	717,0	1144
62570907	9	12,3	100,9	230	62571015	10	14,7	188,1	349	<b>▶ 4 AWG (196/26) • 25,00 mm<sup>2</sup></b>				
62571007	10	12,7	111,5	244	62571215	12	15,0	217,1	385	62570463	4	29,7	1079,0	1758
62571207	12	13,0	126,0	267	62571415	14	15,8	266,5	446	<b>▶ 2 AWG (280/26) • 35,00 mm<sup>2</sup></b>				
62571407	14	13,7	140,6	297	62571815	18	17,7	332,5	557	62570464	4	33,8	1480,9	2358
62571607	16	14,3	159,3	328	62572515	25	21,1	443,6	748	Other dimensions and colours are possible on request.				
62571807	18	15,1	173,9	361	62573015	30	21,7	523,9	848					
62572507	25	18,0	253,5	499	62573415	34	23,5	583,3	959					
62573007	30	18,7	290,1	563	62574015	40	25,4	679,9	1117					
62573407	34	20,1	327,6	636	62574115	41	25,4	694,3	1126					
62574007	40	21,6	379,8	735	62576115	61	29,4	996,7	1574					
62574107	41	21,6	387,0	745										
62576107	61	25,2	542,8	1028										

## SABIX® A 810 S Motor connection cable with numbered cores and improved fire performance



Marking for SABIX A 810 S 88101215:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 810 S 12 x 1,5 mm² 0,6/1 kV CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 flexible
- 】 very good stripping
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage:</b>	4000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
88100215	2 x 1,50	0,26	8,9	28,8	114
88100315	3 x 1,50	0,26	9,4	43,2	134
88100415	4 x 1,50	0,26	10,1	57,6	158
88100515	5 x 1,50	0,26	11,0	72,0	188
88100615	6 x 1,50	0,26	11,9	86,4	217
88100715	7 x 1,50	0,26	11,9	100,8	225
88100815	8 x 1,50	0,26	13,8	115,2	281
88101015	10 x 1,50	0,26	15,0	144,0	321
88101215	12 x 1,50	0,26	15,6	172,8	370
88100225	2 x 2,50	0,26	10,1	48,0	154
88100325	3 x 2,50	0,26	10,6	72,0	182
88100425	4 x 2,50	0,26	11,5	96,0	219
88100525	5 x 2,50	0,26	12,6	120,0	263
88100625	6 x 2,50	0,26	13,8	144,0	308
88100725	7 x 2,50	0,26	13,8	168,0	335
88101225	12 x 2,50	0,26	18,1	288,0	534
88100240	2 x 4,00	0,31	11,3	76,8	204
88100340	3 x 4,00	0,31	11,9	115,2	246
88100440	4 x 4,00	0,31	13,2	153,6	303
88100540	5 x 4,00	0,31	14,3	192,0	358
88100640	6 x 4,00	0,31	15,7	230,4	426
88100740	7 x 4,00	0,31	15,7	268,8	466
88100260	2 x 6,00	0,31	12,3	115,2	258
88100360	3 x 6,00	0,31	13,3	172,8	321
88100460	4 x 6,00	0,31	14,3	230,4	392
88100560	5 x 6,00	0,31	15,8	288,0	472

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
88100660	6 x 6,00	0,31	17,2	345,6	557
88100760	7 x 6,00	0,31	17,2	403,2	615
88100270	2 x 10,00	0,41	17,3	192,0	496
88100370	3 x 10,00	0,41	18,3	288,0	607
88100470	4 x 10,00	0,41	20,0	384,0	744
88100570	5 x 10,00	0,41	21,9	480,0	892
88100670	6 x 10,00	0,41	23,9	576,0	1033
88100770	7 x 10,00	0,41	23,9	672,0	1149
88100280	2 x 16,00	0,41	20,3	307,2	698
88100380	3 x 16,00	0,41	21,5	460,8	856
88100480	4 x 16,00	0,41	23,5	614,4	1054
88100580	5 x 16,00	0,41	25,9	768,0	1293
88100680	6 x 16,00	0,41	28,3	921,6	1499
88100780	7 x 16,00	0,41	28,3	1075,2	1675
88100290	2 x 25,00	0,41	24,4	480,0	1056
88100390	3 x 25,00	0,41	25,9	720,0	1315
88100490	4 x 25,00	0,41	28,4	960,0	1611
88100590	5 x 25,00	0,41	31,4	1200,0	1970
88100690	6 x 25,00	0,41	34,4	1440,0	2325
88100790	7 x 25,00	0,41	34,4	1680,0	2581
88100295	2 x 35,00	0,41	27,4	672,0	1370
88100395	3 x 35,00	0,41	29,0	1008,0	1736
88100495	4 x 35,00	0,41	32,0	1344,0	2170
88100296	2 x 50,00	0,41	31,0	960,0	1845
88100396	3 x 50,00	0,41	33,1	1440,0	2345
88100496	4 x 50,00	0,41	36,3	1920,0	2925

Other dimensions and colours are possible on request.

## SABIX® A 810 FRNC Motor connection cable with numbered cores, improved fire performance and extended temperature range

SKES · D-VIERSEN · SABIX A 810 FRNC rf 0,6/1 kV 7 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 810 FRNC 68100715:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 810 FRNC rf 0,6/1 kV 7 x 1,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage:</b>	4000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+85 °C
<i>flexible application:</i>	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

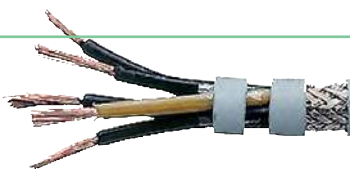
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
68100315	3 x 1,50	0,26	9,4	43,2	127
68100415	4 x 1,50	0,26	10,1	57,6	149
68100515	5 x 1,50	0,26	11,0	72,0	176
68100715	7 x 1,50	0,26	11,9	100,8	215
68100325	3 x 2,50	0,26	10,6	72,0	173
68100425	4 x 2,50	0,26	11,5	96,0	206
68100525	5 x 2,50	0,26	12,6	120,0	245
68100725	7 x 2,50	0,26	13,8	168,0	309
68100340	3 x 4,00	0,31	11,9	115,2	234
68100440	4 x 4,00	0,31	13,2	153,6	286
68100540	5 x 4,00	0,31	14,3	192,0	337
68100740	7 x 4,00	0,31	15,7	268,8	435
68100360	3 x 6,00	0,31	13,3	172,8	308
68100460	4 x 6,00	0,31	14,3	230,4	373

Art.-Nr.	Aderzahl x Querschnitt n x mm <sup>2</sup>	Größter Einzeldraht ø mm	Außen-ø ± 5% mm	Cu- Zahl kg/km	Leitungs- gewicht ≈ kg/km
68100560	5 x 6,00	0,31	15,8	288,0	448
68100760	7 x 6,00	0,31	17,2	403,2	579
68100370	3 x 10,0	0,41	18,3	288,0	583
68100470	4 x 10,0	0,41	20,0	384,0	709
68100570	5 x 10,0	0,41	21,9	480,0	846
68100770	7 x 10,0	0,41	23,9	672,0	1082
68100380	3 x 16,0	0,41	21,5	460,8	823
68100480	4 x 16,0	0,41	23,5	614,4	1007
68100580	5 x 16,0	0,41	25,9	768,0	1232
68100780	7 x 16,0	0,41	28,3	1075,2	1585
68100390	3 x 25,0	0,41	25,9	720,0	1265
68100490	4 x 25,0	0,41	28,4	960,0	1557
68100590	5 x 25,0	0,41	31,4	1200,0	1878
68100790	7 x 25,0	0,41	34,4	1680,0	2445

Other dimensions and colours are possible on request.



## SABIX® A 813 S Motor connection cable with numbered cores, improved fire performance and overall copper screen



BRÖCKSKES · D-VIERSEN · SABIX A 813 S 5 x 1,5 mm<sup>2</sup> 0,6/1 kV

Marking for SABIX A 813 S 88130515:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 813 S 5 x 1,5 mm<sup>2</sup> 0,6/1 kV CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 good EMC characteristics\*
- 】 very good stripping
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage:</b>	4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-30/+70 °C
flexible application:	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
88130205	2 x 0,50	0,21	7,1	29,1	61
88130305	3 x 0,50	0,21	7,4	34,0	73
88130405	4 x 0,50	0,21	8,2	40,9	90
88130505	5 x 0,50	0,21	8,9	47,8	109
88130605	6 x 0,50	0,21	9,8	55,1	131
88130705	7 x 0,50	0,21	9,8	59,9	134
88131205	12 x 0,50	0,21	13,0	122,0	230
88130207	2 x 0,75	0,21	7,9	35,9	76
88130307	3 x 0,75	0,21	8,3	43,3	91
88130407	4 x 0,75	0,21	8,9	52,6	109
88130507	5 x 0,75	0,21	9,9	64,9	138
88130607	6 x 0,75	0,21	11,0	90,6	178
88130707	7 x 0,75	0,21	11,1	97,8	183
88131207	12 x 0,75	0,21	14,5	152,4	293
88130210	2 x 1,00	0,21	8,1	40,8	82
88130310	3 x 1,00	0,21	8,5	52,4	101
88130410	4 x 1,00	0,21	9,4	64,5	126
88130510	5 x 1,00	0,21	10,2	77,0	152
88130610	6 x 1,00	0,21	11,4	105,2	195
88130710	7 x 1,00	0,21	11,4	114,8	202
88131210	12 x 1,00	0,21	15,1	181,4	346
88130215	2 x 1,50	0,26	9,3	54,9	107
88130315	3 x 1,50	0,26	9,8	69,5	132
88130415	4 x 1,50	0,26	10,8	86,8	166
88130515	5 x 1,50	0,26	11,9	125,8	217
88130615	6 x 1,50	0,26	13,1	145,7	261
88130715	7 x 1,50	0,26	13,1	160,1	270
88131215	12 x 1,50	0,26	17,6	282,3	464
88130225	2 x 2,50	0,26	10,5	77,1	139
88130325	3 x 2,50	0,26	11,5	119,6	195
88130425	4 x 2,50	0,26	12,6	150,2	244
88130525	5 x 2,50	0,26	14,0	179,7	304
88130625	6 x 2,50	0,26	15,5	210,3	367
88130725	7 x 2,50	0,26	15,5	234,3	383
88131225	12 x 2,50	0,26	20,5	412,1	651

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
88130240	2 x 4,00	0,31	12,3	130,8	207
88130340	3 x 4,00	0,31	13,0	169,6	261
88130440	4 x 4,00	0,31	14,3	219,4	331
88130540	5 x 4,00	0,31	16,0	289,1	432
88130640	6 x 4,00	0,31	17,5	339,8	519
88130740	7 x 4,00	0,31	17,5	378,2	545
88130260	2 x 6,00	0,31	13,3	174,6	255
88130360	3 x 6,00	0,31	14,2	232,6	335
88130460	4 x 6,00	0,31	15,9	327,4	447
88130560	5 x 6,00	0,31	17,5	397,4	556
88130660	6 x 6,00	0,31	19,2	456,9	661
88130760	7 x 6,00	0,31	19,2	514,5	701
88130270	2 x 10,00	0,41	17,3	295,1	431
88130370	3 x 10,00	0,41	18,5	398,4	571
88130470	4 x 10,00	0,41	20,3	507,8	721
88130570	5 x 10,00	0,41	22,7	618,6	913
88130670	6 x 10,00	0,41	24,8	730,1	1096
88130770	7 x 10,00	0,41	24,8	826,1	1165
88130280	2 x 16,00	0,41	20,5	431,3	609
88130380	3 x 16,00	0,41	21,9	598,3	818
88130480	4 x 16,00	0,41	24,3	767,4	1049
88130580	5 x 16,00	0,41	27,0	973,6	1323
88130680	6 x 16,00	0,41	29,8	1099,1	1600
88130780	7 x 16,00	0,41	29,8	1252,7	1706
88130290	2 x 25,00	0,41	24,1	620,9	897
88130390	3 x 25,00	0,41	25,6	875,4	1219
88130490	4 x 25,00	0,41	28,5	1133,8	1572
88130590	5 x 25,00	0,41	31,7	1391,7	1984
88130690	6 x 25,00	0,41	34,9	1666,1	2414
88130790	7 x 25,00	0,41	34,9	1906,1	2598
88130295	2 x 35,00	0,41	27,9	844,5	1203
88130395	3 x 35,00	0,41	30,0	1186,1	1653
88130495	4 x 35,00	0,41	33,1	1545,0	2131
88130296	2 x 50,00	0,41	31,7	1151,7	1607
88130396	3 x 50,00	0,41	34,0	1644,4	2226

Other dimensions and colours are possible on request.

## SABIX® A 812 C FRNC

Motor connection cable with numbered cores, improved fire performance, inner sheath, overall copper screen and extended temperature range

D-VIERSEN · SABIX A 812 C FRNC rf 0,6/1 kV 7 x 1,5 mm<sup>2</sup> CE



Marking for SABIX A 812 C FRNC 68120715:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 812 C FRNC rf 0,6/1 kV 7 x 1,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	SABIX®
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- 】 halogen-free
- 】 good EMC characteristics\*
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage:</b>	4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+85 °C
<i>flexible application:</i>	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
68120315	3 x 1,50	0,26	11,3	90,9	202
68120415	4 x 1,50	0,26	12,0	111,7	226
68120715	7 x 1,50	0,26	13,8	160,8	312
68120325	3 x 2,50	0,26	12,6	126,5	258
68120425	4 x 2,50	0,26	13,5	155,8	298
68120525	5 x 2,50	0,26	15,0	216,9	373
68120725	7 x 2,50	0,26	16,2	266,9	437
68120440	4 x 4,00	0,31	16,3	251,6	454
68120740	7 x 4,00	0,31	18,0	379,9	589
68120360	3 x 6,00	0,31	15,1	270,0	426
68120460	4 x 6,00	0,31	16,7	328,8	516
68120760	7 x 6,00	0,31	19,9	528,3	777

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
68120370	3 x 10,0	0,41	19,4	412,3	614
68120470	4 x 10,0	0,41	21,0	522,4	746
68120570	5 x 10,0	0,41	22,8	645,5	916
68120770	7 x 10,0	0,41	25,1	842,0	1154
68120380	3 x 16,0	0,41	22,4	601,9	827
68120480	4 x 16,0	0,41	24,7	783,4	1055
68120580	5 x 16,0	0,41	27,0	942,8	1291
68120780	7 x 16,0	0,41	29,7	1274,0	1661
68120390	3 x 25,0	0,41	26,7	894,0	1188
68120490	4 x 25,0	0,41	29,4	1157,7	1510
68120590	5 x 25,0	0,41	32,3	1413,6	1862

Other dimensions and colours are possible on request.



## SABIX® D 305 S Flexible data cable



SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm

Marking for SABIX D 305 S 83053225:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm<sup>2</sup> CE

Construction:	
<b>Conductor:</b>	bare copper strands acc. to DIN VDE 0812
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

Outstanding features:	
]	halogen-free
]	no flame propagation
]	flame retardant and self-extinguishing
]	flexible
]	EAC approval

Technical data:	
<b>Peak operating voltage:</b>	< 0.25 mm <sup>2</sup> = max. 350 V ≥ 0.25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-30/+70 °C
<i>flexible application:</i>	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83050214	2 x 0,14	3,1	2,7	13
83050314	3 x 0,14	3,3	4,0	16
83050414	4 x 0,14	3,5	5,4	18
83050514	5 x 0,14	3,8	6,7	22
83050714	7 x 0,14	4,1	9,4	27
83050814	8 x 0,14	4,7	10,8	34
83051214	12 x 0,14	5,3	16,1	41
83051414	14 x 0,14	5,5	18,8	46
83051614	16 x 0,14	6,0	21,5	55
83051814	18 x 0,14	6,3	24,2	61
83052114	21 x 0,14	6,9	28,2	71
83052414	24 x 0,14	7,3	32,3	76
83052714	27 x 0,14	7,7	36,3	86
83053014	30 x 0,14	7,9	40,3	94
83053214	32 x 0,14	8,2	43,0	100
83053614	36 x 0,14	8,5	48,4	110
83054014	40 x 0,14	9,1	53,8	123
83054414	44 x 0,14	9,5	59,1	130
83055014	50 x 0,14	10,3	67,2	153
83056114	61 x 0,14	10,9	82,0	180
83050225	2 x 0,25	3,4	4,8	16
83050325	3 x 0,25	3,6	7,2	21
83050425	4 x 0,25	3,9	9,6	25
83050525	5 x 0,25	4,2	12,0	30
83050725	7 x 0,25	4,6	16,8	37
83050825	8 x 0,25	5,2	19,2	46
83051225	12 x 0,25	6,1	28,8	60
83051425	14 x 0,25	6,4	33,6	68
83051625	16 x 0,25	6,7	38,4	77

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83051825	18 x 0,25	7,1	43,2	86
83052125	21 x 0,25	7,9	50,4	104
83052425	24 x 0,25	8,4	57,6	111
83052725	27 x 0,25	8,6	64,8	122
83053025	30 x 0,25	8,9	72,0	135
83053225	32 x 0,25	9,2	76,8	141
83053625	36 x 0,25	10,0	86,4	168
83054025	40 x 0,25	10,6	96,0	186
83054425	44 x 0,25	11,1	105,6	198
83055025	50 x 0,25	11,6	120,0	220
83056125	61 x 0,25	12,3	146,4	261
83050234	2 x 0,34	4,0	6,5	24
83050334	3 x 0,34	4,2	9,8	29
83050434	4 x 0,34	4,6	13,1	35
83050534	5 x 0,34	5,0	16,3	43
83050734	7 x 0,34	5,5	22,8	53
83050834	8 x 0,34	6,5	26,1	70
83051234	12 x 0,34	7,3	39,2	86
83051434	14 x 0,34	7,9	45,7	101
83051634	16 x 0,34	8,3	52,2	115
83051834	18 x 0,34	8,8	58,8	128
83052134	21 x 0,34	10,0	68,5	159
83052434	24 x 0,34	10,6	78,3	170
83052734	27 x 0,34	10,8	88,1	187
83053034	30 x 0,34	11,2	97,9	204
83053234	32 x 0,34	11,6	104,4	217
83053634	36 x 0,34	12,1	117,5	242
83054034	40 x 0,34	12,9	130,6	269
83054434	44 x 0,34	13,5	143,6	286

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## SABIX® D 305 S Flexible data cable

SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm<sup>2</sup> CE



Marking for SABIX D 305 S 83053225:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83055034	50 x 0,34	14,5	183,2	333	83051275	12 x 0,75	9,4	86,4	150
83056134	61 x 0,34	15,4	199,1	394	83051475	14 x 0,75	10,3	100,8	180
83050250	2 x 0,50	4,3	9,6	29	83051675	16 x 0,75	10,8	115,2	204
83050350	3 x 0,50	4,5	14,4	34	83051875	18 x 0,75	11,4	129,6	228
83050450	4 x 0,50	4,9	19,2	42	83052175	21 x 0,75	12,5	151,2	267
83050550	5 x 0,50	5,4	24,0	52	83052475	24 x 0,75	13,3	172,8	288
83050750	7 x 0,50	6,1	33,6	67	83052775	27 x 0,75	13,6	194,4	318
83050850	8 x 0,50	7,1	38,4	86	83053075	30 x 0,75	14,5	216,0	361
83051250	12 x 0,50	8,1	57,6	109	83053275	32 x 0,75	15,0	230,4	385
83051450	14 x 0,50	8,5	67,2	124	83053675	36 x 0,75	15,6	259,2	424
83051650	16 x 0,50	9,0	76,8	141	83054075	40 x 0,75	16,7	288,0	474
83051850	18 x 0,50	9,5	86,4	157	83054475	44 x 0,75	17,5	316,8	517
83052150	21 x 0,50	10,9	100,8	195	83055075	50 x 0,75	18,3	360,0	564
83052450	24 x 0,50	11,5	115,2	209	83056175	61 x 0,75	19,8	439,2	708
83052750	27 x 0,50	11,7	129,6	230	83050280	2 x 1,00	5,1	19,2	44
83053050	30 x 0,50	12,1	144,0	251	83050380	3 x 1,00	5,4	28,8	54
83053250	32 x 0,50	12,6	153,6	268	83050480	4 x 1,00	6,1	38,4	70
83053650	36 x 0,50	13,1	172,8	298	83050580	5 x 1,00	6,7	48,0	86
83054450	44 x 0,50	15,1	211,2	368	83050680	6 x 1,00	7,3	57,6	103
83055050	50 x 0,50	15,7	240,0	410	83050780	7 x 1,00	7,3	67,2	109
83056150	61 x 0,50	16,7	292,8	482	83050285	2 x 1,50	5,6	28,8	56
83050275	2 x 0,75	4,9	14,4	38	83050385	3 x 1,50	6,1	43,2	72
83050375	3 x 0,75	5,2	21,6	47	83050485	4 x 1,50	6,7	57,6	90
83050475	4 x 0,75	5,9	28,8	60	83050585	5 x 1,50	7,7	72,0	118
83050575	5 x 0,75	6,4	36,0	73	83050685	6 x 1,50	8,4	86,4	140
83050775	7 x 0,75	7,0	50,4	92	83050785	7 x 1,50	8,4	100,8	150
83050875	8 x 0,75	8,3	57,6	120					

Other dimensions and colours are possible on request.



## SABIX® D 305 FRNC Flexible data cable with improved fire performance



SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 FRNC 32 x 0,5

Marking for SABIX D 305 FRNC 63053250:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 FRNC 32 x 0,5 mm<sup>2</sup> CE

Construction:	
Conductor:	bare copper strands acc. to DIN VDE 0812
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	in layers
Sheath material:	SABIX®
Sheath colour:	grey (RAL 7032)

Outstanding features:	
]	halogen-free
]	no flame propagation
]	flame retardant and self-extinguishing
]	easy stripping
]	anticapacitance
]	flexible
]	EAC approval

Technical data:	
Peak operating voltage:	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
Testing voltage:	1500 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-40/+85 °C
flexible application:	-30/+85 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63050214	2 x 0,14	3,3	2,7	16
63050314	3 x 0,14	3,5	4,0	18
63050414	4 x 0,14	3,7	5,4	20
63050514	5 x 0,14	3,9	6,7	22
63050714	7 x 0,14	4,3	9,4	28
63050814	8 x 0,14	5,2	10,8	35
63051214	12 x 0,14	5,5	16,1	42
63051414	14 x 0,14	5,7	18,8	47
63051614	16 x 0,14	6,2	21,5	55
63051814	18 x 0,14	6,5	24,2	61
63052114	21 x 0,14	7,1	28,2	72
63052414	24 x 0,14	7,5	32,3	80
63052714	27 x 0,14	8,1	36,3	91
63053014	30 x 0,14	8,3	40,3	97
63053214	32 x 0,14	8,6	43,0	103
63053614	36 x 0,14	8,9	48,4	113
63054014	40 x 0,14	9,5	53,8	123
63054414	44 x 0,14	9,9	59,1	133
63055014	50 x 0,14	10,3	67,2	142
63056114	61 x 0,14	10,9	82,0	165
63050225	2 x 0,25	3,6	4,8	19
63050325	3 x 0,25	3,8	7,2	23
63050425	4 x 0,25	4,1	9,6	26
63050525	5 x 0,25	4,4	12,0	31
63050725	7 x 0,25	4,8	16,8	38
63050825	8 x 0,25	5,4	19,2	45
63051225	12 x 0,25	6,3	28,8	61
63051425	14 x 0,25	6,6	33,6	69
63051625	16 x 0,25	6,9	38,4	77

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63051825	18 x 0,25	7,3	43,2	85
63052125	21 x 0,25	8,3	50,4	106
63052425	24 x 0,25	8,4	57,6	110
63052725	27 x 0,25	8,6	64,8	114
63053025	30 x 0,25	8,9	72,0	125
63053225	32 x 0,25	9,2	76,8	132
63053625	36 x 0,25	10,0	86,4	156
63054025	40 x 0,25	10,6	96,0	173
63054425	44 x 0,25	11,1	105,6	184
63055025	50 x 0,25	11,6	120,0	204
63056125	61 x 0,25	12,3	146,4	241
63050234	2 x 0,34	4,2	6,5	26
63050334	3 x 0,34	4,4	9,8	30
63050434	4 x 0,34	4,6	13,1	36
63050534	5 x 0,34	5,2	16,3	43
63050734	7 x 0,34	5,7	22,8	53
63050834	8 x 0,34	6,7	26,1	66
63051234	12 x 0,34	7,5	39,2	85
63051434	14 x 0,34	8,3	45,7	104
63051634	16 x 0,34	8,7	52,2	116
63051834	18 x 0,34	9,2	58,8	128
63052134	21 x 0,34	10,0	68,5	146
63052434	24 x 0,34	10,6	78,3	157
63052734	27 x 0,34	10,8	88,1	172
63053034	30 x 0,34	11,2	97,9	187
63053234	32 x 0,34	11,6	104,4	199
63053634	36 x 0,34	12,1	117,5	220
63054034	40 x 0,34	12,9	130,6	244
63054434	44 x 0,34	13,5	143,6	261

Continued on next page



## SABIX® D 305 FRNC Flexible data cable with improved fire performance

BRÖCKSKES · D-VIERSEN · SABIX D 305 FRNC 32 x 0,5 mm<sup>2</sup> CE



Marking for SABIX D 305 FRNC 63053250:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 FRNC 32 x 0,5 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63055034	50 x 0,34	14,5	163,2	304
63056134	61 x 0,34	15,4	199,1	358
63050250	2 x 0,50	4,5	9,6	31
63050350	3 x 0,50	4,7	14,4	36
63050450	4 x 0,50	5,1	19,2	43
63050550	5 x 0,50	5,6	24,0	51
63050750	7 x 0,50	6,3	33,6	67
63050850	8 x 0,50	7,3	38,4	82
63051250	12 x 0,50	8,5	57,6	113
63051450	14 x 0,50	8,9	67,2	127
63051650	16 x 0,50	9,4	76,8	142
63051850	18 x 0,50	9,9	86,4	157
63052150	21 x 0,50	10,9	100,8	180
63052450	24 x 0,50	11,5	115,2	195
63052750	27 x 0,50	11,7	129,6	213
63053050	30 x 0,50	12,1	144,0	232
63053250	32 x 0,50	12,6	153,6	248
63053650	36 x 0,50	13,1	172,8	274
63054450	44 x 0,50	15,1	211,2	341
63055050	50 x 0,50	15,7	240,0	411
63056150	61 x 0,50	16,7	292,8	448
63050275	2 x 0,75	5,1	14,4	41
63050375	3 x 0,75	5,4	21,6	49
63050475	4 x 0,75	6,1	28,8	62
63050575	5 x 0,75	6,6	36,0	73
63050775	7 x 0,75	7,2	50,4	91
63050875	8 x 0,75	8,7	57,6	119

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63051275	12 x 0,75	9,8	86,4	153
63051475	14 x 0,75	10,3	100,8	170
63051675	16 x 0,75	10,8	115,2	192
63051875	18 x 0,75	11,4	129,6	213
63052175	21 x 0,75	12,5	151,2	248
63052475	24 x 0,75	13,3	172,8	270
63052775	27 x 0,75	13,6	194,4	297
63053075	30 x 0,75	14,5	216,0	339
63053275	32 x 0,75	15,0	230,4	360
63053675	36 x 0,75	15,6	259,2	399
63054075	40 x 0,75	16,7	288,0	443
63054475	44 x 0,75	17,5	316,8	475
63055075	50 x 0,75	18,3	360,0	530
63056175	61 x 0,75	19,8	439,2	648
63050280	2 x 1,00	5,3	19,2	47
63050380	3 x 1,00	5,6	28,8	56
63050480	4 x 1,00	6,3	38,4	71
63050580	5 x 1,00	6,9	48,0	86
63050680	6 x 1,00	7,5	57,6	100
63050780	7 x 1,00	7,9	67,2	116
63050285	2 x 1,50	6,1	28,8	64
63050385	3 x 1,50	6,4	43,2	77
63050485	4 x 1,50	7,0	57,6	94
63050585	5 x 1,50	8,1	72,0	122
63050685	6 x 1,50	8,8	86,4	142
63050785	7 x 1,50	8,8	100,8	153

Other dimensions and colours are possible on request.



## SABIX® D 315 S Flexible data cable with overall copper screen



Marking for SABIX A D 315 S 83150550:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 S 5 x 0,5 mm² CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to DIN VDE 0812
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- ▮ halogen-free
- ▮ good EMC characteristics\*
- ▮ no flame propagation
- ▮ flame retardant and self-extinguishing
- ▮ EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-30/+70 °C
flexible application:	-20/+70 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

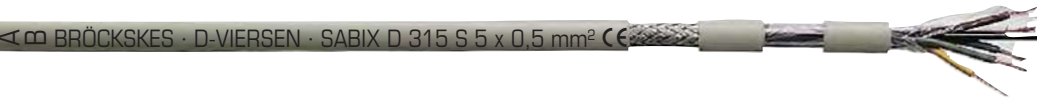
item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83150214	2 x 0,14	3,6	12,6	18
83150314	3 x 0,14	3,8	14,1	21
83150414	4 x 0,14	4,0	15,9	25
83150514	5 x 0,14	4,3	19,5	30
83150714	7 x 0,14	4,6	24,0	34
83150814	8 x 0,14	5,4	26,0	45
83151014	10 x 0,14	5,8	29,0	49
83151214	12 x 0,14	6,2	32,0	57
83151414	14 x 0,14	6,4	35,0	63
83151614	16 x 0,14	6,7	49,0	71
83151814	18 x 0,14	7,0	54,0	77
83152114	21 x 0,14	7,6	60,0	90
83152414	24 x 0,14	8,0	74,0	95
83152514	25 x 0,14	8,6	78,0	106
83152714	27 x 0,14	8,6	85,0	110
83153014	30 x 0,14	8,8	98,0	119
83153214	32 x 0,14	9,1	108,0	126
83153614	36 x 0,14	9,4	117,0	137
83154014	40 x 0,14	10,0	126,0	152
83154414	44 x 0,14	10,6	138,0	173
83155014	50 x 0,14	11,0	150,0	188
83155214	52 x 0,14	11,0	155,0	192
83156114	61 x 0,14	11,6	176,0	219
83150225	2 x 0,25	3,9	15,0	23
83150325	3 x 0,25	4,1	18,0	27
83150425	4 x 0,25	4,4	22,0	32
83150525	5 x 0,25	4,9	25,0	40
83150625	6 x 0,25	5,3	30,0	46
83150725	7 x 0,25	5,3	32,0	48
83150825	8 x 0,25	6,1	35,0	61

item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83151025	10 x 0,25	6,6	42,0	67
83151225	12 x 0,25	6,8	50,0	75
83151425	14 x 0,25	7,1	64,0	83
83151625	16 x 0,25	7,4	71,0	94
83151825	18 x 0,25	7,8	80,0	104
83152125	21 x 0,25	8,8	105,0	129
83152425	24 x 0,25	9,3	115,0	137
83152525	25 x 0,25	9,5	117,0	143
83152725	27 x 0,25	9,5	120,0	150
83153025	30 x 0,25	9,8	132,0	161
83153225	32 x 0,25	10,1	138,0	171
83153625	36 x 0,25	10,7	152,0	200
83154025	40 x 0,25	11,3	164,0	223
83154425	44 x 0,25	11,8	180,0	235
83155025	50 x 0,25	12,7	222,0	270
83155225	52 x 0,25	12,7	234,0	276
83156125	61 x 0,25	13,4	287,0	314
83150234	2 x 0,34	4,5	17,0	30
83150334	3 x 0,34	4,9	21,0	37
83150434	4 x 0,34	5,3	25,0	44
83150534	5 x 0,34	5,7	30,0	54
83150734	7 x 0,34	6,4	42,0	67
83150834	8 x 0,34	7,2	45,0	84
83151034	10 x 0,34	7,8	63,0	92
83151234	12 x 0,34	8,0	70,0	103
83151434	14 x 0,34	8,8	78,0	125
83151634	16 x 0,34	9,2	87,0	138
83151834	18 x 0,34	9,7	108,0	154
83152134	21 x 0,34	10,7	127,0	190
83152434	24 x 0,34	11,3	140,0	206

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with improved fire performance

## SABIX® D 315 S Flexible data cable with overall copper screen



Marking for SABIX A D 315 S 83150550:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 S 5 x 0,5 mm² CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83152734	27 x 0,34	11,5	151,0	222
83153034	30 x 0,34	11,9	162,0	239
83153234	32 x 0,34	12,7	171,0	265
83153834	36 x 0,34	13,2	188,0	293
83154034	40 x 0,34	14,0	208,0	325
83154434	44 x 0,34	14,6	223,0	343
83155034	50 x 0,34	15,8	248,0	414
83155234	52 x 0,34	15,8	273,0	424
83156134	61 x 0,34	16,7	316,0	476
83150250	2 x 0,50	5,0	18,9	37
83150350	3 x 0,50	5,2	23,7	43
83150450	4 x 0,50	5,6	29,8	52
83150550	5 x 0,50	6,3	35,7	66
83150750	7 x 0,50	6,8	46,6	80
83150850	8 x 0,50	7,8	54,2	102
83151050	10 x 0,50	8,8	65,7	118
83151250	12 x 0,50	9,0	75,3	132
83151450	14 x 0,50	9,4	84,7	147
83151650	16 x 0,50	9,9	96,2	166
83151850	18 x 0,50	10,6	118,1	196
83152150	21 x 0,50	11,6	136,9	230
83152450	24 x 0,50	12,6	151,5	255
83152750	27 x 0,50	12,8	166,0	276
83153050	30 x 0,50	13,2	183,7	301
83153250	32 x 0,50	13,7	193,5	319
83153650	36 x 0,50	14,2	216,9	353
83154450	44 x 0,50	16,4	276,6	449
83155050	50 x 0,50	17,0	313,1	500
83156150	61 x 0,50	18,0	366,8	579

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
83150275	2 x 0,75	5,6	25,0	46
83150375	3 x 0,75	6,1	32,3	58
83150475	4 x 0,75	6,6	40,6	70
83150575	5 x 0,75	7,1	49,1	85
83150775	7 x 0,75	7,7	66,1	106
83150875	8 x 0,75	9,2	75,1	141
83151075	10 x 0,75	10,0	91,4	154
83151275	12 x 0,75	10,5	118,1	187
83151475	14 x 0,75	11,0	132,6	208
83151675	16 x 0,75	11,5	151,2	236
83151875	18 x 0,75	12,4	165,9	271
83152175	21 x 0,75	13,6	191,1	315
83152475	24 x 0,75	14,4	217,0	341
83152775	27 x 0,75	14,7	238,8	372
83153075	30 x 0,75	15,8	280,9	439
83153275	32 x 0,75	16,3	295,7	460
83153675	36 x 0,75	16,9	324,9	504
83150280	2 x 1,00	5,8	29,9	52
83150380	3 x 1,00	6,3	40,5	66
83150480	4 x 1,00	6,8	51,4	81
83150580	5 x 1,00	7,4	62,4	99
83150680	6 x 1,00	8,0	73,4	116
83150780	7 x 1,00	8,0	83,0	123
83150285	2 x 1,50	6,5	40,6	70
83150385	3 x 1,50	6,8	56,2	81
83150485	4 x 1,50	7,4	72,0	101
83150585	5 x 1,50	8,6	87,8	135
83150685	6 x 1,50	9,3	103,9	159
83150785	7 x 1,50	9,3	118,3	168

Other dimensions and colours are possible on request.





## SABIX® D 315 FRNC Flexible data cable with improved fire performance and overall copper screen



Marking for SABIX D 315 FRNC 63150750:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 FRNC 7 x 0,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to DIN VDE 0812
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- ▮ halogen-free
- ▮ good EMC characteristics\*
- ▮ no flame propagation
- ▮ flame retardant and self-extinguishing
- ▮ EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

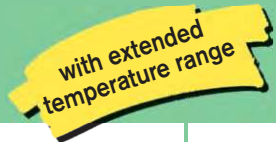
### Technical data:

<b>Peak operating voltage:</b>	< 0.25 mm² = max. 350 V ≥ 0.25 mm² = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+85 °C
flexible application:	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63150214	2 x 0,14	3,8	13,0	23
63150314	3 x 0,14	4,0	14,4	25
63150414	4 x 0,14	4,2	15,8	27
63150514	5 x 0,14	4,5	20,6	33
63150714	7 x 0,14	4,8	23,4	38
63150814	8 x 0,14	5,6	24,9	46
63151014	10 x 0,14	6,0	29,5	51
63151214	12 x 0,14	6,6	33,7	64
63151414	14 x 0,14	6,8	36,5	69
63151614	16 x 0,14	7,1	41,1	76
63151814	18 x 0,14	7,4	43,9	82
63152114	21 x 0,14	8,0	51,9	84
63152414	24 x 0,14	8,0	74,0	89
63152714	27 x 0,14	8,6	85,0	104
63153014	30 x 0,14	8,8	98,0	112
63153214	32 x 0,14	9,1	108,0	118
63153614	36 x 0,14	9,4	117,0	128
63154014	40 x 0,14	10,0	126,0	141
63154414	44 x 0,14	10,6	138,0	162
63155014	50 x 0,14	11,0	150,0	175
63155214	52 x 0,14	11,0	155,0	179
63156114	61 x 0,14	11,6	176,0	203
63150225	2 x 0,25	4,1	15,2	26
63150325	3 x 0,25	4,3	17,6	29
63150425	4 x 0,25	4,6	23,5	33
63150525	5 x 0,25	5,1	26,0	43
63150725	7 x 0,25	5,5	30,9	50
63150825	8 x 0,25	6,5	35,3	66
63151025	10 x 0,25	7,0	43,5	74

item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63151225	12 x 0,25	7,2	48,4	81
63151425	14 x 0,25	7,5	53,4	89
63151625	16 x 0,25	7,8	59,8	98
63151825	18 x 0,25	8,2	66,9	108
63152125	21 x 0,25	8,8	76,6	122
63152425	24 x 0,25	9,3	115,0	130
63152725	27 x 0,25	9,5	120,0	142
63153025	30 x 0,25	9,8	132,0	152
63153225	32 x 0,25	10,1	138,0	161
63153625	36 x 0,25	10,7	152,0	189
63154025	40 x 0,25	11,3	164,0	209
63154425	44 x 0,25	11,8	180,0	221
63155025	50 x 0,25	12,7	222,0	254
63155225	52 x 0,25	12,7	234,0	260
63156125	61 x 0,25	13,4	287,0	295
63150234	2 x 0,34	4,7	20,4	34
63150334	3 x 0,34	5,1	23,8	41
63150434	4 x 0,34	5,5	27,2	47
63150534	5 x 0,34	5,9	32,3	55
63150734	7 x 0,34	6,8	40,5	73
63150834	8 x 0,34	7,6	47,7	87
63151034	10 x 0,34	8,2	56,3	97
63151234	12 x 0,34	8,4	62,9	107
63151434	14 x 0,34	8,8	78,0	118
63151634	16 x 0,34	9,2	87,0	129
63151834	18 x 0,34	9,7	108,0	144
63152134	21 x 0,34	10,7	127,0	177
63152434	24 x 0,34	11,3	140,0	193
63152734	27 x 0,34	11,5	151,0	207

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## SABIX® D 315 FRNC Flexible data cable with improved fire performance and overall copper screen

BRÖCKSKES · D-VIERSEN · SABIX D 315 FRNC 7 x 0,5 mm<sup>2</sup> CE



Marking for SABIX D 315 FRNC 63150750:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 315 FRNC 7 x 0,5 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63153034	30 x 0,34	11,9	162,0	222	63150275	2 x 0,75	5,8	30,4	50
63153234	32 x 0,34	12,7	171,0	247	63150375	3 x 0,75	6,5	37,7	65
63153634	36 x 0,34	13,2	188,0	272	63150475	4 x 0,75	7,0	48,3	78
63154034	40 x 0,34	14,0	208,0	301	63150575	5 x 0,75	7,5	55,8	90
63154434	44 x 0,34	14,6	223,0	319	63150775	7 x 0,75	8,1	74,1	111
63155034	50 x 0,34	15,8	248,0	386	63150875	8 x 0,75	9,2	83,8	132
63155234	52 x 0,34	15,8	273,0	395	63151275	12 x 0,75	10,5	133,9	179
63156134	61 x 0,34	16,7	316,0	366	63151475	14 x 0,75	11,0	148,5	198
63150250	2 x 0,50	5,2	23,6	41	63151675	16 x 0,75	11,5	169,2	224
63150350	3 x 0,50	5,4	28,5	46	63151875	18 x 0,75	12,4	184,0	257
63150450	4 x 0,50	5,8	35,2	54	63152175	21 x 0,75	13,6	211,0	297
63150550	5 x 0,50	6,7	41,7	71	63152475	24 x 0,75	14,4	239,1	324
63150750	7 x 0,50	7,2	53,2	85	63152775	27 x 0,75	14,7	260,9	352
63150850	8 x 0,50	8,2	62,1	103	63153075	30 x 0,75	15,8	313,4	417
63151050	10 x 0,50	8,8	74,5	113	63153275	32 x 0,75	16,3	328,3	440
63151250	12 x 0,50	9,0	84,2	126	63153675	36 x 0,75	16,9	357,8	479
63151450	14 x 0,50	9,4	93,5	139	63150280	2 x 1,00	6,0	35,3	55
63151650	16 x 0,50	9,9	105,9	156	63150380	3 x 1,00	6,7	46,5	73
63151850	18 x 0,50	10,6	133,9	185	63150480	4 x 1,00	7,2	58,0	87
63152150	21 x 0,50	11,6	154,9	220	63150580	5 x 1,00	7,8	69,4	103
63152450	24 x 0,50	12,6	169,7	241	63150680	6 x 1,00	8,4	81,4	119
63152750	27 x 0,50	12,8	184,2	260	63150780	7 x 1,00	8,4	91,0	127
63153050	30 x 0,50	13,2	203,6	283	63150285	2 x 1,50	7,0	48,3	77
63153250	32 x 0,50	13,7	213,5	299	63150385	3 x 1,50	7,3	62,9	90
63153650	36 x 0,50	14,2	239,0	330	63150485	4 x 1,50	7,9	71,1	109
63154450	44 x 0,50	16,4	309,2	422	63150585	5 x 1,50	8,6	95,8	130
63155050	50 x 0,50	17,0	349,7	469	63150685	6 x 1,50	9,3	112,7	152
63156150	61 x 0,50	18,0	403,7	540	63150785	7 x 1,50	9,3	127,1	162

Other dimensions and colours are possible on request.

## SABIX® D 320 FRNC C1

Flexible data cable with improved fire performance, overall copper screen and extended temperature range



D-VIERSEN · SABIX D 320 FRNC C1 7 x 0,14 mm<sup>2</sup> C1

Marking for SABIX D 320 FRNC C1 63200714:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 320 FRNC C1 7 x 0,14 mm<sup>2</sup> C1

### Construction:

<b>Conductor:</b>	bare copper strands acc. to DIN VDE 0812
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- ] halogen-free
- ] good EMC characteristics\*
- ] no flame propagation
- ] flame retardant and self-extinguishing
- ] NF C32-070 C1
- ] EAC approval

\*Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
fixed laying:	-30/+90 °C
flexible application:	-20/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63200214	2 x 0,14	4,0	13,0	24
63200314	3 x 0,14	4,2	14,4	26
63200414	4 x 0,14	4,4	15,8	29
63200514	5 x 0,14	4,7	20,6	35
63200614	6 x 0,14	5,0	22,0	39
63200714	7 x 0,14	5,0	23,4	40
63200814	8 x 0,14	5,6	26,7	47
63201014	10 x 0,14	6,0	29,5	52
63201214	12 x 0,14	6,2	33,7	58
63201414	14 x 0,14	6,4	36,5	63
63201614	16 x 0,14	6,7	41,1	70
63201814	18 x 0,14	7,0	43,9	76
63202014	20 x 0,14	7,3	48,3	83
63202114	21 x 0,14	7,6	51,9	88
63202414	24 x 0,14	8,0	56,0	94
63202514	25 x 0,14	8,6	57,4	105
63202714	27 x 0,14	8,6	60,1	110
63203014	30 x 0,14	8,8	66,5	119
63203214	32 x 0,14	9,1	69,3	125
63203614	36 x 0,14	9,4	74,7	135
63204014	40 x 0,14	10,0	83,0	150
63204414	44 x 0,14	10,6	106,8	171
63204814	48 x 0,14	10,8	112,3	181
63205014	50 x 0,14	11,0	121,1	190
63205214	52 x 0,14	11,0	123,8	194
63205614	56 x 0,14	11,3	129,4	205
63206114	61 x 0,14	11,6	136,3	217
63200125	1 x 0,25	3,2	9,3	17
63200225	2 x 0,25	4,3	15,2	27

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63200325	3 x 0,25	4,5	17,6	31
63200425	4 x 0,25	4,8	23,5	37
63200525	5 x 0,25	5,1	26,0	42
63200625	6 x 0,25	5,5	28,5	45
63200725	7 x 0,25	5,5	30,9	50
63200825	8 x 0,25	6,1	35,3	59
63200925	9 x 0,25	6,5	39,3	65
63201025	10 x 0,25	6,6	43,5	67
63201225	12 x 0,25	6,8	48,4	75
63201425	14 x 0,25	7,1	53,4	83
63201525	15 x 0,25	7,4	57,4	90
63201625	16 x 0,25	7,4	59,8	92
63201825	18 x 0,25	7,8	66,9	102
63202025	20 x 0,25	8,5	71,8	118
63202125	21 x 0,25	8,8	76,6	125
63202425	24 x 0,25	9,1	83,9	131
63202525	25 x 0,25	9,5	89,0	140
63202725	27 x 0,25	9,5	93,8	148
63203025	30 x 0,25	9,8	101,1	159
63203225	32 x 0,25	10,1	106,0	167
63203625	36 x 0,25	10,7	134,1	196
63204025	40 x 0,25	11,3	150,1	217
63204425	44 x 0,25	11,8	160,0	231
63204825	48 x 0,25	12,4	169,8	257
63205025	50 x 0,25	12,7	179,5	267
63205225	52 x 0,25	12,7	184,3	275
63205625	56 x 0,25	13,0	194,1	291
63206125	61 x 0,25	13,4	206,3	310

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## SABIX® D 320 FRNC C1 Flexible data cable with improved fire performance, overall copper screen and extended temperature range

D-VIERSEN · SABIX D 320 FRNC C1 7 x 0,14 mm² CE



Marking for SABIX D 320 FRNC C1 63200714:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 320 FRNC C1 7 x 0,14 mm² CE

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item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
63200234	2 x 0,34	4,9	20,4	34	63202550	25 x 0,50	12,8	179,6	262
63200334	3 x 0,34	5,1	23,8	40	63202750	27 x 0,50	12,8	189,2	275
63200434	4 x 0,34	5,5	27,2	47	63203050	30 x 0,50	13,2	203,8	296
63200534	5 x 0,34	5,9	32,3	55	63203250	32 x 0,50	13,9	239,2	331
63200634	6 x 0,34	6,4	37,3	64	63203650	36 x 0,50	14,4	258,8	360
63200734	7 x 0,34	6,4	40,5	67	63204050	40 x 0,50	15,8	289,8	415
63200834	8 x 0,34	7,2	47,4	81	63204250	42 x 0,50	15,8	299,4	427
63201034	10 x 0,34	7,8	56,3	91	63205050	50 x 0,50	17,0	350,2	491
63201234	12 x 0,34	8,0	62,9	101	63205250	52 x 0,50	17,0	359,8	503
63201434	14 x 0,34	8,8	71,9	123	63206150	61 x 0,50	18,0	404,3	568
63201634	16 x 0,34	9,2	78,5	135	63200175	1 x 0,75	3,9	17,5	28
63201834	18 x 0,34	9,7	87,8	150	63200275	2 x 0,75	5,8	30,4	49
63202034	20 x 0,34	10,1	94,5	162	63200375	3 x 0,75	6,1	37,7	58
63202134	21 x 0,34	10,7	116,3	183	63200475	4 x 0,75	6,6	48,3	71
63202434	24 x 0,34	11,3	132,4	202	63200575	5 x 0,75	7,1	55,8	83
63202734	27 x 0,34	11,5	142,3	217	63200675	6 x 0,75	7,7	66,9	98
63203034	30 x 0,34	11,9	152,4	234	63200775	7 x 0,75	7,7	74,1	105
63203234	32 x 0,34	12,7	164,0	262	63200875	8 x 0,75	9,2	83,9	132
63203634	36 x 0,34	13,2	177,3	286	63201075	10 x 0,75	10,0	101,2	152
63204034	40 x 0,34	14,2	216,4	329	63201275	12 x 0,75	10,5	134,0	184
63204234	42 x 0,34	14,2	223,0	339	63201475	14 x 0,75	11,0	154,7	209
63204434	44 x 0,34	14,8	240,8	357	63201675	16 x 0,75	11,5	169,4	231
63204834	48 x 0,34	15,0	254,1	378	63201875	18 x 0,75	12,5	184,2	265
63205034	50 x 0,34	15,8	261,0	405	63202175	21 x 0,75	13,8	236,7	322
63205234	52 x 0,34	15,8	267,6	415	63202475	24 x 0,75	14,6	269,8	357
63205634	56 x 0,34	16,2	281,0	439	63202775	27 x 0,75	14,9	291,7	386
63206134	61 x 0,34	16,7	308,9	474	63203075	30 x 0,75	15,8	313,8	431
63200150	1 x 0,50	3,6	11,9	22	63203275	32 x 0,75	16,3	328,8	454
63200250	2 x 0,50	5,2	23,6	40	63203675	36 x 0,75	16,9	369,2	500
63200350	3 x 0,50	5,4	28,5	45	63200180	1 x 1,00	4,0	19,9	30
63200450	4 x 0,50	5,8	35,2	54	63200280	2 x 1,00	6,0	35,3	55
63200550	5 x 0,50	6,3	41,7	65	63200380	3 x 1,00	6,3	46,5	66
63200650	6 x 0,50	6,8	48,4	75	63200480	4 x 1,00	6,8	58,0	80
63200750	7 x 0,50	6,8	53,2	79	63200580	5 x 1,00	7,4	69,4	96
63200850	8 x 0,50	7,8	62,1	96	63200680	6 x 1,00	8,0	81,4	112
63201050	10 x 0,50	8,8	74,2	117	63200780	7 x 1,00	8,0	91,0	121
63201250	12 x 0,50	9,0	83,8	130	63200185	1 x 1,50	4,3	24,8	36
63201450	14 x 0,50	9,4	96,2	147	63200285	2 x 1,50	6,6	48,3	68
63201650	16 x 0,50	9,9	106,0	163	63200385	3 x 1,50	6,9	62,9	82
63201850	18 x 0,50	10,6	134,1	192	63200485	4 x 1,50	7,5	79,1	101
63202050	20 x 0,50	11,1	150,0	212	63200585	5 x 1,50	8,6	95,8	131
63202150	21 x 0,50	11,6	155,1	221	63200685	6 x 1,50	9,3	112,7	152
63202450	24 x 0,50	12,6	174,7	255	63200785	7 x 1,50	9,3	127,1	165

Other dimensions and colours are possible on request.



## SABIX® D 345 S TP Paired data cable with overall copper screen



Marking for SABIX D 345 S TP 83450325:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 345 S TP 3 x 2 x 0,25 mm<sup>2</sup> CE

Construction:	
Conductor:	bare copper strands acc. to DIN VDE 0812
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	SABIX®
Sheath colour:	grey (RAL 7032)

Outstanding features:	
]	halogen-free
]	no flame propagation
]	good EMC characteristics*
]	flame retardant and self-extinguishing
]	good transmission rates and crosstalk attenuation
]	EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:	
Peak operating voltage:	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-30/+70 °C
flexible application:	-20/+70 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
83450214	2 x 2 x 0,14	5,2	19,1	35
83450314	3 x 2 x 0,14	5,7	23,4	43
83450414	4 x 2 x 0,14	6,5	27,8	52
83450514	5 x 2 x 0,14	7,0	32,0	60
83450614	6 x 2 x 0,14	7,2	36,2	67
83450814	8 x 2 x 0,14	7,8	43,4	78
83451014	10 x 2 x 0,14	8,9	50,6	99
83451214	12 x 2 x 0,14	9,7	58,2	113
83451614	16 x 2 x 0,14	10,5	71,4	138
83451814	18 x 2 x 0,14	11,1	92,8	164
83452414	24 x 2 x 0,14	12,8	114,8	209
83450225	2 x 2 x 0,25	5,7	24,9	43
83450325	3 x 2 x 0,25	6,4	31,4	57
83450425	4 x 2 x 0,25	7,2	39,3	67
83450525	5 x 2 x 0,25	7,7	45,8	77
83450625	6 x 2 x 0,25	7,9	50,7	85
83450825	8 x 2 x 0,25	9,0	62,1	110
83451025	10 x 2 x 0,25	9,8	74,0	129
83451225	12 x 2 x 0,25	10,9	101,9	162
83451625	16 x 2 x 0,25	11,9	126,8	200
83451825	18 x 2 x 0,25	12,7	136,6	229
83452425	24 x 2 x 0,25	14,2	170,3	278
83450234	2 x 2 x 0,34	6,8	31,5	59
83450334	3 x 2 x 0,34	7,4	39,8	74
83450434	4 x 2 x 0,34	8,8	49,8	95
83450534	5 x 2 x 0,34	9,5	58,5	111
83450634	6 x 2 x 0,34	9,7	65,1	128

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
83450834	8 x 2 x 0,34	10,6	80,7	146
83451234	12 x 2 x 0,34	13,4	133,1	230
83451634	16 x 2 x 0,34	14,6	165,0	287
83451834	18 x 2 x 0,34	15,1	178,4	311
83452434	24 x 2 x 0,34	17,6	255,1	424
83450250	2 x 2 x 0,50	7,2	39,3	68
83450350	3 x 2 x 0,50	7,9	50,1	86
83450450	4 x 2 x 0,50	9,4	64,6	111
83450550	5 x 2 x 0,50	10,2	76,4	131
83450650	6 x 2 x 0,50	10,4	86,0	145
83450750	7 x 2 x 0,50	10,9	111,5	167
83450850	8 x 2 x 0,50	11,6	126,6	192
83451050	10 x 2 x 0,50	13,2	146,5	236
83451250	12 x 2 x 0,50	14,4	175,7	276
83451650	16 x 2 x 0,50	16,3	241,3	358
83451850	18 x 2 x 0,50	16,9	261,0	411
83452450	24 x 2 x 0,50	19,0	330,4	479
83450275	2 x 2 x 0,75	8,5	52,4	95
83450375	3 x 2 x 0,75	9,4	69,4	119
83450475	4 x 2 x 0,75	10,9	101,9	155
83450575	5 x 2 x 0,75	11,7	121,9	188
83450675	6 x 2 x 0,75	12,5	136,5	224
83450875	8 x 2 x 0,75	13,7	170,1	262
83451275	12 x 2 x 0,75	17,1	261,2	395
83451675	16 x 2 x 0,75	18,6	329,9	493
83451875	18 x 2 x 0,75	19,3	369,3	545
83452475	24 x 2 x 0,75	21,8	469,2	676

Other dimensions and colours are possible on request.



## SABIX® D 345 FRNC TP Paired data cable with improved fire performance and overall copper screen



Marking for SABIX D 345 FRNC TP 63450325:  
SAB BRÖCKSKES · D-VIERSEN · SABIX D 345 FRNC TP 3 x 2 x 0,25 mm² CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to DIN VDE 0812
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	pairwise, pairs in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 good EMC characteristics\*
- 】 flame retardant and self-extinguishing
- 】 good transmission rates and crosstalk attenuation
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+85 °C
flexible application:	-30/+85 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of pairs x cross section n x 2 x mm²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
63450214	2 x 2 x 0,14	5,4	20,8	40
63450314	3 x 2 x 0,14	5,9	23,7	47
63450414	4 x 2 x 0,14	6,9	28,1	62
63450514	5 x 2 x 0,14	7,4	33,8	70
63450614	6 x 2 x 0,14	7,6	36,6	75
63450814	8 x 2 x 0,14	8,2	43,5	86
63451014	10 x 2 x 0,14	8,9	50,6	100
63451214	12 x 2 x 0,14	9,7	58,2	115
63451614	16 x 2 x 0,14	10,5	71,4	140
63451814	18 x 2 x 0,14	11,1	92,8	166
63452414	24 x 2 x 0,14	12,8	114,8	212
63450225	2 x 2 x 0,25	5,9	25,2	47
63450325	3 x 2 x 0,25	6,8	31,7	65
63450425	4 x 2 x 0,25	7,6	39,6	73
63450525	5 x 2 x 0,25	8,1	45,9	88
63450625	6 x 2 x 0,25	8,3	50,8	94
63450825	8 x 2 x 0,25	9,0	62,1	113
63451025	10 x 2 x 0,25	9,8	73,9	131
63451225	12 x 2 x 0,25	10,9	101,9	165
63451625	16 x 2 x 0,25	11,9	126,8	203
63451825	18 x 2 x 0,25	12,7	136,6	233
63452425	24 x 2 x 0,25	14,2	170,3	282
63450234	2 x 2 x 0,34	7,2	31,8	68
63450334	3 x 2 x 0,34	7,8	40,1	84
63450434	4 x 2 x 0,34	8,8	49,8	97
63450534	5 x 2 x 0,34	9,5	58,5	115
63450634	6 x 2 x 0,34	9,7	65,1	131

item no.	no. of pairs x cross section n x 2 x mm²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
63450834	8 x 2 x 0,34	10,6	80,7	156
63451234	12 x 2 x 0,34	13,4	133,1	225
63451634	16 x 2 x 0,34	14,6	165,0	288
63451834	18 x 2 x 0,34	15,1	178,3	317
63452434	24 x 2 x 0,34	17,6	255,1	406
63450250	2 x 2 x 0,50	7,6	39,6	78
63450350	3 x 2 x 0,50	8,3	50,8	94
63450450	4 x 2 x 0,50	9,4	64,6	116
63450550	5 x 2 x 0,50	10,2	76,3	130
63450650	6 x 2 x 0,50	10,4	86,0	154
63450850	8 x 2 x 0,50	11,4	126,6	185
63451050	10 x 2 x 0,50	13,2	146,5	232
63451250	12 x 2 x 0,50	14,4	175,6	281
63451650	16 x 2 x 0,50	16,3	241,3	363
63451850	18 x 2 x 0,50	16,9	261,0	392
63452450	24 x 2 x 0,50	19,0	330,4	488
63450275	2 x 2 x 0,75	8,5	52,4	98
63450375	3 x 2 x 0,75	9,4	69,4	122
63450475	4 x 2 x 0,75	10,9	101,9	159
63450575	5 x 2 x 0,75	11,7	131,9	181
63450675	6 x 2 x 0,75	12,5	136,5	215
63450875	8 x 2 x 0,75	13,7	170,1	300
63451275	12 x 2 x 0,75	17,1	261,2	391
63451675	16 x 2 x 0,75	18,6	329,9	473
63451875	18 x 2 x 0,75	19,3	369,3	520
63452475	24 x 2 x 0,75	21,8	469,2	644

Other dimensions and colours are possible on request.

## SABIX® R 600 FRNC SABIX® Rail Control with numbered cores



Marking for SABIX R 600 FRNC 66001215:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 600 FRNC 12 x 1,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- )] halogen-free
- )] no flame propagation
- )] flame retardant and self-extinguishing
- )] fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- )] EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17



**Especially for use in rail vehicles**

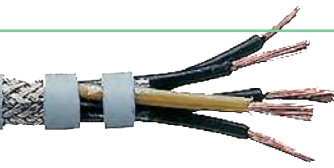
Tested at reference types.

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66000205	2 x 0,50	0,21	4,8	9,6	33	66000415	4 x 1,50	0,26	7,6	57,6	99
66000305	3 x 0,50	0,21	5,1	14,4	38	66000515	5 x 1,50	0,26	8,3	72,0	124
66000405	4 x 0,50	0,21	5,5	19,2	46	66000715	7 x 1,50	0,26	9,2	100,8	170
66000505	5 x 0,50	0,21	6,2	24,0	57	66001015	10 x 1,50	0,26	12,0	144,0	229
66000705	7 x 0,50	0,21	6,7	33,6	69	66001215	12 x 1,50	0,26	12,4	172,8	263
66001005	10 x 0,50	0,21	8,6	48,0	96	66001815	18 x 1,50	0,26	14,8	259,2	289
66001205	12 x 0,50	0,21	9,1	57,6	110	66002515	25 x 1,50	0,26	18,0	360,0	537
66001805	18 x 0,50	0,21	10,7	86,4	169	66003215	32 x 1,50	0,26	19,5	460,8	661
66002505	25 x 0,50	0,21	12,9	120,0	221	66004215	42 x 1,50	0,26	22,0	604,8	867
66003205	32 x 0,50	0,21	14,0	153,6	287	66006115	61 x 1,50	0,26	25,8	878,4	1217
66004205	42 x 0,50	0,21	15,7	201,6	365	66000225	2 x 2,50	0,26	7,8	48,0	105
66006105	61 x 0,50	0,21	18,5	292,8	510	66000325	3 x 2,50	0,26	8,9	72,0	127
66000207	2 x 0,75	0,21	5,4	14,4	44	66000425	4 x 2,50	0,26	9,2	96,0	155
66000307	3 x 0,75	0,21	5,7	21,6	51	66000525	5 x 2,50	0,26	10,1	120,0	199
66000407	4 x 0,75	0,21	6,4	28,8	63	66000725	7 x 2,50	0,26	11,2	168,0	252
66000507	5 x 0,75	0,21	7,0	36,0	77	66001025	10 x 2,50	0,26	14,8	240,0	362
66000707	7 x 0,75	0,21	7,8	50,4	96	66001225	12 x 2,50	0,26	15,3	288,0	416
66001007	10 x 0,75	0,21	10,0	72,0	144	66001825	18 x 2,50	0,26	18,2	432,0	615
66001207	12 x 0,75	0,21	10,5	86,4	163	66002525	25 x 2,50	0,26	22,3	600,0	837
66001807	18 x 0,75	0,21	12,4	129,6	230	66000340	3 x 4,00	0,31	9,7	115,2	185
66002507	25 x 0,75	0,21	15,1	180,0	316	66000440	4 x 4,00	0,31	10,8	153,6	234
66003207	32 x 0,75	0,21	16,4	230,4	388	66000540	5 x 4,00	0,31	12,1	192,0	290
66004207	42 x 0,75	0,21	18,4	302,4	515	66000740	7 x 4,00	0,31	13,4	268,8	375
66006107	61 x 0,75	0,21	21,6	439,2	721	66000360	3 x 6,00	0,31	11,4	172,8	270
66000210	2 x 1,00	0,21	5,6	19,2	50	66000460	4 x 6,00	0,31	12,7	230,4	336
66000310	3 x 1,00	0,21	6,1	28,8	62	66000560	5 x 6,00	0,31	14,2	288,0	415
66000410	4 x 1,00	0,21	6,6	38,4	76	66000760	7 x 6,00	0,31	15,7	403,2	545
66000510	5 x 1,00	0,21	7,5	48,0	94	66000461	4 x 10,0	0,41	16,7	384,0	579
66000710	7 x 1,00	0,21	8,1	67,2	117	66000561	5 x 10,0	0,41	18,6	480,0	740
66001010	10 x 1,00	0,21	10,6	96,0	172	66000761	7 x 10,0	0,41	20,7	672,0	960
66001210	12 x 1,00	0,21	10,9	115,2	196	66000462	4 x 16,0	0,41	20,6	614,4	887
66001810	18 x 1,00	0,21	12,9	172,8	280	66000562	5 x 16,0	0,41	23,0	768,0	1105
66002510	25 x 1,00	0,21	15,7	240,0	381	66000762	7 x 16,0	0,41	25,5	1075,2	1445
66003210	32 x 1,00	0,21	17,1	307,2	486	66000463	4 x 25,0	0,41	24,9	960,0	1388
66004210	42 x 1,00	0,21	19,4	403,2	616	66000563	5 x 25,0	0,41	28,1	1200,0	1750
66006110	61 x 1,00	0,21	22,7	585,6	873	66000464	4 x 35,0	0,41	28,8	1344,0	1927
66000215	2 x 1,50	0,26	6,4	28,8	69	66000564	5 x 35,0	0,41	32,5	1680,0	2413
66000315	3 x 1,50	0,26	6,8	43,2	81						

Other dimensions and colours are possible on request.

## SABIX® R 638 FRNC SABIX® Rail Control with numbered cores and overall copper screen

SKES · D-VIERSEN · SABIX R 638 FRNC 5 x 1,5 mm<sup>2</sup> CE



Marking for SABIX R 638 FRNC 66380515:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 638 FRNC 5 x 1,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

- )] halogen-free
- )] good EMC characteristics\*
- )] no flame propagation
- )] flame retardant and self-extinguishing
- )] fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- )] EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V core/screen 2000 V
<b>Min. bending radius</b> <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b> <i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

Tested at reference types.

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66380205	2 x 0,50	0,21	5,3	25,5	38
66380305	3 x 0,50	0,21	5,6	30,7	45
66380405	4 x 0,50	0,21	6,2	48,0	61
66380505	5 x 0,50	0,21	6,7	55,9	70
66380705	7 x 0,50	0,21	7,2	71,1	81
66381205	12 x 0,50	0,21	9,6	108,1	150
66381805	18 x 0,50	0,21	11,4	143,5	206
66382505	25 x 0,50	0,21	13,8	189,7	272
66380207	2 x 0,75	0,21	6,1	31,1	50
66380307	3 x 0,75	0,21	6,4	50,6	61
66380407	4 x 0,75	0,21	6,9	61,1	73
66380507	5 x 0,75	0,21	7,7	73,7	96
66380707	7 x 0,75	0,21	8,3	90,9	121
66381207	12 x 0,75	0,21	11,2	142,4	193
66381807	18 x 0,75	0,21	13,3	197,9	280
66382507	25 x 0,75	0,21	16,2	284,6	395
66380210	2 x 1,00	0,21	6,3	48,0	56
66380310	3 x 1,00	0,21	6,6	58,2	68
66380410	4 x 1,00	0,21	7,1	75,7	94
66380510	5 x 1,00	0,21	8,0	86,1	110
66380710	7 x 1,00	0,21	8,6	108,2	138
66381210	12 x 1,00	0,21	11,8	172,1	226
66381810	18 x 1,00	0,21	13,8	242,1	315
66382510	25 x 1,00	0,21	16,8	346,5	454

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66380215	2 x 1,50	0,26	6,9	60,7	63
66380315	3 x 1,50	0,26	7,2	80,5	90
66380415	4 x 1,50	0,26	8,1	95,6	110
66380515	5 x 1,50	0,26	9,0	113,2	135
66380715	7 x 1,50	0,26	9,7	151,2	178
66381215	12 x 1,50	0,26	13,9	240,8	300
66381815	18 x 1,50	0,26	15,7	362,3	454
66382515	25 x 1,50	0,26	19,1	492,1	613
66380225	2 x 2,50	0,26	8,3	86,3	100
66380325	3 x 2,50	0,26	9,0	113,0	128
66380425	4 x 2,50	0,26	9,7	146,2	163
66380525	5 x 2,50	0,26	11,0	175,0	215
66380725	7 x 2,50	0,26	12,1	225,1	276
66381225	12 x 2,50	0,26	16,4	392,0	466
66381825	18 x 2,50	0,26	19,3	564,1	666
66382525	25 x 2,50	0,26	23,4	770,1	931
66380440	4 x 4,00	0,31	11,5	210,7	250
66380540	5 x 4,00	0,31	12,8	260,0	309
66380460	4 x 6,00	0,31	13,6	298,4	353
66380560	5 x 6,00	0,31	15,1	358,7	420
66380461	4 x 10,00	0,41	17,8	517,1	616
66380462	4 x 16,00	0,41	21,9	756,0	917

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles



## SABIX® R 605 FRNC SABIX® Rail Data



BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm<sup>2</sup>

Marking for SABIX R 605 FRNC 66053250:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands with reference to IEC 60228, EN 6028, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- › halogen-free
- › no flame propagation
- › flame retardant and self-extinguishing
- › fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- › flame retardant acc. to UN/ECE R118
- › EAC approval

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2. Flame retardant acc. to ISO 6722 (UN/ECE R118)
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

Tested at reference types.

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66050214	2 x 0,14	3,1	2,7	13
66050314	3 x 0,14	3,3	4,0	15
66050414	4 x 0,14	3,5	5,4	18
66050514	5 x 0,14	3,8	6,7	21
66050714	7 x 0,14	4,1	9,4	25
66050814	8 x 0,14	5,0	10,8	32
66051214	12 x 0,14	5,3	16,1	38
66051414	14 x 0,14	5,5	18,8	42
66051614	16 x 0,14	6,0	21,5	51
66051814	18 x 0,14	6,3	24,2	56
66052114	21 x 0,14	6,9	28,2	65
66052414	24 x 0,14	7,3	32,3	70
66052714	27 x 0,14	7,7	36,3	80
66053014	30 x 0,14	7,9	40,3	86
66053214	32 x 0,14	8,2	43,0	92
66053614	36 x 0,14	8,5	48,4	101
66054014	40 x 0,14	9,1	53,8	112
66054414	44 x 0,14	9,5	59,1	119
66055014	50 x 0,14	10,3	67,2	142
66056114	61 x 0,14	10,9	82,0	165
66050225	2 x 0,25	3,4	4,8	17
66050325	3 x 0,25	3,6	7,2	20
66050425	4 x 0,25	3,9	9,6	24
66050525	5 x 0,25	4,2	12,0	29
66050725	7 x 0,25	4,6	16,8	35
66050825	8 x 0,25	5,2	19,2	43
66051225	12 x 0,25	6,1	28,8	57
66051425	14 x 0,25	6,4	33,6	64
66051625	16 x 0,25	6,7	38,4	72

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66051825	18 x 0,25	7,1	43,2	80
66052125	21 x 0,25	7,9	50,4	96
66052425	24 x 0,25	8,4	57,6	104
66052725	27 x 0,25	8,6	64,8	114
66053025	30 x 0,25	8,9	72,0	125
66053225	32 x 0,25	9,2	76,8	132
66053625	36 x 0,25	10,0	86,4	156
66054025	40 x 0,25	10,6	96,0	173
66054425	44 x 0,25	11,1	105,6	184
66055025	50 x 0,25	11,6	120,0	204
66056125	61 x 0,25	12,3	146,4	241
66050234	2 x 0,34	4,0	6,5	24
66050334	3 x 0,34	4,2	9,8	27
66050434	4 x 0,34	4,6	13,1	33
66050534	5 x 0,34	5,0	16,3	40
66050734	7 x 0,34	5,5	22,8	49
66050834	8 x 0,34	6,5	26,1	63
66051234	12 x 0,34	7,3	39,2	80
66051434	14 x 0,34	7,9	45,7	94
66051634	16 x 0,34	8,3	52,2	106
66051834	18 x 0,34	8,8	58,8	117
66052134	21 x 0,34	10,0	68,5	146
66052434	24 x 0,34	10,6	78,3	157
66052734	27 x 0,34	10,8	88,1	172
66053034	30 x 0,34	11,2	97,9	187
66053234	32 x 0,34	11,6	104,4	199
66053634	36 x 0,34	12,1	117,5	220
66054034	40 x 0,34	12,9	130,6	244
66054434	44 x 0,34	13,5	143,6	261

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# HALOGEN-FREE CABLES

EN 45545-2

Flame retardant acc. to  
UN/ECE R118

## SABIX® R 605 FRNC SABIX® Rail Data

BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm<sup>2</sup> CE



Marking for SABIX R 605 FRNC 66053250:

SAB BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66055034	50 x 0,34	14,5	163,2	304
66056134	61 x 0,34	15,4	199,1	358
66050250	2 x 0,50	4,3	9,6	28
66050350	3 x 0,50	4,5	14,4	33
66050450	4 x 0,50	4,9	19,2	40
66050550	5 x 0,50	5,4	24,0	49
66050750	7 x 0,50	6,1	33,6	63
66050850	8 x 0,50	7,1	38,4	79
66051250	12 x 0,50	8,1	57,6	102
66051450	14 x 0,50	8,5	67,2	115
66051650	16 x 0,50	9,0	76,8	131
66051850	18 x 0,50	9,5	86,4	145
66052150	21 x 0,50	10,9	100,8	180
66052450	24 x 0,50	11,5	115,2	195
66052750	27 x 0,50	11,7	129,6	213
66053050	30 x 0,50	12,1	144,0	232
66053250	32 x 0,50	12,6	153,6	248
66053650	36 x 0,50	13,1	172,8	274
66054450	44 x 0,50	15,1	211,2	341
66055050	50 x 0,50	15,7	240,0	411
66056150	61 x 0,50	16,7	292,8	448
66050275	2 x 0,75	4,9	14,4	38
66050375	3 x 0,75	5,2	21,6	45
66050475	4 x 0,75	5,9	28,8	58
66050575	5 x 0,75	6,4	36,0	70
66050775	7 x 0,75	7,0	50,4	87
66050875	8 x 0,75	8,3	57,6	111

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66051275	12 x 0,75	9,4	86,4	142
66051475	14 x 0,75	10,3	100,8	170
66051675	16 x 0,75	10,8	115,2	192
66051875	18 x 0,75	11,4	129,6	213
66052175	21 x 0,75	12,5	151,2	248
66052475	24 x 0,75	13,3	172,8	270
66052775	27 x 0,75	13,6	194,4	297
66053075	30 x 0,75	14,5	216,0	339
66053275	32 x 0,75	15,0	230,4	360
66053675	36 x 0,75	15,6	259,2	399
66054075	40 x 0,75	16,7	288,0	443
66054475	44 x 0,75	17,5	316,8	475
66055075	50 x 0,75	18,3	360,0	530
66056175	61 x 0,75	19,8	439,2	648
66050280	2 x 1,00	5,1	19,2	43
66050380	3 x 1,00	5,4	28,8	53
66050480	4 x 1,00	6,1	38,4	68
66050580	5 x 1,00	6,7	48,0	82
66050680	6 x 1,00	7,3	57,6	97
66050780	7 x 1,00	7,3	67,2	104
66050285	2 x 1,50	5,6	28,8	55
66050385	3 x 1,50	6,1	43,2	71
66050485	4 x 1,50	6,7	57,6	87
66050585	5 x 1,50	7,7	72,0	113
66050685	6 x 1,50	8,4	86,4	134
66050785	7 x 1,50	8,4	100,8	144

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles

# HALOGEN-FREE CABLES

EN 45545-2

Flame retardant acc. to  
UN/ECE R118

## SABIX® R 615 FRNC SABIX® Rail Data with overall copper screen



Marking for SABIX R 615 FRNC 66150750:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 615 FRNC 7 x 0,5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands with reference to IEC 60228, EN 6028, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

- ) halogen-free
- ) good EMC characteristics\*
- ) no flame propagation
- ) flame retardant and self-extinguishing
- ) fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- ) tested acc. to American ASTM standard
- ) flame retardant acc. to UN/ECE R118
- ) EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2. Burning tests acc. to ASTM E 162-09. Flame retardant acc. to ISO 6722 (UN/ECE R118)
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034 + ASTM E 662-09
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

Tested at reference types

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item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66150214	2 x 0,14	3,6	12,6	21
66150314	3 x 0,14	3,8	14,1	22
66150414	4 x 0,14	4,0	15,9	24
66150514	5 x 0,14	4,3	19,5	29
66150714	7 x 0,14	4,6	24,0	33
66150814	8 x 0,14	5,4	26,0	43
66151014	10 x 0,14	5,8	29,0	47
66151214	12 x 0,14	6,2	32,0	54
66151414	14 x 0,14	6,4	35,0	60
66151614	16 x 0,14	6,7	49,0	67
66151814	18 x 0,14	7,0	54,0	72
66152114	21 x 0,14	7,6	60,0	84
66152414	24 x 0,14	8,0	74,0	89
66152714	27 x 0,14	8,6	85,0	104
66153014	30 x 0,14	8,8	98,0	112
66153214	32 x 0,14	9,1	108,0	118
66153614	36 x 0,14	9,4	117,0	128
66154014	40 x 0,14	10,0	126,0	141
66154414	44 x 0,14	10,6	138,0	162
66155014	50 x 0,14	11,0	150,0	175
66155214	52 x 0,14	11,0	155,0	179
66156114	61 x 0,14	11,6	176,0	203
66150225	2 x 0,25	3,9	15,0	24
66150325	3 x 0,25	4,1	18,0	26
66150425	4 x 0,25	4,4	22,0	31
66150525	5 x 0,25	4,9	25,0	38
66150725	7 x 0,25	5,3	32,0	46
66150825	8 x 0,25	6,1	35,0	58
66151025	10 x 0,25	6,6	42,0	64

item no.	no. of cores x cross section n x mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66151225	12 x 0,25	6,8	50,0	72
66151425	14 x 0,25	7,1	64,0	80
66151625	16 x 0,25	7,4	71,0	89
66151825	18 x 0,25	7,8	80,0	98
66152125	21 x 0,25	8,8	105,0	122
66152425	24 x 0,25	9,3	115,0	130
66152725	27 x 0,25	9,5	120,0	142
66153025	30 x 0,25	9,8	132,0	152
66153225	32 x 0,25	10,1	138,0	161
66153625	36 x 0,25	10,7	152,0	189
66154025	40 x 0,25	11,3	164,0	209
66154425	44 x 0,25	11,8	180,0	221
66155025	50 x 0,25	12,7	222,0	254
66155225	52 x 0,25	12,7	234,0	260
66156125	61 x 0,25	13,4	287,0	295
66150234	2 x 0,34	4,5	17,0	31
66150334	3 x 0,34	4,9	21,0	36
66150434	4 x 0,34	5,3	25,0	43
66150534	5 x 0,34	5,7	30,0	51
66150734	7 x 0,34	6,4	42,0	63
66150834	8 x 0,34	7,2	45,0	78
66151034	10 x 0,34	7,8	63,0	87
66151234	12 x 0,34	8,0	70,0	97
66151434	14 x 0,34	8,8	78,0	118
66151634	16 x 0,34	9,2	87,0	129
66151834	18 x 0,34	9,7	108,0	144
66152134	21 x 0,34	10,7	127,0	177
66152434	24 x 0,34	11,3	140,0	193
66152734	27 x 0,34	11,5	151,0	207

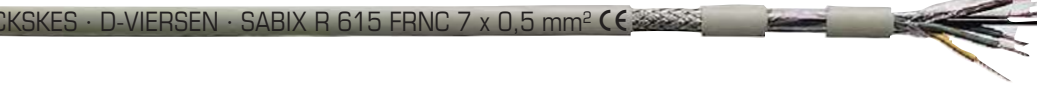
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# HALOGEN-FREE CABLES

EN 45545-2

Flame retardant acc. to  
UN/ECE R118

## SABIX® R 615 FRNC SABIX® Rail Data with overall copper screen



Marking for SABIX R 615 FRNC 66150750:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 615 FRNC 7 x 0,5 mm<sup>2</sup> CE

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
66153034	30 x 0,34	11,9	162,0	222	66150275	2 x 0,75	5,6	30,3	48
66153234	32 x 0,34	12,7	171,0	247	66150375	3 x 0,75	6,1	37,6	56
66153634	36 x 0,34	13,2	188,0	272	66150475	4 x 0,75	6,6	48,3	74
66154034	40 x 0,34	14,0	208,0	301	66150575	5 x 0,75	7,1	55,7	81
66154434	44 x 0,34	14,6	223,0	319	66150775	7 x 0,75	7,7	74,0	101
66155034	50 x 0,34	15,8	248,0	386	66150875	8 x 0,75	9,2	83,8	132
66155234	52 x 0,34	15,8	273,0	395	66151275	12 x 0,75	10,5	133,9	179
66156134	61 x 0,34	16,7	316,0	366	66151475	14 x 0,75	11,0	148,5	198
66150250	2 x 0,50	5,0	23,5	39	66151675	16 x 0,75	11,5	169,2	224
66150350	3 x 0,50	5,2	28,4	42	66151875	18 x 0,75	12,4	184,0	257
66150450	4 x 0,50	5,6	35,1	50	66152175	21 x 0,75	13,6	211,0	297
66150550	5 x 0,50	6,3	41,6	63	66152475	24 x 0,75	14,4	239,1	324
66150750	7 x 0,50	6,8	53,1	76	66152775	27 x 0,75	14,7	260,9	352
66150850	8 x 0,50	7,8	62,0	94	66153075	30 x 0,75	15,8	313,4	417
66151050	10 x 0,50	8,8	74,5	113	66153275	32 x 0,75	16,3	328,3	440
66151250	12 x 0,50	9,0	84,2	126	66153675	36 x 0,75	16,9	357,8	479
66151450	14 x 0,50	9,4	93,5	139	66150280	2 x 1,00	5,8	35,2	53
66151650	16 x 0,50	9,9	105,9	156	66150380	3 x 1,00	6,3	46,4	65
66151850	18 x 0,50	10,6	133,9	185	66150480	4 x 1,00	6,8	57,9	78
66152150	21 x 0,50	11,6	154,9	220	66150580	5 x 1,00	7,4	69,6	95
66152450	24 x 0,50	12,6	169,7	240	66150680	6 x 1,00	8,0	81,3	111
66152750	27 x 0,50	12,8	184,2	260	66150780	7 x 1,00	8,0	90,9	117
66153050	30 x 0,50	13,2	203,6	283	66150285	2 x 1,50	6,6	46,5	71
66153250	32 x 0,50	13,7	213,5	299	66150385	3 x 1,50	6,8	62,7	90
66153650	36 x 0,50	14,2	239,0	330	66150485	4 x 1,50	7,4	79,2	98
66154450	44 x 0,50	16,4	309,2	422	66150585	5 x 1,50	8,6	95,8	130
66155050	50 x 0,50	17,0	349,7	469	66150685	6 x 1,50	9,3	112,7	152
66156150	61 x 0,50	18,0	403,7	540	66150785	7 x 1,50	9,3	127,1	162

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles

# HALOGEN-FREE CABLES

EN 45545-2

Flame retardant acc. to  
UN/ECE R118

## SABIX® R 645 FRNC TP SABIX® Rail Data paired with overall copper screen



Marking for SABIX R 645 FRNC TP 66450325:  
SAB BRÖCKSKES · D-VIERSEN · SABIX R 645 FRNC TP 3 x 2 x 0,25 mm² CE

Construction:	
Conductor:	bare copper strands with reference to IEC 60228, EN 6028, VDE 0295, class 5
Insulation:	special SABIX®
Colour code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	foil
Screen:	tinned copper braiding
Sheath material:	special SABIX®
Sheath colour:	grey (RAL 7032)

Outstanding features:	
]	halogen-free
]	no flame propagation
]	good EMC characteristics*
]	flame retardant and self-extinguishing
]	fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
]	tested acc. to American ASTM standard
]	flame retardant acc. to UN/ECE R118
]	good transmission rates and crosstalk attenuation
]	EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:	
Peak operating voltage:	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
Halogen-free:	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
Fire performance:	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2. Burning tests acc. to ASTM E 162-09. Flame retardant acc. to ISO 6722 (UN/ECE R118)
Toxicity:	acc. to DIN EN 50305
Smoke density:	acc. to DIN EN 61034 + ASTM E 662-09
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Tested at reference types

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Especially for use  
in rail vehicles

item no.	no. of pairs x cross section n x 2 x mm²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km	item no.	no. of pairs x cross section n x 2 x mm²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
66450214	2 x 2 x 0,14	5,2	19,1	38	66450834	8 x 2 x 0,34	10,6	80,7	159
66450314	3 x 2 x 0,14	5,7	23,4	44	66451234	12 x 2 x 0,34	13,4	133,1	248
66450414	4 x 2 x 0,14	6,5	27,8	54	66451634	16 x 2 x 0,34	14,6	165,0	305
66450514	5 x 2 x 0,14	7,0	31,9	64	66451834	18 x 2 x 0,34	15,1	178,3	334
66450614	6 x 2 x 0,14	7,2	36,2	71	66452434	24 x 2 x 0,34	17,6	255,1	449
66450814	8 x 2 x 0,14	7,8	43,4	83	66450250	2 x 2 x 0,50	7,2	39,3	72
66451014	10 x 2 x 0,14	8,9	50,6	105	66450350	3 x 2 x 0,50	7,9	50,1	92
66451214	12 x 2 x 0,14	9,7	58,2	121	66450450	4 x 2 x 0,50	9,4	64,6	119
66451614	16 x 2 x 0,14	10,5	71,4	147	66450550	5 x 2 x 0,50	10,2	76,3	141
66451814	18 x 2 x 0,14	11,1	92,8	174	66450650	6 x 2 x 0,50	10,4	86,0	155
66452414	24 x 2 x 0,14	12,8	114,8	223	66450850	8 x 2 x 0,50	11,4	126,6	179
66450225	2 x 2 x 0,25	5,7	24,9	46	66451050	10 x 2 x 0,50	13,2	146,5	252
66450325	3 x 2 x 0,25	6,4	31,4	61	66451250	12 x 2 x 0,50	14,4	175,6	294
66450425	4 x 2 x 0,25	7,2	39,3	72	66451650	16 x 2 x 0,50	16,3	241,3	380
66450525	5 x 2 x 0,25	7,7	45,8	83	66451850	18 x 2 x 0,50	16,9	261,0	436
66450625	6 x 2 x 0,25	7,9	50,7	92	66452450	24 x 2 x 0,50	19,0	330,4	508
66450825	8 x 2 x 0,25	9,0	62,1	119	66450275	2 x 2 x 0,75	8,5	52,4	102
66451025	10 x 2 x 0,25	9,8	73,9	138	66450375	3 x 2 x 0,75	9,4	69,4	128
66451225	12 x 2 x 0,25	10,9	101,9	173	66450475	4 x 2 x 0,75	10,9	101,9	166
66451625	16 x 2 x 0,25	11,9	126,8	213	66450575	5 x 2 x 0,75	11,7	121,9	201
66451825	18 x 2 x 0,25	12,7	136,6	245	66450675	6 x 2 x 0,75	12,5	136,5	239
66452425	24 x 2 x 0,25	14,2	170,3	296	66450875	8 x 2 x 0,75	13,7	170,1	279
66450234	2 x 2 x 0,34	6,8	31,5	63	66451275	12 x 2 x 0,75	17,1	261,2	419
66450334	3 x 2 x 0,34	7,4	39,7	79	66451675	16 x 2 x 0,75	18,6	329,9	522
66450434	4 x 2 x 0,34	8,8	49,8	102	66451875	18 x 2 x 0,75	19,3	369,3	580
66450534	5 x 2 x 0,34	9,5	58,5	121	66452475	24 x 2 x 0,75	21,8	469,2	714
66450634	6 x 2 x 0,34	9,7	65,1	125					

Other dimensions and colours are possible on request.

## SABIX® R flex Continuously flexible SABIX® Rail cable with numbered cores

SAB BRÖCKSKES · D-VIERSEN · SABIX R flex 5G0,75 mm<sup>2</sup> CE



Marking for SABIX R flex 66701105:

SAB BRÖCKSKES · D-VIERSEN · SABIX R flex 5G0,75 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	special Polymer
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores. Twisted pairs type without green-yellow earth wire
<b>Stranding:</b>	in layers resp. pairwise
<b>Wrapping:</b>	PP foil
<b>Screen:</b>	tinned copper braiding (if existing)
<b>Sheath material:</b>	SABIX® Ultra
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 halogen-free
- 】 continuously flexible
- 】 good EMC characteristics\*
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 good ozone and UV resistance
- 】 good oil and fuel resistance
- 】 good acid and alkalines resistance
- 】 fulfils fire protection requirements R15 (EL1A) and R16 (EL1B) acc. to EN 45545-2 for hazard levels HL1-2

\* (screened version) Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V	
<b>Testing voltage:</b>	2000 V	
<b>Min. bending radius</b>	unshielded	shielded
<i>fixed laying:</i>	4 x d	5 x d
<i>flexible application:</i>	6 x d	10 x d
<i>continuously flexible:</i>	12 x d	15 x d
<b>Temperature range</b>		
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-40/+90 °C	
<b>Halogen-free:</b>	acc. to DIN EN 50306-1 + DIN 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.	
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2.	
<b>Toxicity:</b>	acc. to DIN EN 50305	
<b>Smoke density:</b>	acc. to DIN EN 61034	
<b>Oil and fuel resistance:</b>	acc. to DIN EN 50264-1	
<b>Flexibility:</b>	very good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17	



Suitable for flexible and protected installation in the interior for door control or in protecting tubes for outdoor laying at the bogie, railway machines or as connection cable between the waggons. Appropriate for light and medium mechanical stress.

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>multi-core cable unscreened</b>					
66700002	2 x 0,50	0,16	4,6	9,6	31
66700004	4 x 0,50	0,16	5,4	19,2	47
66700007	7 x 0,50	0,16	6,9	33,6	76
66700012	12 x 0,50	0,16	8,4	57,6	113
66700018	18 x 0,50	0,16	9,9	86,4	160
66700032	32 x 0,50	0,16	12,8	153,6	267
66700103	3 x 0,75	0,16	5,6	21,6	51
66700105	5 x 0,75	0,16	6,7	36,0	75
66700125	25 x 0,75	0,16	13,8	180,0	303
66700202	2 x 1,00	0,16	5,7	19,2	49
66700273	73 x 1,00	0,16	23,0	700,8	989
66700303	3 x 1,50	0,16	6,6	43,2	81
66700307	7 x 1,50	0,16	9,4	100,8	167
66700318	18 x 1,50	0,16	13,7	259,2	376

Other dimensions and colours are possible on request.

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>multi-pair cable screened</b>					
66703002	2 x 2 x 0,50	0,16	7,0	36,9	69
66703003	3 x 2 x 0,50	0,16	8,0	49,4	90
66703004	4 x 2 x 0,50	0,16	10,0	65,3	121
66703006	6 x 2 x 0,50	0,16	10,4	103,4	161
66703008	8 x 2 x 0,50	0,16	12,5	129,4	229
66703012	12 x 2 x 0,50	0,16	14,3	177,1	278
66703103	3 x 2 x 0,75	0,16	8,9	69,2	113
66703108	8 x 2 x 0,75	0,16	14,6	177,6	306
66703202	2 x 2 x 1,00	0,16	8,9	64,4	111
66703203	3 x 2 x 1,00	0,16	9,5	83,9	135
66703206	6 x 2 x 1,00	0,16	12,6	168,0	249
66703208	8 x 2 x 1,00	0,16	15,1	220,8	357
66703302	2 x 2 x 1,50	0,16	10,3	103,2	157
66703304	4 x 2 x 1,50	0,16	12,7	168,1	243
66703306	6 x 2 x 1,50	0,16	14,3	234,7	345

Other dimensions and colours are possible on request.

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
<b>multi-core cable screened</b>					
66701002	2 x 0,50	0,16	5,3	24,8	46
66701003	3 x 0,50	0,16	5,5	29,8	51
66701005	5 x 0,50	0,16	6,5	40,3	71
66701007	7 x 0,50	0,16	7,4	53,8	91
66701018	18 x 0,50	0,16	10,8	132,5	200
66701032	32 x 0,50	0,16	13,7	214,5	317
66701103	3 x 0,75	0,16	6,1	37,7	62
66701104	4 x 0,75	0,16	6,7	46,2	76
66701105	5 x 0,75	0,16	7,2	55,9	90
66701125	25 x 0,75	0,16	14,5	242,3	351
66701204	4 x 1,00	0,16	6,9	56,0	87
66701207	7 x 1,00	0,16	8,7	90,1	137
66701212	12 x 1,00	0,16	11,0	161,6	224
66701303	3 x 1,50	0,16	7,1	61,0	92
66701304	4 x 1,50	0,16	7,6	78,0	111
66701305	5 x 1,50	0,16	8,5	94,8	137
66701318	18 x 1,50	0,16	14,4	321,3	417
66701404	4 x 2,50	0,16	9,7	122,5	174
66701405	5 x 2,50	0,16	11,0	166,4	235
66701407	7 x 2,50	0,16	13,2	288,3	324
66701412	12 x 2,50	0,16	15,7	356,2	465
66701504	4 x 4,00	0,16	11,4	200,6	260
66701604	4 x 6,00	0,21	13,9	291,6	380
66701704	4 x 10,00	0,21	16,8	483,2	605
66701804	4 x 16,00	0,21	20,2	730,4	885
66701904	4 x 25,00	0,21	24,1	1113,6	1293

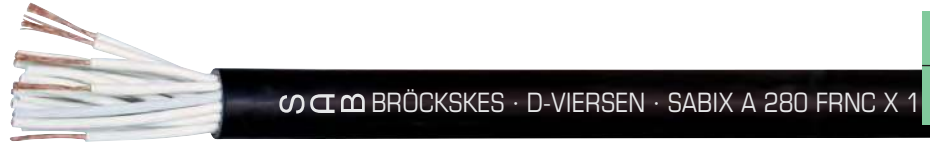
Other dimensions and colours are possible on request.

## SABIX® A 280 FRNC X Wiring cable / Control cable



 BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X 1 x 1,0 mm² CE

Marking for SABIX A 280 FRNC X 1 x 1,0 mm²:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X 1 x 1,0 mm² CE



Marking for SABIX A 280 FRNC X 12 x 0,5 mm²:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X 12 x 0,5 mm² CE

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### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Single conductor:</b>	
<b>Colour code:</b>	white (similar RAL 9010)
<b>Multi-core cable:</b>	
<b>Colour code:</b>	white cores with black numbers acc. to. EN 50334
<b>Multi-core cable:</b>	
<b>Stranding:</b>	in layers
<b>Multi-core cable:</b>	
<b>Sheath material:</b>	special SABIX®
<b>Multi-core cable:</b>	
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 halogen-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 good ozone resistance
- 】 good oil and chemical resistance
- 】 fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	5 x d
<b>Temperature range</b> <i>during protected, fixed laying:</i>	-40/+125 °C (single conductor) -50/+125 °C (multi-core cable)
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

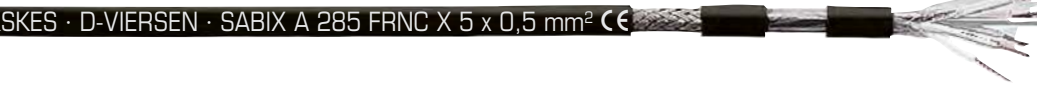


**Especially for use  
in rail vehicles**

item no.	no. of cores x cross section	largest single wire	outer-ø ± 5%	copper figure	cable weight	ohmic resistance at 20°C max. Ω/km	heating value approx. kWh/km
	n x mm²	ø mm	mm	kg/km	≈ kg/km		
62800105	1 x 0,50	0,21	1,7	4,8	7	40,1	13,0
62800305	3 x 0,50	0,21	4,7	14,4	35	40,1	115
62800505	5 x 0,50	0,21	5,8	24,0	50	40,1	170
62800805	8 x 0,50	0,21	7,3	38,4	83	40,1	246
62801005	10 x 0,50	0,21	8,1	48,0	97	40,1	275
62801205	12 x 0,50	0,21	8,4	57,6	112	40,1	306
62800607	6 x 0,75	0,21	7,2	43,2	86	26,7	237
62800807	8 x 0,75	0,21	7,3	57,6	101	26,7	245
62801007	10 x 0,75	0,21	9,4	72,0	133	26,7	345
62800110	1 x 1,00	0,21	2,1	9,6	12	20,0	16,0
62800310	3 x 1,00	0,21	5,5	28,8	55	20,0	162
62800410	4 x 1,00	0,21	6,2	38,4	71	20,0	186
62800610	6 x 1,00	0,21	7,5	57,6	101	20,0	252
62800810	8 x 1,00	0,21	9,0	76,8	135	20,0	338
62801010	10 x 1,00	0,21	10,1	96,0	164	20,0	402
62800115	1 x 1,50	0,21	2,5	14,4	17	13,7	22,5
62800315	3 x 1,50	0,21	6,6	43,2	68	13,7	210
62800125	1 x 2,50	0,26	3,1	24,0	27	8,21	34,0

Other dimensions and colours are possible on request.

## SABIX® A 285 FRNC X Control cable with numbered cores and overall copper screen



Marking for SABIX A 285 FRNC X 5 x 0,5 mm<sup>2</sup>:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 285 FRNC X 5 x 0,5 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	white cores with black numbers acc. to. EN 50334
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- )] halogen-free
- )] good EMC characteristics\*
- )] no flame propagation
- )] flame retardant and self-extinguishing
- )] good ozone resistance
- )] good oil and chemical resistance
- )] fulfils fire protection requirements R15 (EL1A)  
acc. to EN 45545-2 for hazard levels HL1-3
- )] EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	10 x d
<b>Temperature range during protected, fixed laying:</b>	-50/+125 °C
<b>Halogen-free:</b>	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
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 + DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section	largest single wire	outer-ø ± 5%	copper figure	cable weight	ohmic resistance at 20°C max. Ω/km	heating value approx. kWh/km
	n x mm <sup>2</sup>	ø mm	mm	kg/km	≈ kg/km		
62850305	3 x 0,50	0,21	5,2	30,3	45	40,1	99
62850505	5 x 0,50	0,21	6,3	43,5	68	40,1	154
62850805	8 x 0,50	0,21	7,9	62,2	97	40,1	237
62851005	10 x 0,50	0,21	8,6	74,3	114	40,1	258
62851205	12 x 0,50	0,21	8,9	86,6	127	40,1	288
62850607	6 x 0,75	0,21	7,7	67,0	101	26,7	231
62850807	8 x 0,75	0,21	9,1	86,6	132	26,7	305
62851007	10 x 0,75	0,21	10,4	119,7	172	26,7	381
62850310	3 x 1,00	0,21	6,2	46,5	66	20,0	155
62850610	6 x 1,00	0,21	8,2	83,7	125	20,0	285
62850810	8 x 1,00	0,21	9,8	106,0	160	20,0	366
62851010	10 x 1,00	0,21	10,8	149,9	200	20,0	401

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles



## SABIX® A 280 FRNC X (FR) Fire resistant control cable



BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X (FR) 25 x 0,5 mm

Marking for SABIX A 280 FRNC X (FR) 25 x 0,5 mm<sup>2</sup>:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X (FR) 25 x 0,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	tinned copper strands fine wires
<b>Wrapping:</b>	mica tape
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	white cores with black numbers acc. to. EN 50334
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- )] halogen-free
- )] no flame propagation
- )] fire resistant
- )] flame retardant and self-extinguishing
- )] good ozone resistance
- )] good oil and chemical resistance
- )] fulfils fire protection requirements R15 (EL1A)  
acc. to EN 45545-2  
for hazard levels HL1-3
- )] EN 50200 PH 30 / IEC 60331-21

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius:</b>	10 x d
<b>Temperature range during protected, fixed laying:</b>	-50/+125 °C
<b>Halogen-free:</b>	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.
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2.
<b>Insulation integrity in case of fire:</b>	EN 50200 PH 30 IEC 60331-21 FE 180
<b>Toxicity:</b>	acc. to DIN EN 50305
<b>Smoke density:</b>	acc. to DIN EN 61034
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62809502	2 x 0,50	5,8	9,6	47
62809503	3 x 0,50	6,1	14,4	58
62809504	4 x 0,50	6,7	19,2	65
62809505	5 x 0,50	7,4	24,0	79
62809507	7 x 0,50	8,3	33,6	102
62809510	10 x 0,50	10,9	48,0	151
62809512	12 x 0,50	11,2	57,6	172
62809518	18 x 0,50	13,2	86,4	235
62809525	25 x 0,50	16,2	120,0	333
62809602	2 x 0,75	6,5	14,4	56
62809603	3 x 0,75	6,6	21,6	70
62809604	4 x 0,75	7,2	28,8	80
62809605	5 x 0,75	8,2	36,0	101
62809607	7 x 0,75	8,9	50,4	126
62809608	8 x 0,75	10,7	57,6	171
62809610	10 x 0,75	11,7	72,0	186
62809612	12 x 0,75	12,1	86,4	213
62809618	18 x 0,75	14,6	129,6	311
62809625	25 x 0,75	16,2	180,0	415
62809702	2 x 1,00	6,4	19,2	62
62809703	3 x 1,00	6,8	28,8	78
62809704	4 x 1,00	7,4	38,4	89
62809705	5 x 1,00	8,4	48,0	113
62809707	7 x 1,00	9,2	67,2	143
62809710	10 x 1,00	12,1	96,0	210
62809712	12 x 1,00	12,5	115,2	240
62809718	18 x 1,00	15,1	172,8	353
62809725	25 x 1,00	18,1	240,0	472

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62809802	2 x 1,50	7,2	28,8	83
62809803	3 x 1,50	7,7	43,2	107
62809804	4 x 1,50	8,6	57,6	128
62809805	5 x 1,50	9,8	72,0	163
62809807	7 x 1,50	10,7	100,8	207
62809808	8 x 1,50	12,5	115,2	264
62809810	10 x 1,50	13,7	144,0	291
62809812	12 x 1,50	14,6	172,8	351
62809818	18 x 1,50	17,1	259,2	495
62809825	25 x 1,50	21,0	360,0	686
62809902	2 x 2,50	8,6	48,0	121
62809903	3 x 2,50	9,1	72,0	156
62809904	4 x 2,50	10,3	96,0	189
62809905	5 x 2,50	11,4	120,0	230
62809907	7 x 2,50	12,5	168,0	297
62809910	10 x 2,50	16,5	240,0	434
62809912	12 x 2,50	17,0	288,0	498
62809918	18 x 2,50	20,5	432,0	731
62809925	25 x 2,50	25,0	600,0	1015

Other dimensions and colours are possible on request.



**Especially for use  
in rail vehicles**

## SABIX® A 170 TWÖ Flexible „Thinwall” single conductor - space and weight saving



BRÖCKSKES · D-VIERSEN · SABIX A 170 TWÖ EN 50306-2 300 V 1 x 0,5 mm<sup>2</sup> K CE

Marking for SABIX A 170 TWÖ 68700105:  
SAB BRÖCKSKES · D-VIERSEN ·  
SABIX A 170 TWÖ EN 50306-2 300 V 1 x 0,5 mm<sup>2</sup> K CE

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### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to EN 50306-2
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	white (similar RAL 9010)

### Outstanding features:

- )] halogen-free
- )] flame retardant
- )] low smoke emission
- )] smallest outer diameter
- )] space-saving installation
- )] light
- )] abrasion resistant surface
- )] standardized safety
- )] accomplishes the fire protection levels 1 - 4 acc. to DIN 5510
- )] EAC approval

em no.	no. of conductors	nominal cross-section mm <sup>2</sup>	min. outer-ø mm	max. outer-ø mm	cable weight ca. kg/km	ohmic-resistance at 20 °C max. Ω/km
68700105	1	0,50	1,15	1,45	5,5	40,10
68700107	1	0,75	1,35	1,65	8,2	26,70
68700110	1	1,00	1,45	1,80	10,0	20,00
68700115	1	1,50	1,95	2,30	14,6	13,70
68700125	1	2,50	2,50	2,85	23,7	8,21



Especially for use in rail vehicles

### Technical data:

<b>Nominal voltage U<sub>0</sub>:</b>	300 V	
<b>Testing voltage:</b>	4 kV	
<b>Temperature range:</b>	+105 °C, with short circuit of 5 sec., +160 °C	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17	
<b>Test EN 50306-2</b>	<b>Requirements</b>	<b>SAB results</b>
<b>Voltage test</b>	2000 V a.c., 5 min. 4800 V d.c., 5 min.	passed ✓
<b>Dielectric strength</b>	4000 V a.c.	passed ✓
<b>D.c.-voltage strength</b>	300 V d.c., 10 d / 85°C current increase ≤ 10%	passed ✓
<b>Insulation resistance at 20°C</b>	0,5 mm <sup>2</sup> - 600 MΩ*km	passed ✓
<b>Insulation resistance at 90°C</b>	0,5 mm <sup>2</sup> - 0,3 MΩ*km	passed ✓
<b>Stripping of insulation</b>	easy	passed ✓
<b>Oil resistance IRM 902 at 100°C / 24h</b>	no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Fuel resistance IRM 903 at 70°C / 168h</b>	no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Resistance against acids N-oxalic acid solution at 23°C / 168h</b>	no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Alkaline resistance N-oxalic acid solution at 23°C / 168h</b>	no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Hot pressure resistance at 125°C / 4h</b>	impression depth ≤ 50%, voltage test at 1,5 kV a.c.	impression depth 0% passed ✓
<b>Dynamic penetration test</b>	0,5 mm <sup>2</sup> - load 70 N	passed ✓
<b>Resistance to tear propagation</b>	at -15°C / 3h at +23°C / 3h at +85°C / 3h voltage test at 150 V a.c.	passed ✓
<b>Shrinking at 150°C</b>	< 1,5 mm	passed ✓
<b>Blocking of conductors</b>	at 150°C / 6h no adhesion	passed ✓
<b>Cold bend test</b>	at -40°C	passed ✓
<b>Abrasion resistance</b>	0,5 mm <sup>2</sup> - load 7 N	passed ✓
<b>Elasticity</b>		passed ✓
<b>Ozone resistance</b>	method B no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Stress cracking resistance</b>	168 h at 180°C no tears voltage test at 1,5 kV a.c.	passed ✓
<b>Flame propagation at core</b>	flame effect 60 sec. fire trace: < 425 mm	passed fire trace: 70 mm no afterflame period ✓
<b>Flame propagation banded cores</b>	flame effect 20 min fire trace: < 1,5 m	passed fire trace: 0,8 m no afterflame period ✓
<b>Acidity of corrosive gases</b>	pH min. 4,3 conductivity max. 10,0 µS/mm	passed ✓
<b>Development of corrosive gases</b>	hydrogen chloride max. 0,5%, fluorine max. 0,1%	passed ✓
<b>Smoke density</b>	category 4 ≥ 70%	light transmission ≥ 80%v ✓

Safety by standardized and controlled production

# HALOGEN-FREE CABLES

EN 50306-2

## SABIX® A 170 TWÖ Flexible „Thinwall” single conductor - space and weight saving

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**VDE Prüf- und Zertifizierungsinstitut**

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Grefrather Strasse 204-212 b  
41749 Viersen

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is authorized to use for their product

Kabel und Leitungen für Schienenfahrzeuge mit verbessertem Verhalten  
im Brandfall, reduzierte Isolierwanddicken, einadrig.  
Railway rolling stock cables having special fire  
performance-Thin wall-Single core cables.

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DIN EN 50306-2 (VDE 0260 Teil 306-2):2003-05

Aktzeichen: 493200-5730-0002 / 49161  
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Kabel und Leitungen für Schienenfahrzeuge mit verbessertem Verhalten  
im Brandfall, reduzierte Isolierwanddicken, einadrig.  
Railway rolling stock cables having special fire  
performance-Thin wall-Single core cables.

Gefahrenniveau K  
Hazard level K

300 V

Firmenzeichen  
Trademark  
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VDE Testing and Certification Institute  
Fachgebiet FG41  
Section FG41

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Münsterstraße 28, D-63069 Offenbach Telefon +49 (0) 59 83 06-0  
Telefax +49 (0) 59 83 06-505

Construction with reference to EN 50306

# HALOGEN-FREE CABLES

Classification of smoke density acc. to NF F 16-101

## SABIX® A 871 TWÖ „Thinwall” connection and data cable

BRÖCKSKES · D-VIERSEN · SABIX A 871 TWÖ 18 x 0,75 mm<sup>2</sup> CE



Marking for SABIX A 871 TWÖ 68711807:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 871 TWÖ 18 x 0,75 mm<sup>2</sup> CE

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### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to. EN 50306-2
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	white cores with black numbers acc. to. EN 50334
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- › very flexible
- › halogen-free
- › oil resistant
- › flame retardant and self-extinguishing
- › classification of smoke density acc. to NF F 16-101
- › thin-walled
- › high installation comfort
- › EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+105°C
<i>flexible application:</i>	-25/+105°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	No flame propagation acc. to IEC 60332 + EN 60332 resp. EN 50305. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101
<b>Ozone resistance:</b>	acc. to VDE 0282 part 2
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer- ø mm	copper figure kg/km	cable weight ≈ kg/km
68710207	2 x 0,75	4,7	14,4	35
68710407	4 x 0,75	5,3	28,8	51
68711007	10 x 0,75	8,4	72,0	116
68711807	18 x 0,75	10,2	129,6	193
68710210	2 x 1,00	5,0	19,2	41
68710310	3 x 1,00	5,2	28,8	50

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer- ø mm	copper figure kg/km	cable weight ≈ kg/km
68710410	4 x 1,00	5,7	38,4	61
68711010	10 x 1,00	9,0	96,0	140
68712510	25 x 1,00	12,8	240,0	308
68710515	5 x 1,50	7,5	72,0	113
68710715	7 x 1,50	8,2	100,8	148
68710325	3 x 2,50	7,2	72,0	107

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles

Construction with reference to EN 50306

# HALOGEN-FREE CABLES

Classification of smoke density acc. to NF F 16-101

## SABIX® A 872 C TWÖ „Thinwall” connection and data cable with overall copper screen



Marking for SABIX A 872 C TWÖ 68720610:  
SAB BRÖCKSKES · D-VIERSEN · SABIX A 872 C TWÖ 6 x 1,0 mm<sup>2</sup> CE

Construction:	
Conductor:	tinned copper strands fine wires acc. to. EN 50306-2
Insulation:	special SABIX®
Colour code:	white cores with black numbers acc. to. EN 50334
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	special SABIX®
Sheath colour:	black (RAL 9005)

Technical data:	
Nominal voltage:	U <sub>0</sub> /U 300/500 V
Testing voltage:	2000 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
Temperature range	
<i>fixed laying:</i>	-40/+105°C
<i>flexible application:</i>	-25/+105°C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	No flame propagation acc. to IEC 60332 + EN 60332 resp. EN 50305. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101
Ozone resistance:	acc. to VDE 0282 part 2
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

Outstanding features:	
]	very flexible
]	good EMC characteristics*
]	halogen-free
]	oil resistant
]	flame retardant and self-extinguishing
]	classification of smoke density acc. to NF F 16-101
]	thin-walled
]	high installation comfort
]	EAC approval

\*Copper braiding should be connected circularly to optimize the EMC characteristics

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer- ø mm	copper figure kg/km	cable weight ≈ kg/km
68720205	2 x 0,50	4,8 ± 0,5	22,9	34
68720405	4 x 0,50	5,4 ± 0,5	35,1	48
68720805	8 x 0,50	7,4 ± 0,5	57,1	83
68721005	10 x 0,50	8,0 ± 0,5	74,3	101
68721205	12 x 0,50	8,2 ± 0,5	84,0	113
68721605	16 x 0,50	9,0 ± 0,5	105,7	140
68720207	2 x 0,75	5,2 ± 0,5	30,0	41
68720407	4 x 0,75	5,8 ± 0,5	47,2	61
68720607	6 x 0,75	6,8 ± 0,5	64,7	83
68720807	8 x 0,75	8,1 ± 0,5	84,5	111
68721007	10 x 0,75	8,8 ± 0,5	100,8	131
68721207	12 x 0,75	9,0 ± 0,5	115,3	148
68721407	14 x 0,75	9,4 ± 0,5	131,2	167

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer- ø mm	copper figure kg/km	cable weight ≈ kg/km
68721607	16 x 0,75	9,9 ± 0,5	148,8	187
68721807	18 x 0,75	10,4 ± 0,5	163,6	205
68720210	2 x 1,00	5,5 ± 0,5	35,1	47
68720410	4 x 1,00	6,2 ± 0,5	57,8	71
68720610	6 x 1,00	7,3 ± 0,5	81,7	102
68720710	7 x 1,00	7,3 ± 0,5	91,3	108
68720810	8 x 1,00	8,6 ± 0,5	105,6	130
68721010	10 x 1,00	9,4 ± 0,5	127,7	155
68720215	2 x 1,50	6,1 ± 0,5	48,2	62
68720415	4 x 1,50	7,0 ± 0,5	81,4	99
68720715	7 x 1,50	8,6 ± 0,5	129,6	160
68720815	8 x 1,50	9,8 ± 0,5	149,7	184

Other dimensions and colours are possible on request.



Especially for use in rail vehicles

Construction with reference to EN 50306

# HALOGEN-FREE CABLES

Classification of smoke density acc. to NF F 16-101

## SABIX® A 876 C TWÖ TP Paired „Thinwall” connection and data cable with overall copper screen

VIERSEN · SABIX A 876 C TWÖ TP 3 x 2 x 0,75 mm² CE



Marking for SABIX A 876 C TWÖ TP 68760307:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 876 C TWÖ TP 3 x 2 x 0,75 mm² CE

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### Construction:

<b>Conductor:</b>	tinned copper strands fine wires acc. to. EN 50306-2
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	white cores with black numbers acc. to. EN 50334
<b>Stranding:</b>	pairwise, pairs in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 very flexible
- 】 good EMC characteristics\*
- 】 halogen-free
- 】 oil resistant
- 】 flame retardant and self-extinguishing
- 】 classification of smoke density acc. to NF F 16-101
- 】 thin-walled
- 】 high installation comfort
- 】 EAC approval

\*Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+105°C
<i>flexible application:</i>	-25/+105°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	No flame propagation acc. to IEC 60332 + EN 60332 resp. EN 50305. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101
<b>Ozone resistance:</b>	acc. to VDE 0282 part 2
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer- ø mm	copper figure kg/km	cable weight ≈ kg/km
68760305	3 x 2 x 0,50	7,4	50,1	75
68760405	4 x 2 x 0,50	8,4	62,2	92
68760207	2 x 2 x 0,75	7,1	48,5	73
68760307	3 x 2 x 0,75	8,1	66,9	95

Other dimensions and colours are possible on request.



Especially for use  
in rail vehicles

# HALOGEN-FREE CABLES

## SABIX® BL 405 FRNC halogen-free flexible data cable

BL = BlueLine



350V DNV-GL ABS Assessed Lloyd's Register



Marking for SABIX BL 405 FRNC 64051650: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 405 FRNC 16x0,5mm<sup>2</sup> - IEC 60332-3-22 - 350V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

A  
63

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to DIN VDE 0812 resp. IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Outstanding features:

- 】 halogen-free
- 】 asbestos-free
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 flexible
- 】 for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 】 approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- 】 EAC approval

### Possible on request:



- 】 bare copper strands
- 】 alternative colour code and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64050214	2 x 0,14	3,6	2,7	18
64050314	3 x 0,14	3,8	4,0	21
64050414	4 x 0,14	4,1	5,4	24
64050514	5 x 0,14	4,5	6,7	29
64050614	6 x 0,14	4,8	8,1	33
64050714	7 x 0,14	4,8	9,4	35
64050814	8 x 0,14	5,5	10,8	42
64051214	12 x 0,14	6,3	16,1	56
64051614	16 x 0,14	7,0	21,5	70
64050225	2 x 0,25	3,9	4,8	22
64050325	3 x 0,25	4,1	7,2	26
64050425	4 x 0,25	4,5	9,6	31
64050525	5 x 0,25	4,9	12,0	37
64050625	6 x 0,25	5,3	14,4	43
64050725	7 x 0,25	5,3	16,8	46
64050825	8 x 0,25	6,2	19,2	57
64051225	12 x 0,25	7,0	28,8	74
64051625	16 x 0,25	7,7	38,4	93
64050234	2 x 0,34	4,3	6,5	28
64050334	3 x 0,34	4,6	9,8	33
64050434	4 x 0,34	5,0	13,1	39
64050534	5 x 0,34	5,4	16,3	47
64050634	6 x 0,34	6,1	19,6	58

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64050734	7 x 0,34	6,1	22,8	61
64050834	8 x 0,34	7,0	26,1	73
64051234	12 x 0,34	7,8	39,2	95
64051634	16 x 0,34	9,0	52,5	129
64050250	2 x 0,50	4,7	9,6	35
64050350	3 x 0,50	5,0	14,4	42
64050450	4 x 0,50	5,4	19,2	50
64050550	5 x 0,50	6,1	24,0	64
64050650	6 x 0,50	6,7	28,8	74
64050750	7 x 0,50	6,7	33,6	79
64050850	8 x 0,50	7,7	38,4	95
64051250	12 x 0,50	9,0	57,6	133
64051650	16 x 0,50	10,0	76,8	169
64050275	2 x 0,75	5,2	14,4	43
64050375	3 x 0,75	5,5	21,6	52
64050475	4 x 0,75	6,2	28,8	66
64050575	5 x 0,75	6,8	36,0	79
64050675	6 x 0,75	7,4	43,2	92
64050775	7 x 0,75	7,4	50,4	99
64050875	8 x 0,75	8,8	57,6	126
64051275	12 x 0,75	10,1	86,4	166
64051675	16 x 0,75	11,1	115,2	212

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

## SABIX® BL 415 C FRNC halogen-free flexible data cable with overall copper screen

BL = BlueLine

Assessed Lloyd's Register



Marking for SABIX BL 415 C FRNC 64150750: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 415 C FRNC 7x0,5mm<sup>2</sup> - IEC 60332-3-22 - 350V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking



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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to DIN VDE 0812 resp. IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › good EMC characteristics\*
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- › EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b> <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b> <i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64150214	2 x 0,14	4,1	13,0	25
64150314	3 x 0,14	4,3	14,4	29
64150414	4 x 0,14	4,6	19,3	35
64150514	5 x 0,14	5,0	20,7	40
64150614	6 x 0,14	5,3	22,2	43
64150714	7 x 0,14	5,3	23,5	45
64150814	8 x 0,14	6,2	28,4	57
64151214	12 x 0,14	6,8	35,8	70
64151614	16 x 0,14	7,5	43,0	85
64150225	2 x 0,25	4,4	18,6	32
64150325	3 x 0,25	4,6	21,1	36
64150425	4 x 0,25	5,0	23,6	41
64150525	5 x 0,25	5,4	27,9	49
64150625	6 x 0,25	5,8	30,5	54
64150725	7 x 0,25	5,8	32,9	57
64150825	8 x 0,25	6,7	38,8	71
64151225	12 x 0,25	7,5	50,3	89
64151625	16 x 0,25	8,6	62,2	118

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64150234	2 x 0,34	4,8	20,5	37
64150334	3 x 0,34	5,1	23,8	42
64150434	4 x 0,34	5,5	29,0	50
64150534	5 x 0,34	6,1	32,4	61
64150634	6 x 0,34	6,6	39,1	71
64150734	7 x 0,34	6,6	42,4	75
64150834	8 x 0,34	7,5	47,6	88
64151234	12 x 0,34	8,7	65,3	121
64151634	16 x 0,34	9,5	81,2	149
64150250	2 x 0,50	5,2	23,7	43
64150350	3 x 0,50	5,5	30,3	52
64150450	4 x 0,50	6,1	35,3	64
64150550	5 x 0,50	6,6	43,5	77
64150650	6 x 0,50	7,2	50,1	85
64150750	7 x 0,50	7,2	54,9	90
64150850	8 x 0,50	8,6	62,2	116
64151250	12 x 0,50	9,5	86,6	152
64151650	16 x 0,50	10,7	124,5	201
64150275	2 x 0,75	5,7	30,4	52
64150375	3 x 0,75	6,2	39,2	65
64150475	4 x 0,75	6,7	48,4	78
64150575	5 x 0,75	7,3	57,4	93
64150675	6 x 0,75	7,9	66,9	106
64150775	7 x 0,75	7,9	74,1	114
64150875	8 x 0,75	9,3	83,9	142
64151275	12 x 0,75	10,8	134,2	194
64151675	16 x 0,75	11,8	169,6	247

Other dimensions and colours are possible on request.



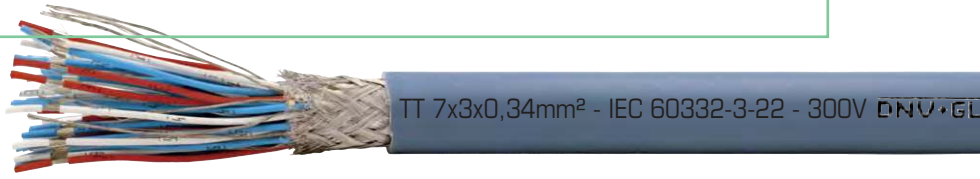
Especially for use  
in shipbuilding industry



# HALOGEN-FREE CABLES

## SABIX® BL 443 C FRNC TT halogen-free flexible data cable, twisted triple with overall copper screen

BL = BlueLine



TT 7x3x0,34mm<sup>2</sup> - IEC 60332-3-22 - 300V DNV-GL



Marking for SABIX BL 443 C FRNC TT 64430734: SAB BRÖCKSKES · D-VIERSEN · SABIX BL 443 C FRNC TT 7x3x0,34mm<sup>2</sup> - IEC 60332-3-22 - 300V DNV-GL CE and current meter marking

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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	≤ 0,25 mm <sup>2</sup> = DIN 47100 ≥ 0,34 mm <sup>2</sup> = white, blue, red with printed triple number
<b>Stranding:</b>	cores white, blue, red twisted to triples, triples twisted in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Outstanding features:

- › halogen-free
  - › asbestos-free
  - › good EMC characteristics\*
  - › no flame propagation
  - › flame retardant and self-extinguishing
  - › flexible
  - › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
  - › approvals: DNV-GL
- \* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	max. 300 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	no. of triples x cross section n x 3 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
64430225	2 x 3 x 0,25	7,2	35,7	68
64430425	4 x 3 x 0,25	8,8	55,0	103
64430725	7 x 3 x 0,25	10,6	98,1	161
64431025	10 x 3 x 0,25	13,4	131,9	235
64430234	2 x 3 x 0,34	8,0	43,4	82
64430434	4 x 3 x 0,34	9,8	68,3	127
64430734	7 x 3 x 0,34	11,9	123,0	202
64431034	10 x 3 x 0,34	15,2	195,5	313
64430250	2 x 3 x 0,50	9,0	55,0	105
64430450	4 x 3 x 0,50	10,7	105,3	161
64430750	7 x 3 x 0,50	13,2	160,6	254
64431050	10 x 3 x 0,50	16,9	254,0	391
64430275	2 x 3 x 0,75	10,4	90,8	144
64430475	4 x 3 x 0,75	12,6	145,9	223
64430775	7 x 3 x 0,75	15,2	248,8	350
64431075	10 x 3 x 0,75	19,3	340,6	5043

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

## SABIX® BL 445 C FRNC TP halogen-free flexible paired data cable with overall copper screen

BL = BlueLine



Marking for SABIX BL 445 C FRNC TP 64450325: SAB BRÖCKSKES · D-VIERSEN ·

SABIX BL 445 C FRNC TP 3x2x0,25mm<sup>2</sup> - IEC 60332-3-22 - 350V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking



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66

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to DIN VDE 0812 resp. IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	pairwise, pairs in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Outstanding features:

- )] halogen-free
- )] asbestos-free
- )] good EMC characteristics\*
- )] good transmission rates and crosstalk attenuation
- )] no flame propagation
- )] flame retardant and self-extinguishing
- )] flexible
- )] for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- )] approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- )] EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Possible on request:



- )] bare copper strands
- )] alternative colour code and sheath colour

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
64450214	2 x 2 x 0,14	5,3	19,5	37
64450314	3 x 2 x 0,14	5,8	21,4	44
64450414	4 x 2 x 0,14	6,8	30,4	58
64450514	5 x 2 x 0,14	7,4	34,9	68
64450614	6 x 2 x 0,14	7,6	39,8	76
64450814	8 x 2 x 0,14	8,7	47,6	98
64451014	10 x 2 x 0,14	9,5	55,9	114
64451214	12 x 2 x 0,14	10,6	79,9	142
64451814	18 x 2 x 0,14	12,4	102,9	200
64450225	2 x 2 x 0,25	5,8	25,7	44
64450325	3 x 2 x 0,25	6,5	32,1	57
64450425	4 x 2 x 0,25	7,4	40,6	71
64450525	5 x 2 x 0,25	8,7	50,1	96
64450625	6 x 2 x 0,25	8,7	54,9	104
64450825	8 x 2 x 0,25	9,1	67,4	121
64451025	10 x 2 x 0,25	10,6	95,7	156
64451225	12 x 2 x 0,25	11,6	111,9	180
64451825	18 x 2 x 0,25	13,8	171,9	272
64452625	26 x 2 x 0,25	16,3	223,2	368

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
64450234	2 x 2 x 0,34	6,4	30,7	56
64450334	3 x 2 x 0,34	7,2	40,9	71
64450434	4 x 2 x 0,34	8,7	52,3	97
64450534	5 x 2 x 0,34	9,4	61,6	115
64450634	6 x 2 x 0,34	9,6	68,2	128
64450834	8 x 2 x 0,34	10,8	100,0	164
64451034	10 x 2 x 0,34	11,8	119,7	194
64451234	12 x 2 x 0,34	13,4	138,2	238
64451834	18 x 2 x 0,34	15,8	215,3	357
64450250	2 x 2 x 0,50	7,2	40,5	70
64450350	3 x 2 x 0,50	7,9	52,5	88
64450450	4 x 2 x 0,50	9,5	67,4	120
64450550	5 x 2 x 0,50	10,5	95,6	154
64450650	6 x 2 x 0,50	10,8	105,4	171
64450850	8 x 2 x 0,50	11,9	131,3	207
64451050	10 x 2 x 0,50	13,4	155,9	259
64451250	12 x 2 x 0,50	15,0	212,6	322
64451850	18 x 2 x 0,50	17,4	283,5	451
64450275	2 x 2 x 0,75	7,9	52,5	87
64450375	3 x 2 x 0,75	9,2	69,5	115
64450475	4 x 2 x 0,75	10,7	105,3	156
64450575	5 x 2 x 0,75	11,6	126,3	186
64450675	6 x 2 x 0,75	12,4	141,0	221
64450875	8 x 2 x 0,75	13,8	200,7	284
64451075	10 x 2 x 0,75	15,2	241,6	338
64451275	12 x 2 x 0,75	17,2	283,2	411
64451875	18 x 2 x 0,75	19,4	384,0	553

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

## SABIX® BL 446 C FRNC FTP halogen-free flexible paired data cable with aluminum pair screen and overall copper screen

BL = BlueLine



24x(2x0,75mm<sup>2</sup>)ST - IEC 60332-3-22 - 300V DNV-GL



Marking for SABIX BL 446 C FRNC FTP 64462475: SAB BRÖCKSKES · D-VIERSEN · SABIX BL 446 C FRNC FTP 24x(2x0,75mm<sup>2</sup>)ST - IEC 60332-3-22 - 300V DNV-GL CE and current meter marking

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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	≤ 0,25 mm <sup>2</sup> = DIN 47100 ≥ 0,34 mm <sup>2</sup> = white, blue with marking, pairnumber
<b>Stranding:</b>	cores white, blue twisted to pairs
<b>Pairscreen:</b>	alu foil
<b>Stranding:</b>	pairs together in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	PETP foil
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Technical data:

<b>Peak operating voltage:</b>	max. 300 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Outstanding features:

- › halogen-free
- › asbestos-free
- › good EMC characteristics\*
- › good transmission rates and crosstalk attenuation
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals: DNV-GL

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
64460225	2 x (2 x 0,25)ST	6,2	27,8	53
64460825	8 x (2 x 0,25)ST	10,1	84,5	150
64461225	12 x (2 x 0,25)ST	12,7	142,4	236
64460834	8 x (2 x 0,34)ST	11,4	123,2	196
64461234	12 x (2 x 0,34)ST	14,5	189,7	301
64460475	4 x (2 x 0,75)ST	11,3	124,7	182
64462475	24 x (2 x 0,75)ST	23,7	591,1	854
64461980	19 x (2 x 1,50)ST	25,1	779,7	1031

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

## SABIX® BL 400 FRNC halogen-free flexible control cable 300/500 V

BL = BlueLine



Marking for SABIX BL 400 FRNC 64001215: SAB BRÖCKSKES · D-VIERSEN · SABIX BL 400 FRNC 12x1,5mm<sup>2</sup> - IEC 60332-3-22 - 300/500V DNV·GL ABS Assessed Lloyd's Register CE and current meter marking



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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black conductors with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Sheathmaterial:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention  
ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- › EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
fixed laying:	4 x d
flexible application:	6 x d
<b>Temperature range</b>	
fixed laying:	-40/+90°C
flexible application:	-30/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64000205	2 x 0,50	5,3	9,6	42
64000305	3 x 0,50	5,6	14,4	49
64000405	4 x 0,50	6,0	19,2	59
64000505	5 x 0,50	6,6	24,0	72
64000705	7 x 0,50	7,3	33,6	90
64001205	12 x 0,50	9,6	57,6	147
64001805	18 x 0,50	11,4	86,4	212
64000207	2 x 0,75	5,8	14,4	51
64000307	3 x 0,75	6,1	21,6	60
64000407	4 x 0,75	6,7	28,8	74
64000507	5 x 0,75	7,4	36,0	91
64000707	7 x 0,75	8,1	50,4	113
64001207	12 x 0,75	10,9	86,4	187
64001807	18 x 0,75	12,8	129,6	269
64000210	2 x 1,00	6,0	19,2	57
64000310	3 x 1,00	6,3	28,8	68
64000410	4 x 1,00	7,0	38,4	84
64000510	5 x 1,00	7,8	48,0	105

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64000710	7 x 1,00	8,4	67,2	131
64001210	12 x 1,00	11,3	115,2	216
64001810	18 x 1,00	13,5	172,8	318
64000215	2 x 1,50	6,7	28,8	73
64000315	3 x 1,50	7,0	43,2	89
64000415	4 x 1,50	7,9	57,6	112
64000515	5 x 1,50	8,6	72,0	136
64000715	7 x 1,50	9,5	100,8	174
64001215	12 x 1,50	12,7	172,8	287
64001815	18 x 1,50	15,3	259,2	426
64000225	2 x 2,50	8,1	48,0	111
64000325	3 x 2,50	8,6	72,0	137
64000425	4 x 2,50	9,5	96,0	171
64000525	5 x 2,50	10,6	120,0	212
64000725	7 x 2,50	11,7	168,0	272
64001225	12 x 2,50	15,7	288,0	452
64001825	18 x 2,50	18,9	432,0	670

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

## SABIX® BL 438 C FRNC halogen-free flexible control cable with overall copper screen 300/500 V

BL = BlueLine



Marking for SABIX BL 438 C FRNC 64380515: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 438 C FRNC 5x1,5mm<sup>2</sup> - IEC 60332-3-22 - 300/500V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code</b>	black conductors with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	pigeon blue (RAL 5014)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › good EMC characteristics\*
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- › EAC approval

\*Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	core/core 2000 V core/screen 2000 V
<b>Min. bending radius</b> <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b> <i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64380205	2 x 0,50	5,8	25,5	50
64380305	3 x 0,50	6,1	30,4	57
64380405	4 x 0,50	6,6	36,9	69
64380505	5 x 0,50	7,1	43,6	82
64380705	7 x 0,50	7,9	55,0	104
64381205	12 x 0,50	10,2	86,7	165
64381805	18 x 0,50	12,3	140,7	251
64380207	2 x 0,75	6,4	30,5	58
64380307	3 x 0,75	6,7	39,3	69
64380407	4 x 0,75	7,3	48,5	84
64380507	5 x 0,75	8,0	57,5	102
64380707	7 x 0,75	8,7	74,2	126
64381207	12 x 0,75	11,7	140,4	221
64381807	18 x 0,75	13,7	189,4	311
64380210	2 x 1,00	6,6	36,9	65
64380310	3 x 1,00	6,9	48,3	77
64380410	4 x 1,00	7,5	59,7	93
64380510	5 x 1,00	8,4	71,7	118

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64380710	7 x 1,00	9,0	93,4	145
64381210	12 x 1,00	12,1	169,4	250
64381810	18 x 1,00	14,6	258,5	378
64380215	2 x 1,50	7,3	48,5	80
64380315	3 x 1,50	7,6	64,5	97
64380415	4 x 1,50	8,4	81,3	120
64380515	5 x 1,50	9,3	98,2	150
64380715	7 x 1,50	10,1	129,9	188
64381215	12 x 1,50	13,5	232,5	323
64381815	18 x 1,50	16,3	357,1	488
64380225	2 x 2,50	8,7	71,8	115
64380325	3 x 2,50	9,3	98,2	145
64380425	4 x 2,50	10,1	125,1	180
64380525	5 x 2,50	11,5	167,9	237
64380725	7 x 2,50	12,5	222,4	299
64381225	12 x 2,50	16,8	386,4	513
64381825	18 x 2,50	20,1	556,3	753

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

## SABIX® BL 402 FRNC halogen-free flexible wiring cable 0,6/1 kV

BL = BlueLine

SABIX® BL 402 FRNC 1,5mm<sup>2</sup> - IEC 60332-3-22 - 0,6/1kV DNV+GL CE



Marking for SABIX BL 402 FRNC 64020182: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 402 FRNC 1,5mm<sup>2</sup> - IEC 60332-3-22 - 0,6/1kV DNV+GL CE and current meter marking



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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black (RAL 9005)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals: DNV-GL

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
fixed laying:	4 x d
flexible application:	6 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- › bare copper strands
- › alternative colour code

item no.	nominal cross section mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64020175	0,75	2,9	7,2	15
64020180	1,00	3,0	9,6	18
64020182	1,50	3,3	14,4	23
64020184	2,50	3,7	24,0	32
64020186	4,00	4,7	38,4	52
64020187	6,00	5,2	57,6	71
64020188	10,0	6,4	96,0	121
64020189	16,0	7,8	153,6	181
64020190	25,0	9,6	240,0	278
64020191	35,0	11,0	336,0	383
64020192	50,0	12,6	480,0	540
64020193	70,0	14,9	672,0	723
64020194	95,0	17,4	912,0	980
64020195	120,0	19,3	1152,0	1210
64020196	150,0	21,2	1440,0	1509
64020197	185,0	23,3	1776,0	1828
64020198	240,0	27,0	2304,0	2447

Other dimensions and colours are possible on request.



Especially for use in shipbuilding industry

## SABIX® BL 408 FRNC halogen-free flexible power cable 0,6/1 kV

BL = BlueLine



Marking for SABIX BL 408 FRNC 64080182: SAB BRÖCKSKES · D-VIERSEN · SABIX BL 408 FRNC 1,5mm<sup>2</sup> - IEC 60332-3-22 - 0,6/1kV **DNV-GL** **CE** and current meter marking

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black (RAL 9005)
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals: DNV-GL

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
fixed laying:	4 x d
flexible application:	6 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	nominal cross section mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64080175	0,75	5,3	7,2	46
64080180	1,00	5,4	9,6	43
64080182	1,50	5,7	14,4	50
64080184	2,50	6,1	24,0	62
64080186	4,00	7,1	38,4	88
64080187	6,00	7,6	57,6	110
64080188	10,0	8,8	96,0	168
64080189	16,0	10,2	153,6	236
64080190	25,0	12,0	240,0	345
64080191	35,0	13,7	336,0	469
64080192	50,0	15,4	480,0	641
64080193	70,0	17,9	672,0	850
64080194	95,0	20,6	912,0	1137
64080195	120,0	22,7	1152,0	1394
64080196	150,0	24,7	1440,0	1708
64080197	185,0	27,0	1776,0	2067
64080198	240,0	31,0	2304,0	2746

Other dimensions and colours are possible on request.



Especially for use in shipbuilding industry

## SABIX® BL 409 C FRNC halogen-free flexible power cable with overall copper screen 0,6/1 kV

BL = BlueLine



Marking for SABIX BL 409 C FRNC 64090186: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 409 C FRNC 4,0mm² - IEC 60332-3-22 - 0,6/1kV DNV+GL CE and current meter marking



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### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black (RAL 9005)
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › good EMC characteristics\*
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- › approvals: DNV-GL

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- › bare copper strands
- › alternative colour code and sheath colour

item no.	n nominal cross section mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64090175	0,75	5,7	21,1	287
64090180	1,00	5,8	23,5	55
64090182	1,50	6,1	28,4	63
64090184	2,50	6,5	39,9	76
64090186	4,00	7,5	57,9	104
64090187	6,00	8,0	77,4	126
64090188	10,0	9,2	122,1	183
64090189	16,0	10,6	182,8	252
64090190	25,0	12,6	294,6	385
64090191	35,0	14,6	421,8	536
64090192	50,0	16,3	578,1	716
64090193	70,0	18,8	784,0	935
64090194	95,0	21,5	1050,8	1241
64090195	120,0	23,5	1318,2	1512
64090196	150,0	25,6	1610,8	1835
64090197	185,0	27,9	1352,1	2200
64090198	240,0	31,9	2508,6	2899

Other dimensions and colours are possible on request.



Especially for use in shipbuilding industry



## SABIX® BL 410 FRNC halogen-free flexible power cable 0,6/1 kV

BL = BlueLine



Marking for SABIX BL 410 FRNC 64101215: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 410 FRNC 12x1,5mm<sup>2</sup> - IEC 60332-3-22 - 0,6/1kV DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code</b>	black conductors with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Sheath:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- › halogen-free
- › asbestos-free
- › no flame propagation
- › flame retardant and self-extinguishing
- › flexible
- › for applications  
acc. to Hong Kong Convention  
ingredients tested acc. to the requirements  
of the Hong Kong Convention (2009) of the IMO
- › approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- › EAC approval

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
fixed laying:	4 x d
flexible application:	6 x d
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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### Possible on request:



- › bare copper strands
- › alternative colour code  
and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64100215	2 x 1,50	8,9	28,8	120
64100315	3 x 1,50	9,4	43,2	137
64100415	4 x 1,50	10,2	57,6	164
64100515	5 x 1,50	11,4	72,0	205
64100715	7 x 1,50	12,4	100,8	250
64101015	10 x 1,50	15,9	144,0	349
64101215	12 x 1,50	16,6	172,8	407
64101415	14 x 1,50	17,4	201,6	459
64101815	18 x 1,50	19,5	259,2	589
64100225	2 x 2,50	9,7	48,0	151
64100325	3 x 2,50	10,3	72,0	176
64100425	4 x 2,50	11,4	96,0	219
64100525	5 x 2,50	12,5	120,0	266
64100725	7 x 2,50	13,8	168,0	337
64101025	10 x 2,50	17,7	240,0	471
64101225	12 x 2,50	18,2	288,0	540
64101425	14 x 2,50	19,3	336,0	622
64101825	18 x 2,50	21,7	432,0	797
64100240	2 x 4,00	11,9	76,8	230
64100340	3 x 4,00	12,6	115,2	269
64100440	4 x 4,00	14,0	153,6	334

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64100540	5 x 4,00	15,4	192,0	410
64100740	7 x 4,00	17,0	268,8	520
64100260	2 x 6,00	12,9	115,2	287
64100360	3 x 6,00	13,9	172,8	349
64100460	4 x 6,00	15,2	230,4	427
64100560	5 x 6,00	17,0	288,0	535
64100760	7 x 6,00	18,5	403,2	674
64100361	3 x 10,0	16,8	288,0	535
64100461	4 x 10,0	18,4	384,0	659
64100561	5 x 10,0	20,5	480,0	825
64100362	3 x 16,0	20,0	460,8	778
64100462	4 x 16,0	22,1	614,4	974
64100562	5 x 16,0	24,7	768,0	1218
64100363	3 x 25,0	24,1	720,0	1158
64100463	4 x 25,0	26,7	960,0	1453
64100563	5 x 25,0	29,9	1200,0	1828
64100364	3 x 35,0	27,5	1008,0	1567
64100464	4 x 35,0	30,4	1344,0	1968
64100365	3 x 50,0	31,1	1440,0	2171
64100465	4 x 50,0	34,3	1920,0	2738

Other dimensions and colours are possible on request.



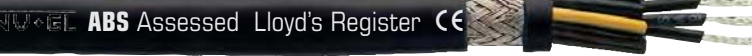
Especially for use  
in shipbuilding industry

# HALOGEN-FREE CABLES

0,6/1 kV

## SABIX® BL 412 C FRNC halogen-free flexible power cable with overall copper screen 0,6/1 kV

BL = BlueLine



Marking for SABIX BL 412 C FRNC 64121215: SAB BRÖCKSKES · D-VIERSEN ·  
SABIX BL 412 C FRNC 12x1,5mm<sup>2</sup> - IEC 60332-3-22 - 0,6/1kV DNV-GL ABS Assessed Lloyd's Register CE and current meter marking



A  
74

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Colour code:</b>	black conductors with consecutive numbers acc. to EN 50334 green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Screen:</b>	tinned copper braiding
<b>Sheath:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- )] halogen-free
- )] asbestos-free
- )] good EMC characteristics\*
- )] no flame propagation
- )] flame retardant and self-extinguishing
- )] flexible
- )] for applications acc. to Hong Kong Convention  
ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- )] approvals:  
DNV-GL  
Lloyd's Register  
American Bureau of Shipping  
Registro Italiano Navale  
Russian Maritime Register of Shipping
- )] EAC approval

\*Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0,6/1 kV
<b>Testing voltage:</b>	core/core 4000 V core/screen 4000 V
<b>Min. bending radius</b> <i>fixed laying</i>	5 x d
<i>flexible application:</i>	10 x d
<b>Temperature range</b> <i>fixed laying</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 60684-2
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 60754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

### Possible on request:



- )] bare copper strands
- )] alternative colour code and sheath colour

item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64120215	2 x 1,50	9,4	55,0	114
64120315	3 x 1,50	9,9	72,2	141
64120415	4 x 1,50	10,9	105,2	181
64120515	5 x 1,50	12,1	126,2	227
64120715	7 x 1,50	13,1	160,4	275
64121015	10 x 1,50	17,0	253,8	416
64121215	12 x 1,50	17,5	283,2	465
64121415	14 x 1,50	18,3	313,1	516
64121815	18 x 1,50	20,4	384,8	654
64120225	2 x 2,50	10,2	77,1	140
64120325	3 x 2,50	11,0	119,6	189
64120425	4 x 2,50	12,1	150,2	236
64120525	5 x 2,50	13,2	179,6	287
64120725	7 x 2,50	14,7	253,9	376
64121025	10 x 2,50	18,6	351,9	525
64121225	12 x 2,50	19,1	411,8	600
64121425	14 x 2,50	20,2	461,2	683
64121825	18 x 2,50	22,6	572,7	865

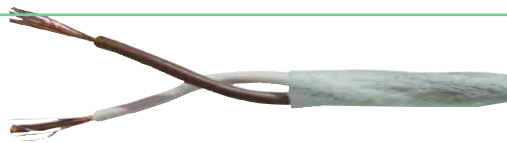
item no.	no. of cores x cross section n x mm <sup>2</sup>	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
64120240	2 x 4,00	12,6	131,3	222
64120340	3 x 4,00	13,3	174,9	275
64120440	4 x 4,00	14,9	239,6	361
64120540	5 x 4,00	16,3	290,3	444
64120740	7 x 4,00	17,9	379,7	560
64120260	2 x 6,00	13,8	175,0	278
64120360	3 x 6,00	14,8	258,8	366
64120460	4 x 6,00	16,1	328,4	453
64120560	5 x 6,00	17,9	398,9	568
64120760	7 x 6,00	19,6	527,5	723
64120361	3 x 10,0	17,7	398,7	542
64120461	4 x 10,0	19,5	508,1	688
64120561	5 x 10,0	21,4	618,8	853
64120362	3 x 16,0	20,9	598,7	769
64120462	4 x 16,0	23,0	755,9	970
64120562	5 x 16,0	25,6	938,8	1232
64120363	3 x 25,0	25,2	889,8	1126
64120463	4 x 25,0	27,8	1135,9	1431
64120563	5 x 25,0	30,8	1400,7	1805
64120364	3 x 35,0	28,4	1185,4	1475
64120464	4 x 35,0	31,3	1546,6	1899
64120365	3 x 50,0	32,0	1645,3	2029
64120465	4 x 50,0	35,2	2149,1	2619

Other dimensions and colours are possible on request.



Especially for use  
in shipbuilding industry

## SABIX® SD 705 FRNC C1 Continuously flexible halogen-free data cable with improved fire performance



D-VIERSEN · SABIX SD 705 FRNC C1 2 x 0,25

Marking for SABIX SD 705 FRNC C1 67050225:  
SAB BRÖCKSKES · D-VIERSEN · SABIX SD 705 FRNC C1 2 x 0,25 mm<sup>2</sup> CE

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75

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 halogen-free
- 】 continuously flexible
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 oil and fuel resistant
- 】 good acid and alkalines resistance
- 】 NF C 32-070 C1
- 】 EAC approval

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12,5 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67050214	2 x 0,14	0,11	3,2	2,7	14
67050314	3 x 0,14	0,11	3,4	4,0	17
67050514	5 x 0,14	0,11	3,9	6,7	24
67050714	7 x 0,14	0,11	4,5	9,4	32
67050225	2 x 0,25	0,11	3,5	4,8	18
67050325	3 x 0,25	0,11	3,7	7,2	21
67050425	4 x 0,25	0,11	4,0	9,6	26
67051025	10 x 0,25	0,11	6,1	24,0	60
67051225	12 x 0,25	0,11	6,3	28,8	64

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67051425	14 x 0,25	0,11	6,6	33,6	72
67051825	18 x 0,25	0,11	7,3	43,2	90
67052525	25 x 0,25	0,11	8,7	60,0	117
67050234	2 x 0,34	0,11	4,1	6,5	24
67050534	5 x 0,34	0,11	5,3	16,3	43
67050734	7 x 0,34	0,11	6,3	22,8	62
67051034	10 x 0,34	0,11	7,3	32,6	76
67052534	25 x 0,34	0,11	11,1	81,6	180

Other dimensions and colours are possible on request.



For flexible applications  
in areas with highest  
fire protection requirements  
e.g. power plant technology,  
railway applications

## SABIX® SD 715 C FRNC C1 Continuously flexible halogen-free data cable with improved fire performance and overall copper screen

EN · SABIX SD 715 C FRNC C1 7 x 0,25 mm<sup>2</sup> CE



Marking for SABIX SD 715 C FRNC C1 6715725:  
SAB BRÖCKSKES · D-VIERSEN · SABIX SD 715 C FRNC C1 7 x 0,25 mm<sup>2</sup> CE

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76

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding, optical coverage ≥ 85%
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 halogen-free
- 】 continuously flexible
- 】 good EMC characteristics\*
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 oil and fuel resistant
- 】 good acid and alkalines resistance
- 】 NF C 32-070 C1
- 】 EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67150214	2 x 0,14	0,11	3,7	13,5	22
67150314	3 x 0,14	0,11	3,9	15,0	25
67151214	12 x 0,14	0,11	6,9	38,3	69
67151814	18 x 0,14	0,11	7,4	49,4	88
67152514	25 x 0,14	0,11	8,9	62,8	119
67150225	2 x 0,25	0,11	4,0	15,8	25
67150425	4 x 0,25	0,11	4,5	24,7	36
67150525	5 x 0,25	0,11	5,2	27,6	46
67150625	6 x 0,25	0,11	6,2	33,0	63
67150725	7 x 0,25	0,11	6,6	38,1	72
67150825	8 x 0,25	0,11	7,1	41,6	81
67151225	12 x 0,25	0,11	7,8	54,6	96
67151825	18 x 0,25	0,11	9,6	89,7	153

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67152525	25 x 0,25	0,11	9,9	110,4	183
67150434	4 x 0,34	0,11	5,4	28,9	48
67150534	5 x 0,34	0,11	6,2	35,7	63
67150734	7 x 0,34	0,11	7,0	45,1	81
67151234	12 x 0,34	0,11	8,5	65,0	117
67150250	2 x 0,50	0,11	5,2	25,2	43
67150350	3 x 0,50	0,11	5,4	30,3	49
67150450	4 x 0,50	0,11	6,1	38,5	63
67150550	5 x 0,50	0,11	6,6	45,3	75
67150475	4 x 0,75	0,11	6,8	50,8	79
67150575	5 x 0,75	0,11	7,4	57,7	94
67150775	7 x 0,75	0,11	9,2	79,9	141
67150785	7 x 1,50	0,11	10,6	153,3	218

Other dimensions and colours are possible on request.



For flexible applications  
in areas with highest  
fire protection requirements  
e.g. power plant technology,  
railway applications

## SABIX® SD 745 C FRNC C1 TP Continuously flexible halogen-free paired data cable with improved fire performance and overall copper screen



VIERSEN · SABIX SD 745 C FRNC C1 TP 2 x 2 x 0,50

Marking for SABIX SD 745 C FRNC C1 TP 67450250:  
SAB BRÖCKSKES · D-VIERSEN · SABIX SD 745 C FRNC C1 TP 2 x 2 x 0,50 mm<sup>2</sup> CE

Construction:	
Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:	
]	halogen-free
]	continuously flexible
]	good EMC characteristics*
]	no flame propagation
]	flame retardant and self-extinguishing
]	oil and fuel resistant
]	good acid and alkalines resistance
]	NF C 32-070 C1
]	EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:	
Peak operating voltage:	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	15 x d
Radiation resistance:	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosiveness of conflagration gases:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67450214	2 x 2 x 0,14	0,11	4,9	18,6	37
67450414	4 x 2 x 0,14	0,11	6,2	27,5	55
67450514	5 x 2 x 0,14	0,11	6,7	32,4	65
67450614	6 x 2 x 0,14	0,11	6,9	35,3	72
67451014	10 x 2 x 0,14	0,11	8,7	52,0	106
67451414	14 x 2 x 0,14	0,11	10,2	83,4	148
67450225	2 x 2 x 0,25	0,11	5,4	23,3	45
67450425	4 x 2 x 0,25	0,11	6,9	38,4	69
67450625	6 x 2 x 0,25	0,11	7,6	50,0	91
67450725	7 x 2 x 0,25	0,11	7,9	53,4	103
67450825	8 x 2 x 0,25	0,11	9,3	63,9	133
67451025	10 x 2 x 0,25	0,11	9,8	88,3	147
67451225	12 x 2 x 0,25	0,11	10,7	105,5	172
67451425	14 x 2 x 0,25	0,11	11,3	118,1	191

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67451625	16 x 2 x 0,25	0,11	11,7	122,5	205
67450734	7 x 2 x 0,34	0,11	10,0	87,6	159
67451034	10 x 2 x 0,34	0,11	11,6	110,9	191
67451834	18 x 2 x 0,34	0,11	15,1	212,8	348
67450250	2 x 2 x 0,50	0,11	7,1	38,6	74
67450350	3 x 2 x 0,50	0,11	7,8	51,0	90
67450450	4 x 2 x 0,50	0,11	9,3	64,1	119
67451050	10 x 2 x 0,50	0,11	13,3	155,1	263
67451850	18 x 2 x 0,50	0,11	17,1	279,3	447
67452550	25 x 2 x 0,50	0,11	19,4	358,2	568
67450275	2 x 2 x 0,75	0,11	8,0	51,3	92
67450475	4 x 2 x 0,75	0,11	10,8	103,4	171
67450875	8 x 2 x 0,75	0,11	15,0	186,4	335
67451075	10 x 2 x 0,75	0,11	15,3	237,0	361

Other dimensions and colours are possible on request.

For flexible applications  
in areas with highest  
fire protection requirements  
e.g. power plant technology,  
railway applications

## SABIX® S 710 FRNC C1 Continuously flexible halogen-free control cable with improved fire performance

BRÖCKSKES · D-VIERSEN · SABIX S 710 FRNC C1 4 x 1,5 mm<sup>2</sup> CE



Marking for SABIX S 710 FRNC C1 67100415:  
SAB BRÖCKSKES · D-VIERSEN · SABIX S 710 FRNC C1 4 x 1,5 mm<sup>2</sup> CE

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78

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- 】 halogen-free
- 】 continuously flexible
- 】 no flame propagation
- 】 flame retardant and self-extinguishing
- 】 oil and fuel resistant
- 】 good acid and alkalines resistance
- 】 NF C 32-070 C1
- 】 EAC approval

### Technical data:

<b>Nominal voltage:</b>	0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	12,5 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67100205	2 x 0,50	0,16	6,4	9,6	62
67100505	5 x 0,50	0,16	8,2	24,0	97
67100507	5 x 0,75	0,16	9,0	36,0	121
67100707	7 x 0,75	0,16	10,7	50,4	170
67100310	3 x 1,00	0,16	7,9	28,8	92
67100510	5 x 1,00	0,16	9,3	48,0	137
67100710	7 x 1,00	0,16	11,1	67,2	193
67101210	12 x 1,00	0,16	13,6	115,2	284
67101810	18 x 1,00	0,16	16,1	172,8	406
67100215	2 x 1,50	0,16	8,6	28,8	112
67100315	3 x 1,50	0,16	9,2	43,2	127
67100415	4 x 1,50	0,16	9,7	57,6	151
67100515	5 x 1,50	0,16	10,9	72,0	189
67100715	7 x 1,50	0,16	13,1	100,8	276

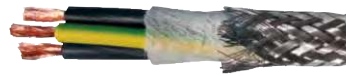
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67101215	12 x 1,50	0,16	15,8	172,8	390
67101815	18 x 1,50	0,16	18,7	259,2	562
67102415	24 x 1,50	0,16	21,8	345,6	721
67102515	25 x 1,50	0,16	22,1	360,0	735
67100325	3 x 2,50	0,16	10,8	72,0	183
67100425	4 x 2,50	0,16	12,1	69,0	240
67100525	5 x 2,50	0,16	13,5	120,0	294
67100725	7 x 2,50	0,16	15,8	168,0	408
67101225	12 x 2,50	0,16	19,2	288,0	584
67100440	4 x 4,00	0,16	13,5	153,6	321
67100460	4 x 6,00	0,21	15,4	230,4	427
67100461	4 x 10,0	0,21	19,2	384,0	769
67100462	4 x 16,0	0,21	22,1	614,4	1005
67100465	4 x 50,0	0,31	35,9	1920,0	2747

Other dimensions and colours are possible on request.



For flexible applications  
in areas with highest  
fire protection requirements  
e.g. power plant technology,  
railway applications

## SABIX® S 712 C FRNC C1 Continuously flexible halogen-free control cable with improved fire performance and overall copper screen



BRÖCKSKES · D-VIERSEN · SABIX S 712 C FRNC C1 3 x 1,5 mm<sup>2</sup>

Marking for SABIX S 712 C FRNC C1 67120315:  
SAB BRÖCKSKES · D-VIERSEN · SABIX S 712 C FRNC C1 3 x 1,5 mm<sup>2</sup> CE

Construction:	
<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Wrapping:</b>	non-woven tape
<b>Stranding:</b>	in layers
<b>Screen:</b>	tinned copper braiding, optical coverage ≥ 85%
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

Outstanding features:	
]	halogen-free
]	continuously flexible
]	good EMC characteristics*
]	no flame propagation
]	flame retardant and self-extinguishing
]	oil and fuel resistant
]	good acid and alkalines resistance
]	NF C 32-070 C1
]	EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:	
<b>Nominal voltage:</b>	0,6/1 kV
<b>Testing voltage:</b>	core/core 4000 V core/screen 2000 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67120205	2 x 0,50	0,16	7,1	29,2	80
67120505	5 x 0,50	0,16	8,8	49,9	121
67120507	5 x 0,75	0,16	9,6	65,4	147
67120707	7 x 0,75	0,16	11,4	103,2	212
67120510	5 x 1,00	0,16	9,8	77,6	162
67120710	7 x 1,00	0,16	12,2	123,6	250
67121210	12 x 1,00	0,16	14,3	184,0	337
67121810	18 x 1,00	0,16	17,0	285,9	491
67120215	2 x 1,50	0,16	8,9	55,7	131
67120315	3 x 1,50	0,16	9,5	72,5	149
67120415	4 x 1,50	0,16	10,5	105,7	192
67120515	5 x 1,50	0,16	12,0	127,9	246
67121215	12 x 1,50	0,16	16,7	285,0	475
67121815	18 x 1,50	0,16	19,6	391,5	661

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67122515	25 x 1,50	0,16	23,1	527,6	865
67120225	2 x 2,50	0,16	10,9	101,0	201
67120325	3 x 2,50	0,16	11,5	127,7	227
67120425	4 x 2,50	0,16	12,8	155,5	287
67120525	5 x 2,50	0,16	14,2	188,6	347
67121225	12 x 2,50	0,16	20,2	431,5	696
67120440	4 x 4,00	0,16	14,2	222,2	374
67120540	5 x 4,00	0,16	16,1	302,5	481
67120740	7 x 4,00	0,16	18,9	395,6	652
67120260	2 x 6,00	0,21	14,0	183,4	340
67120460	4 x 6,00	0,21	16,6	339,6	513
67120462	4 x 16,0	0,21	23,1	775,6	1131
67120463	4 x 25,0	0,21	27,2	1127,0	1615
67120464	4 x 35,0	0,21	30,9	1541,2	2171

Other dimensions and colours are possible on request.

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