


Halogen-free Cables



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| ■ SABIX® A 280 FRNC X | Control cable with numbered cores, cross linked type tested acc. to EN 45545-2 | A/55 |
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NEW

NEW

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

TP: Twisted Pairs

HALOGEN-FREE CABLES

Content



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

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SABIX® BlueLine - Cables for marine use

SABIX® BlueLine Data

| | | |
|----------------------------|--|------|
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| ■ SABIX® BL 445 C FRNC TP | SABIX® BlueLine Data - flexible paired data cable with overall copper screen | A/66 |
| ■ SABIX® BL 446 C FRNC FTP | SABIX® BlueLine Data - flexible data cable, paired with aluminum pair screen and overall copper screen | A/67 |

NEW

NEW

SABIX® BlueLine Control

| | | |
|------------------------|---|------|
| ■ SABIX® BL 400 FRNC | SABIX® BlueLine Control - flexible control cable 300/500 V | A/68 |
| ■ SABIX® BL 438 C FRNC | SABIX® BlueLine Control - flexible control cable with overall copper screen 300/500 V | A/69 |

SABIX® BlueLine Power

| | | |
|------------------------|--|------|
| ■ SABIX® BL 402 FRNC | SABIX® BlueLine Power - flexible wiring cable 0.6/1 kV | A/70 |
| ■ SABIX® BL 408 FRNC | SABIX® BlueLine Power - flexible power cable 0.6/1 kV | A/71 |
| ■ 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:

| | |
|---|--|
| SABIX® A 146 S SABIX® A 146 FRNC SABIX® A 156 S SABIX® A 156 FRNC SABIX® A 170 TWÖ SABIX® A 166 FRNC SABIX® A 147 FRNC SABIX® A 157 FRNC | 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 |
| SABIX® A 100 HT SABIX® A 101 HT | 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:

| | |
|---|--|
| 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 C | Automation systems, car manufacturing industry, machine construction, railway technologies |
| SABIX® A 238 S SABIX® A 238 FRNC | Transporting systems, construction of industrial plants, automation technologies |
| SABIX® A 260 PUR | Automation technologies, steel and iron industries, car manufacturing industry, machine construction, refrigeration and climate technologies, car wash, rising platforms for trucks |
| SABIX® A 130 HT | 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 |
| SABIX® A 810 S SABIX® A 810 FRNC SABIX® A 813 S SABIX® A 812 C FRNC | Automation technologies, car manufacturing industry, machine construction, power supply cable between frequency converter and servo motor |
| SABIX® CC 625 FRNC M | Automation technologies, car manufacturing industry, machine construction, railway technologies |
| SABIX® CC 625 S FRNC M SABIX® CC 625 SH FRNC M | Transporting systems, construction of industrial plants, automation technologies |
| SABIX® R 600 FRNC SABIX® R 638 FRNC | SABIX® Rail Control, control cable for the internal wiring of rail vehicles acc. to EN 45545-2 |
| SABIX® R flex | 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 |
| SABIX® A 280 FRNC X SABIX® A 285 FRNC X | Control cable for the internal wiring of rail vehicles acc. to EN 45545-2 |
| SABIX® A 280 FRNC X (FR) | 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:

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

| | |
|---|----------------------------------|
| 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 | BlueLine Data - data cable |
| SABIX® BL 400 FRNC SABIX® BL 438 C FRNC | BlueLine Control - control cable |
| SABIX® BL 402 FRNC SABIX® BL 408 FRNC SABIX® BL 409 C FRNC SABIX® BL 410 FRNC SABIX® BL 412 C FRNC | 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.

| | |
|---|--|
| SABIX® SD 705 FRNC C1 SABIX® SD 715 C FRNC C1 SABIX® SD 745 C FRNC C1 TP | 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 |
| SABIX® S 710 FRNC C1 SABIX® S 712 C FRNC C1 | 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 ₀ 300 V | | | | | | | | | | | | | | | | | | | | | |
| | Nominal voltage U ₀ /U 300/500 V Testing voltage 2000 V | | ● | ● | | | | | ● | | ● | ● | | | | | | | | | | ● |
| | Nominal voltage U ₀ /U 450/750 V Testing voltage 2500 V | | | | ● | ● | | | | ● | | | | | | | | ● | | | | |
| | Nominal voltage U ₀ /U 450/750 V Testing voltage 3000 V | | | | | | | | | | | | | | | | ● | | | | | |
| | Nominal voltage U ₀ /U 0,6/1 kV Testing voltage 3000 V | | | | | | | ● | | | | | | | | | | | | | | |
| | Control and connection cable Nominal voltage U ₀ /U 300/500 V Testing voltage 3000 V | | | | | | | | | | | | ● | ● | ● | ● | | | | ● | ● | ● |
| | Nominal voltage 600 V (UL) | | | | | | | | ● | | | | | | | | | | | | | |
| | Nominal voltage 1000 V (UL) | | | | | | | | | ● | | | | | | | | | | | | |
| | Motor connection cable Nominal voltage U ₀ /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

Selection table

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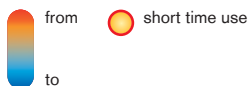
| | | Cable type | SABIX® CC 625 FRNC M | SABIX® CC 625 S FRNC M | SABIX® CC 625 SH FRNC M | SABIX® A 810 S | SABIX® A 810 FRNC | SABIX® A 813 S | SABIX® A 812 C FRNC | SABIX® D 305 S | SABIX® D 305 FRNC | SABIX® D 315 S | SABIX® D 315 FRNC | SABIX® D 320 FRNC C1 | SABIX® D 345 S TP | SABIX® D 345 FRNC 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 | | | | | | | | | | | | | | | ● | ● | | | ● | |
| 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 ₀ 300 V | | | | | | | | | | | | | | | | ● | | | | |
| | Nominal voltage U ₀ /U 300/500 V Testing voltage 2000 V | | | | | | | | | | | | | | | | | ● | ● | ● | |
| | Nominal voltage U ₀ /U 450/750 V Testing voltage 2500 V | | | | | | | | | | | | | | | | | | | | |
| | Nominal voltage U ₀ /U 450/750 V Testing voltage 3000 V | | | | | | | | | | | | | | | | | | | | |
| | Nominal voltage U ₀ /U 0,6/1 kV Testing voltage 3000 V | | | | | | | | | | | | | | | | | | | | |
| | Control and connection cable Nominal voltage U ₀ /U 300/500 V Testing voltage 3000 V | ● | ● | ● | | | | | | | | | | | | | | | | | |
| | Nominal voltage 600 V (UL) | ● | ● | ● | | | | | | | | | | | | | | | | | |
| | Nominal voltage 1000 V (UL) | | | | | | | | | | | | | | | | | | | | |
| | Motor connection cable Nominal voltage U ₀ /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 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● |
| Special features | UL acc. to AWM Style | ● | ● | ● | | | | | | | | | | | | | | | | | |
| | 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

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 ₀ /U 300/500 V | | ● | | ● | ● | | | | ● | ● | ● | ● | |
| | Nominal voltage U ₀ /U 450/750 V | | | ● | | | | | | | | | | |
| | Peak operating voltage: < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = max. 500 V | | | | | | ● | ● | ● | | | | | |



*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 ₀ /U 300/500 V | | | | | | ● | ● | | | | | | |
| | nominal voltage U ₀ /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 ² = max. 350 V ≥ 0,25 mm ² = 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



Marking for SABIX A 146 S 81460150:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 146 S 300/500 V 0,5 mm² CE

A
12

Construction:

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

Outstanding features:

| | |
|------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | very good stripping |
| 100% | flexible |
| 100% | EAC approval |

Technical data:

| | | |
|--|--|---------------------------|
| Nominal voltage: | U ₀ /U 300/500 V | |
| Testing voltage: | 2000 V | |
| Min. bending radius: | 7,5 x d | |
| For one single bend: | 5 x d | |
| Temperature range | SABIX® A 146 S: | SABIX® A 146 FRNC: |
| <i>fixed laying:</i> | -30/+70 °C | -40/+90 °C |
| <i>flexible application:</i> | -20/+70 °C | -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 | |
| 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: | SABIX® A 146 FRNC: good | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 | |

SABIX® A 146 S

| item no. | nominal cross-section mm ² | 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 ² | 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:

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

Outstanding features:

| | |
|------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | very good stripping |
| 100% | flexible |
| 100% | EAC approval |

Technical data:

| | | |
|--|---|---------------------------|
| Nominal voltage: | U ₀ /U 450/750 V | |
| Testing voltage: | 2500 V | |
| Min. bending radius: | 7,5 x d | |
| For one single bend: | 5 x d | |
| Temperature range | SABIX® A 156 S: | SABIX® A 156 FRNC: |
| <i>fixed laying:</i> | -30/+70 °C | -40/+90 °C |
| <i>flexible application:</i> | -20/+70 °C | -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 | |
| 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: | SABIX® A 156 FRNC: good | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 | |

SABIX® A 156 S

| item no. | nominal cross-section mm ² | 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 ² | 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



Marking for SABIX A 166 FRNC 61660182:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 166 FRNC 0,6/1 kV 1,5 mm² CE

A
14

Construction:

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | 3000 V |
| Min. bending radius: | 7,5 x d |
| For one single bend: | 5 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+90 °C |
| <i>flexible application:</i> | -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 |
| 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 |

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% very good stripping
- 100% flexible
- 100% EAC approval

| item no. | nominal cross-section mm ² | 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 ² | 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



BRÖCKSKES · D-VIERSEN · SABIX A 147 FRNC 300/500V 0,5 mm² 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 mm² 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: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | UL recognized |
| 100% | EAC approval |

| Technical data: | | |
|---|--|--|
| Voltage UL: | SABIX® A 147 FRNC: 20 - 18 AWG: 600 V | SABIX® A 157 FRNC: 16 AWG - 550 MCM: 1000 V |
| Nominal voltage U ₀ /U: | SABIX® A 147 FRNC: 0,50 - 1,0 mm ² : 300/500 V | SABIX® A 157 FRNC: 1,50 - 300,0 mm ² : 450/750 V |
| Testing voltage: | SABIX® A 147 FRNC: 2000 V | SABIX® A 157 FRNC: 2500 V |
| Min. bending radius: For one single bend: | 7,5 x d 5 x d | |
| Temperature range fixed laying: flexible application: | DIN/VDE: -40/+90 °C -30/+90 °C | UL: 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 ² | 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 ² | 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



BRÖCKSKES · D-VIERSEN · SABIX A 100 HT · 220°C · CE

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

A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% high temperature resistant
- 100% flexible
- 100% EAC approval
- 100% SABIX® A 101 HT: good solderability

Technical data:

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

SABIX® A 100 HT

| item no. | nominal cross-section mm ² | 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* | 10,0 | 0,41 | 7,4 | 96,0 | 121 |
| 7100 .. 89* | 16,0 | 0,41 | 8,4 | 153,6 | 176 |
| 7100 .. 90* | 25,0 | 0,41 | 10,3 | 240,0 | 283 |
| 7100 .. 91* | 35,0 | 0,41 | 11,5 | 336,0 | 385 |
| 7100 .. 92* | 50,0 | 0,41 | 14,2 | 480,0 | 549 |
| 7100 .. 93* | 70,0 | 0,41 | 15,2 | 672,0 | 736 |
| 7100 .. 94* | 95,0 | 0,51 | 18,6 | 912,0 | 1009 |
| 7100 .. 95* | 120,0 | 0,51 | 20,1 | 1152,0 | 1214 |
| 7100 .. 96* | 150,0 | 0,51 | 22,2 | 1440,0 | 1511 |
| 7100 .. 97* | 185,0 | 0,51 | 23,6 | 1776,0 | 1827 |
| 7100 .. 98* | 240,0 | 0,51 | 27,3 | 2304,0 | 2457 |
| 7100 .. 99* | 300,0 | 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 ² | 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* | 10,0 | 0,41 | 7,4 | 96,0 | 121 |
| 7101 .. 89* | 16,0 | 0,41 | 8,4 | 153,6 | 176 |
| 7101 .. 90* | 25,0 | 0,41 | 10,3 | 240,0 | 283 |
| 7101 .. 91* | 35,0 | 0,41 | 11,5 | 336,0 | 385 |
| 7101 .. 92* | 50,0 | 0,41 | 14,2 | 480,0 | 549 |
| 7101 .. 93* | 70,0 | 0,41 | 15,2 | 672,0 | 736 |
| 7101 .. 94* | 95,0 | 0,51 | 18,6 | 912,0 | 1009 |
| 7101 .. 95* | 120,0 | 0,51 | 20,1 | 1152,0 | 1214 |
| 7101 .. 96* | 150,0 | 0,51 | 22,2 | 1440,0 | 1511 |
| 7101 .. 97* | 185,0 | 0,51 | 23,6 | 1776,0 | 1827 |
| 7101 .. 98* | 240,0 | 0,51 | 27,3 | 2304,0 | 2457 |
| 7101 .. 99* | 300,0 | 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:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% very good stripping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -30/+70 °C |
| <i>flexible application:</i> | -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 cores x cross section n x mm ² | 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 ² | 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 mm² CE



Marking for SABIX A 200 FRNC 62001215:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 200 FRNC 12 x 1,5 mm² CE

A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% very flexible
- 100% very good stripping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+85 °C |
| <i>flexible application:</i> | -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 |
| Weather resistance: | 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 ² | 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 ² | 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
19

Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% very good stripping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -30/+70 °C |
| <i>flexible application:</i> | -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 |
| Weather resistance: | 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 ² | 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 |

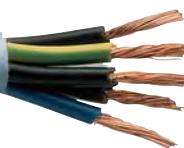
| item no. | no. of cores x cross section n x mm ² | largest single wire Ø mm | outer-Ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 82050715 | 7 x 1,50 | 0,26 | 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 mm² CE



Marking for SABIX A 205 FRNC 62050515:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 205 FRNC 5 x 1,5 mm² CE

A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% very flexible
- 100% very good stripping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+85 °C |
| <i>flexible application:</i> | -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 |
| Weather resistance: | 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 ² | 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 ² | 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: | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | SABIX® |
| Colour code: | black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores |
| Stranding: | in layers |
| Sheath material: | SABIX® |
| Sheath colour: | black (RAL 9005) |

| Outstanding features: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | NF C32-070 C1 |
| 100% | EAC approval |

| Technical data: | |
|--|--|
| Nominal voltage: | U ₀ /U 450/750 V |
| Testing voltage: | 3000 V |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg (100 kGy) |
| Temperature range | |
| <i>fixed laying:</i> | -30/+90 °C |
| <i>flexible application:</i> | -20/+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 C32-070 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 |
| 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 ² | 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 ² | 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 |

Continued on next page

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 mm² CE

Marking for SABIX A 224 FRNC C1 62245005:

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

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| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 mm² CE

Marking for SABIX A 226 C FRNC C1 62261815:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 226 C FRNC C1 18 x 1,5 mm² CE

A
23

Construction:

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

Outstanding features:

| | |
|------|--|
| 100% | good EMC characteristics |
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | NF C32-070 C1 |
| 100% | EAC approval |

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 450/750 V |
| Testing voltage: | 2500 V |
| Min. bending radius | |
| <i>fixed laying:</i> | 5 x d |
| <i>flexible application:</i> | 10 x d |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg (100 kGy) |
| Temperature range | |
| <i>fixed laying:</i> | -30/+90 °C |
| <i>flexible application:</i> | -20/+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 C32-070 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 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

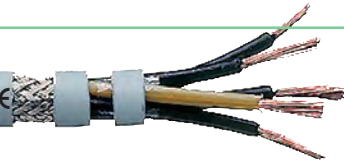
| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 62260205 | 2 x 0,50 | 0,21 | 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 mm² CE



Marking for SABIX A 238 S 82380515:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 238 S 5 x 1,5 mm² CE

A
24

Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% good EMC characteristics*
- 100% very good stripping
- 100% EAC approval

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

Technical data:

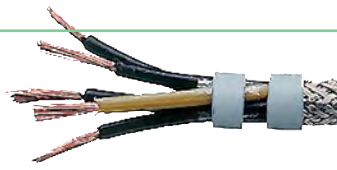
| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V |
| Min. bending radius <i>fixed laying:</i> | 5 x d |
| <i>flexible application:</i> | 10 x d |
| Temperature range <i>fixed laying:</i> | -30/+70 °C |
| <i>flexible application:</i> | -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 + 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 ² | 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 ² | 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

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

| Outstanding features: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | good EMC characteristics* |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | very good stripping |
| 100% | EAC approval |

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

| Technical data: | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2, core/screen 2000 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 |
| Weather resistance: | 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 ² | 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 ² | 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 mm² CE



Marking for SABIX A 260 PUR 52600715:

SAB BRÖCKSKES · D-VIERSEN · SABIX A 260 PUR 7 x 1,5 mm² CE

A
26

Construction:

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

Outstanding features:

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

Technical data:

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

| | |
|-------------------------|--|
| Conductor: | silver-plated copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | SABIX® |
| Colour code: | 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 |
| Stranding: | in layers |
| Sheath material: | SABIX® |
| Sheath colour: | grey (RAL 7015) |

Outstanding features:

| | |
|------|----------------------------|
| 100% | halogen-free |
| 100% | high temperature resistant |
| 100% | flexible |
| 100% | EAC approval |

Technical data:

| | |
|--|---|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+220 °C |
| <i>flexible application:</i> | -25/+220 °C |
| Halogen-free: | acc. to DIN VDE 0472 part 815 + IEC 60754-1 |
| 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 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| 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 ² | 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 ² | 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 mm² 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

A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% UL recognized, CSA approved
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% EAC approval

Technical data:

| | |
|--|---|
| Nominal voltage: | UL/CSA: 600 V DIN VDE: U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | UL: up to +75 °C CSA: up to +80 °C |
| <i>fixed laying:</i> | DIN VDE: -40/+90 °C |
| <i>flexible application:</i> | -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, CSA FT1 |
| 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 | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|---|--------------|-----------------|---------------------|----------------------|
| ▶ 20 AWG (15/32) • 0,50 mm² | | | | |
| 62520205 | 2 | 5,2 | 10,3 | 40 |
| 62520305 | 3 | 5,5 | 15,4 | 47 |
| 62520405 | 4 | 5,9 | 20,5 | 56 |
| 62520505 | 5 | 6,4 | 25,6 | 65 |
| 62520705 | 7 | 7,0 | 35,9 | 83 |
| 62520805 | 8 | 8,2 | 41,0 | 104 |
| 62520905 | 9 | 8,9 | 46,1 | 118 |
| 62521005 | 10 | 9,1 | 51,3 | 120 |
| 62521205 | 12 | 9,3 | 61,5 | 136 |
| 62521405 | 14 | 9,8 | 71,8 | 154 |
| 62521605 | 16 | 10,5 | 82,0 | 177 |
| 62521805 | 18 | 11,1 | 92,3 | 196 |
| 62522505 | 25 | 13,5 | 128,2 | 270 |
| 62523005 | 30 | 13,9 | 153,8 | 310 |
| 62523405 | 34 | 15,2 | 174,3 | 355 |
| 62524005 | 40 | 16,5 | 205,1 | 421 |
| 62524105 | 41 | 16,5 | 210,2 | 428 |
| 62526105 | 61 | 19,3 | 312,8 | 608 |
| ▶ 19 AWG (23/32) • 0,75 mm² | | | | |
| 62520207 | 2 | 5,7 | 14,4 | 48 |
| 62520307 | 3 | 6,0 | 21,6 | 57 |
| 62520407 | 4 | 6,5 | 28,8 | 69 |
| 62520507 | 5 | 7,1 | 36,0 | 81 |
| 62520707 | 7 | 7,9 | 50,4 | 106 |
| 62520807 | 8 | 9,3 | 57,6 | 132 |
| 62520907 | 9 | 9,9 | 64,8 | 145 |
| 62521007 | 10 | 10,1 | 72,0 | 149 |
| 62521207 | 12 | 10,6 | 86,4 | 175 |
| 62521407 | 14 | 11,1 | 100,8 | 197 |
| 62521607 | 16 | 11,9 | 115,2 | 226 |
| 62521807 | 18 | 12,5 | 129,6 | 250 |
| 62522507 | 25 | 15,2 | 180,0 | 344 |
| 62523007 | 30 | 15,7 | 216,0 | 397 |
| 62523407 | 34 | 17,1 | 244,8 | 453 |
| 62524007 | 40 | 18,6 | 288,0 | 535 |
| 62524107 | 41 | 18,6 | 295,2 | 545 |
| 62526107 | 61 | 22,0 | 439,2 | 786 |

| item no. | no. of cores | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|--|--------------|-----------------|---------------------|----------------------|
| 18 AWG (30/32) • 1,00 mm² | | | | |
| 62520210 | 2 | 5,9 | 19,2 | 54 |
| 62520310 | 3 | 6,3 | 28,8 | 66 |
| 62520410 | 4 | 6,8 | 38,4 | 80 |
| 62520510 | 5 | 7,5 | 48,0 | 97 |
| 62520710 | 7 | 8,2 | 67,2 | 124 |
| 62520810 | 8 | 9,6 | 76,8 | 152 |
| 62520910 | 9 | 10,5 | 86,4 | 173 |
| 62521010 | 10 | 10,7 | 96,0 | 179 |
| 62521210 | 12 | 11,0 | 115,2 | 204 |
| 62521410 | 14 | 11,5 | 134,4 | 231 |
| 62521810 | 18 | 13,0 | 172,8 | 294 |
| 62522510 | 25 | 15,8 | 240,0 | 404 |
| 62523010 | 30 | 16,6 | 288,0 | 477 |
| 62523410 | 34 | 18,0 | 326,4 | 543 |
| 62524010 | 40 | 19,5 | 384,0 | 639 |
| 62524110 | 41 | 19,5 | 393,6 | 675 |
| 62526110 | 61 | 22,9 | 585,6 | 931 |
| ▶ 16 AWG (27-29/30) • 1,50 mm² | | | | |
| 62520215 | 2 | 6,5 | 28,8 | 69 |
| 62520315 | 3 | 6,9 | 43,2 | 85 |
| 62520415 | 4 | 7,6 | 57,6 | 105 |
| 62520515 | 5 | 8,3 | 72,0 | 129 |
| 62520715 | 7 | 9,3 | 100,8 | 166 |
| 62520815 | 8 | 10,9 | 115,2 | 202 |
| 62520915 | 9 | 11,8 | 129,6 | 228 |
| 62521015 | 10 | 12,1 | 144,0 | 240 |
| 62521215 | 12 | 12,4 | 172,8 | 274 |
| 62521415 | 14 | 13,0 | 201,6 | 311 |
| 62521815 | 18 | 14,9 | 259,2 | 404 |
| 62522515 | 25 | 18,1 | 360,0 | 558 |
| 62523015 | 30 | 18,7 | 432,0 | 647 |
| 62523415 | 34 | 20,5 | 489,6 | 747 |
| 62524015 | 40 | 22,2 | 576,0 | 874 |
| 62524115 | 41 | 22,2 | 590,4 | 883 |
| 62526115 | 61 | 26,0 | 878,4 | 1281 |

| item no. | no. of cores | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|--|--------------|-----------------|---------------------|----------------------|
| ▶ 14 AWG (46/30) • 2,50 mm² | | | | |
| 62520225 | 2 | 7,8 | 48,0 | 104 |
| 62520325 | 3 | 8,3 | 72,0 | 128 |
| 62520425 | 4 | 9,2 | 96,0 | 161 |
| 62520525 | 5 | 10,1 | 120,0 | 195 |
| 62520725 | 7 | 11,2 | 168,0 | 257 |
| 62520825 | 8 | 13,4 | 192,0 | 316 |
| 62520925 | 9 | 14,3 | 216,0 | 348 |
| 62521025 | 10 | 14,8 | 240,0 | 375 |
| 62521225 | 12 | 15,3 | 288,0 | 431 |
| 62521825 | 18 | 18,2 | 432,0 | 632 |
| 62522525 | 25 | 22,3 | 600,0 | 871 |
| ▶ 12 AWG (52/28) • 4,00 mm² | | | | |
| 62520340 | 3 | 9,7 | 115,2 | 188 |
| 62520440 | 4 | 10,8 | 153,6 | 238 |
| 62520540 | 5 | 12,1 | 192,0 | 295 |
| 62520740 | 7 | 13,4 | 268,8 | 388 |
| ▶ 10 AWG (78/28) • 6,00 mm² | | | | |
| 62520360 | 3 | 11,4 | 172,8 | 271 |
| 62520460 | 4 | 12,7 | 230,4 | 343 |
| 62520560 | 5 | 14,2 | 288,0 | 425 |
| ▶ 8 AWG (77/26) • 10,00 mm² | | | | |
| 62520461 | 4 | 17,2 | 384,0 | 608 |
| 62520561 | 5 | 19,3 | 480,0 | 756 |
| ▶ 6 AWG (119/26) • 16,00 mm² | | | | |
| 62520462 | 4 | 21,1 | 614,4 | 909 |
| ▶ 4 AWG (196/26) • 25,00 mm² | | | | |
| 62520463 | 4 | 26,5 | 960,0 | 1475 |
| ▶ 2 AWG (280/26) • 35,00 mm² | | | | |
| 62520464 | 4 | 30,2 | 1344,0 | 2004 |

Other dimensions and colours are possible on request.





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 mm² 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: | |
|------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | SABIX® |
| Colour code: | black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores |
| Stranding: | in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding |
| Sheath material: | SABIX® |
| Sheath colour: | grey (RAL 7000) |

| Technical data: | |
|---------------------------------------|---|
| Nominal voltage: | UL/CSA: 600 V DIN VDE: U ₀ /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V |
| Min. bending radius | |
| fixed laying: | 5 x d |
| flexible application: | 10 x d |
| Temperature range | UL: up to +75 °C CSA: up to + 80 °C |
| fixed laying: | DIN VDE: -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, CSA FT1 |
| 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 |

| Outstanding features: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | UL recognized, CSA approved |
| 100% | no flame propagation |
| 100% | good EMC characteristics* |
| 100% | flame retardant and self-extinguishing |
| 100% | flexible |
| 100% | 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 |
|---|--------------|-----------------|---------------------|----------------------|
| ▶ 20 AWG (17/32) • 0,50 mm² | | | | |
| 62340205 | 2 | 5,7 | 20,8 | 45 |
| 62340305 | 3 | 6,0 | 26,0 | 54 |
| 62340405 | 4 | 6,4 | 32,2 | 64 |
| 62340505 | 5 | 7,0 | 38,7 | 76 |
| 62340705 | 7 | 7,6 | 50,3 | 96 |
| 62340805 | 8 | 8,9 | 58,4 | 121 |
| 62340905 | 9 | 9,4 | 63,6 | 131 |
| 62341005 | 10 | 9,6 | 70,6 | 136 |
| 62341205 | 12 | 9,8 | 80,9 | 152 |
| 62341405 | 14 | 10,7 | 103,4 | 188 |
| 62341605 | 16 | 11,2 | 113,8 | 206 |
| 62341805 | 18 | 12,0 | 128,3 | 234 |
| 62342505 | 25 | 13,8 | 168,2 | 306 |
| 62343005 | 30 | 15,0 | 198,0 | 361 |
| 62343405 | 34 | 16,3 | 239,4 | 429 |
| 62344005 | 40 | 17,6 | 278,3 | 503 |
| 62344105 | 41 | 17,6 | 283,4 | 514 |
| 62346105 | 61 | 20,2 | 395,6 | 693 |
| ▶ 19 AWG (23/32) • 0,75 mm² | | | | |
| 62340207 | 2 | 6,2 | 25,1 | 52 |
| 62340307 | 3 | 6,5 | 33,3 | 64 |
| 62340407 | 4 | 7,0 | 41,8 | 77 |
| 62340507 | 5 | 7,8 | 50,4 | 94 |
| 62340707 | 7 | 8,4 | 67,8 | 118 |
| 62340807 | 8 | 9,8 | 76,9 | 145 |
| 62340907 | 9 | 10,8 | 100,4 | 181 |
| 62341007 | 10 | 11,0 | 103,7 | 182 |
| 62341207 | 12 | 11,3 | 122,2 | 207 |
| 62341407 | 14 | 12,0 | 136,8 | 235 |
| 62341607 | 16 | 12,6 | 151,5 | 259 |
| 62341807 | 18 | 13,2 | 169,3 | 286 |
| 62342507 | 25 | 16,3 | 245,1 | 416 |
| 62343007 | 30 | 16,8 | 281,4 | 468 |
| 62343407 | 34 | 18,2 | 318,5 | 534 |
| 62344007 | 40 | 19,7 | 370,3 | 625 |
| 62344107 | 41 | 19,7 | 377,5 | 635 |
| 62346107 | 61 | 22,9 | 532,4 | 879 |

| item no. | no. of cores | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|--|--------------|-----------------|---------------------|----------------------|
| ▶ 18 AWG (30/32) • 1,00 mm² | | | | |
| 62340210 | 2 | 6,4 | 30,9 | 58 |
| 62340310 | 3 | 6,8 | 41,8 | 73 |
| 62340410 | 4 | 7,3 | 51,5 | 87 |
| 62340510 | 5 | 8,0 | 63,7 | 107 |
| 62340710 | 7 | 8,9 | 84,6 | 139 |
| 62340810 | 8 | 10,1 | 96,2 | 165 |
| 62340910 | 9 | 11,2 | 118,2 | 200 |
| 62341010 | 10 | 11,4 | 131,8 | 210 |
| 62341210 | 12 | 11,9 | 151,2 | 241 |
| 62341410 | 14 | 12,4 | 170,6 | 268 |
| 62341810 | 18 | 13,9 | 216,7 | 340 |
| 62342510 | 25 | 16,9 | 312,8 | 483 |
| 62343010 | 30 | 17,7 | 361,3 | 556 |
| 62343410 | 34 | 19,1 | 400,7 | 629 |
| 62344010 | 40 | 20,6 | 467,1 | 730 |
| 62344110 | 41 | 20,6 | 476,7 | 742 |
| 62346110 | 61 | 24,0 | 687,8 | 1042 |
| ▶ 16 AWG (27-29/30) • 1,50 mm² | | | | |
| 62340215 | 2 | 7,0 | 41,8 | 71 |
| 62340315 | 3 | 7,5 | 57,5 | 92 |
| 62340415 | 4 | 8,1 | 73,4 | 113 |
| 62340515 | 5 | 9,0 | 89,4 | 139 |
| 62340715 | 7 | 9,8 | 120,1 | 178 |
| 62340815 | 8 | 11,8 | 151,1 | 236 |
| 62340915 | 9 | 12,5 | 165,8 | 259 |
| 62341015 | 10 | 12,8 | 183,6 | 272 |
| 62341215 | 12 | 13,3 | 212,5 | 313 |
| 62341415 | 14 | 13,9 | 245,5 | 354 |
| 62341815 | 18 | 15,8 | 324,1 | 464 |
| 62342515 | 25 | 19,2 | 441,8 | 644 |
| 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 |

| item no. | no. of cores | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|--|--------------|-----------------|---------------------|----------------------|
| ▶ 14 AWG (46/36) • 2,50 mm² | | | | |
| 62340225 | 2 | 8,3 | 63,8 | 101 |
| 62340325 | 3 | 9,0 | 89,4 | 136 |
| 62340425 | 4 | 9,7 | 115,3 | 168 |
| 62340525 | 5 | 11,0 | 151,7 | 220 |
| 62340725 | 7 | 12,1 | 204,1 | 286 |
| 62340825 | 8 | 14,1 | 236,0 | 346 |
| 62340925 | 9 | 15,2 | 260,4 | 386 |
| 62341025 | 10 | 15,7 | 304,8 | 428 |
| 62341225 | 12 | 16,4 | 353,1 | 493 |
| 62341825 | 18 | 19,3 | 513,9 | 712 |
| 62342525 | 25 | 23,4 | 693,5 | 965 |
| ▶ 12 AWG (52/28) • 4,00 mm² | | | | |
| 62340340 | 3 | 10,6 | 146,8 | 205 |
| 62340440 | 4 | 11,5 | 189,5 | 256 |
| 62340540 | 5 | 12,8 | 231,6 | 316 |
| 62340740 | 7 | 14,1 | 312,8 | 412 |
| ▶ 10 AWG (78/28) • 6,00 mm² | | | | |
| 62340360 | 3 | 12,3 | 208,9 | 284 |
| 62340460 | 4 | 13,6 | 270,2 | 362 |
| 62340560 | 5 | 15,1 | 332,3 | 449 |
| ▶ 8 AWG (77/26) • 10,00 mm² | | | | |
| 62340461 | 4 | 18,3 | 457,8 | 636 |
| 62340561 | 5 | 20,2 | 562,9 | 783 |
| ▶ 6 AWG (119/26) • 16,00 mm² | | | | |
| 62340462 | 4 | 22,2 | 706,7 | 927 |
| ▶ 4 AWG (196/26) • 25,00 mm² | | | | |
| 62340463 | 4 | 27,4 | 1074,8 | 1450 |
| ▶ 2 AWG (280/26) • 35,00 mm² | | | | |
| 62340464 | 4 | 31,3 | 1471,8 | 1959 |

Other dimensions and colours are possible on request.



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 mm² 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
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Construction:

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

Outstanding features:

- 100% halogen-free
 - 100% UL recognized, CSA approved
 - 100% no flame propagation
 - 100% good EMC characteristics*
 - 100% flame retardant and self-extinguishing
 - 100% flexible
 - 100% EAC approval
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

| | |
|--|---|
| Nominal voltage: | UL/CSA: 600 V DIN VDE: Uo/U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V |
| Min. bending radius | |
| fixed laying: | 5 x d |
| flexible application: | 10 x d |
| Temperature range | UL: up to +75 °C CSA: up to +80 °C |
| fixed laying: | DIN VDE: -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, CSA FT1 |
| 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 | 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 |
|---|--------------|-----------------|---------------------|----------------------|--|--------------|-----------------|---------------------|----------------------|---|--------------|-----------------|---------------------|----------------------|
| ▶ 20 AWG (17/32) • 0,50 mm² | | | | | ▶ 18 AWG (30/32) • 1,00 mm² | | | | | ▶ 14 AWG (46/30) • 2,50 mm² | | | | |
| 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 | ▶ 12 AWG (52/28) • 4,00 mm² | | | | |
| 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 | ▶ 10 AWG (78/28) • 6,00 mm² | | | | |
| 62576105 | 61 | 22,3 | 405,2 | 813 | ▶ 16 AWG (27-29/30) • 1,50 mm² | | | | | 62570360 | 3 | 14,0 | 216,7 | 377 |
| ▶ 19 AWG (23/32) • 0,75 mm² | | | | | 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 | ▶ 8 AWG (77/26) • 10,00 mm² | | | | |
| 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 | ▶ 6 AWG (119/26) • 16,00 mm² | | | | |
| 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 | ▶ 4 AWG (196/26) • 25,00 mm² | | | | |
| 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 | ▶ 2 AWG (280/26) • 35,00 mm² | | | | |
| 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:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% very good stripping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0.6/1 kV |
| Testing voltage: | 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -30/+70 °C |
| <i>flexible application:</i> | -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 |

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| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 mm² 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 mm² CE

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Construction:

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

Outstanding features:

| | |
|------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | EAC approval |

Technical data:

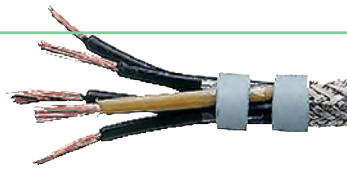
| | |
|--|--|
| Nominal voltage: | U ₀ /U 0.6/1 kV |
| Testing voltage: | 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+85 °C |
| <i>flexible application:</i> | -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 ² | 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 ² | 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 mm² 0,6/1 kV

Marking for SABIX A 813 S 88130515:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 813 S 5 x 1,5 mm² 0,6/1 kV CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% good EMC characteristics*
- 100% very good stripping
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0.6/1 kV |
| Testing voltage: | 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 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> | -30/+70 °C |
| <i>flexible application:</i> | -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 cores x cross section n x mm ² | 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 ² | 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 mm² 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 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0.6/1 kV |
| Testing voltage: | 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 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/+85 °C |
| <i>flexible application:</i> | -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 ² | 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 ² | 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 mm²

Marking for SABIX D 305 S 83053225:
SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm² 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: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | flexible |
| 100% | EAC approval |

| Technical data: | |
|---------------------------------------|--|
| Peak operating voltage: | < 0.25 mm² = max. 350 V ≥ 0.25 mm² = max. 500 V |
| Testing voltage: | 1500 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 cores x cross section n x mm² | 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 mm² | 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 |

Continued on next page



SABIX® D 305 S Flexible data cable

SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm² CE



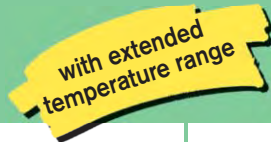
Marking for SABIX D 305 S 83053225:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 S 32 x 0,25 mm² CE

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| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | item no. | no. of cores x cross section n x mm ² | 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 mm² 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: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | easy stripping |
| 100% | anticapacitance |
| 100% | flexible |
| 100% | EAC approval |

| Technical data: | |
|---------------------------------------|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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 ² | 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 ² | 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 mm² CE



Marking for SABIX D 305 FRNC 63053250:

SAB BRÖCKSKES · D-VIERSEN · SABIX D 305 FRNC 32 x 0,5 mm² CE

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| item no. | no. of cores x cross section n x mm ² | 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 ² | 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:

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

Outstanding features:

- 100% halogen-free
 - 100% good EMC characteristics*
 - 100% no flame propagation
 - 100% flame retardant and self-extinguishing
 - 100% 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: | -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 |

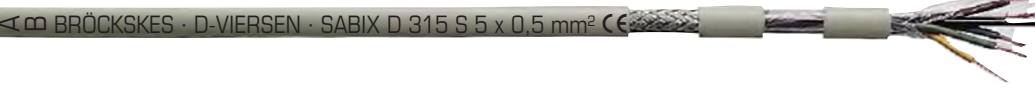
| item no. | no. of cores x cross section n x mm² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|
| 83150214 | 2 x 0,14 | 3,6 | 12,6 | 18 |
| 83150314 | 3 x 0,14 | 3,8 | 14,1 | 21 |
| 83150414 | 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 |

Continued on next page

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 ² | 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 ² | 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:

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

Outstanding features:

- 100% halogen-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% EAC approval

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

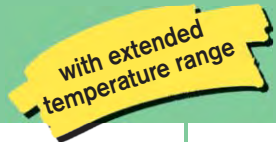
Technical data:

| | |
|--|--|
| 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/+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 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 |

Continued on next page



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 mm² CE



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

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| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|
| 63153034 | 30 x 0,34 | 11,9 | 162,0 | 222 |
| 63153234 | 32 x 0,34 | 12,7 | 171,0 | 247 |
| 63153634 | 36 x 0,34 | 13,2 | 188,0 | 272 |
| 63154034 | 40 x 0,34 | 14,0 | 208,0 | 301 |
| 63154434 | 44 x 0,34 | 14,6 | 223,0 | 319 |
| 63155034 | 50 x 0,34 | 15,8 | 248,0 | 386 |
| 63155234 | 52 x 0,34 | 15,8 | 273,0 | 395 |
| 63156134 | 61 x 0,34 | 16,7 | 316,0 | 366 |
| 63150250 | 2 x 0,50 | 5,2 | 23,6 | 41 |
| 63150350 | 3 x 0,50 | 5,4 | 28,5 | 46 |
| 63150450 | 4 x 0,50 | 5,8 | 35,2 | 54 |
| 63150550 | 5 x 0,50 | 6,7 | 41,7 | 71 |
| 63150750 | 7 x 0,50 | 7,2 | 53,2 | 85 |
| 63150850 | 8 x 0,50 | 8,2 | 62,1 | 103 |
| 63151050 | 10 x 0,50 | 8,8 | 74,5 | 113 |
| 63151250 | 12 x 0,50 | 9,0 | 84,2 | 126 |
| 63151450 | 14 x 0,50 | 9,4 | 93,5 | 139 |
| 63151650 | 16 x 0,50 | 9,9 | 105,9 | 156 |
| 63151850 | 18 x 0,50 | 10,6 | 133,9 | 185 |
| 63152150 | 21 x 0,50 | 11,6 | 154,9 | 220 |
| 63152450 | 24 x 0,50 | 12,6 | 169,7 | 241 |
| 63152750 | 27 x 0,50 | 12,8 | 184,2 | 260 |
| 63153050 | 30 x 0,50 | 13,2 | 203,6 | 283 |
| 63153250 | 32 x 0,50 | 13,7 | 213,5 | 299 |
| 63153650 | 36 x 0,50 | 14,2 | 239,0 | 330 |
| 63154450 | 44 x 0,50 | 16,4 | 309,2 | 422 |
| 63155050 | 50 x 0,50 | 17,0 | 349,7 | 469 |
| 63156150 | 61 x 0,50 | 18,0 | 403,7 | 540 |

| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|
| 63150275 | 2 x 0,75 | 5,8 | 30,4 | 50 |
| 63150375 | 3 x 0,75 | 6,5 | 37,7 | 65 |
| 63150475 | 4 x 0,75 | 7,0 | 48,3 | 78 |
| 63150575 | 5 x 0,75 | 7,5 | 55,8 | 90 |
| 63150775 | 7 x 0,75 | 8,1 | 74,1 | 111 |
| 63150875 | 8 x 0,75 | 9,2 | 83,8 | 132 |
| 63151275 | 12 x 0,75 | 10,5 | 133,9 | 179 |
| 63151475 | 14 x 0,75 | 11,0 | 148,5 | 198 |
| 63151675 | 16 x 0,75 | 11,5 | 169,2 | 224 |
| 63151875 | 18 x 0,75 | 12,4 | 184,0 | 257 |
| 63152175 | 21 x 0,75 | 13,6 | 211,0 | 297 |
| 63152475 | 24 x 0,75 | 14,4 | 239,1 | 324 |
| 63152775 | 27 x 0,75 | 14,7 | 260,9 | 352 |
| 63153075 | 30 x 0,75 | 15,8 | 313,4 | 417 |
| 63153275 | 32 x 0,75 | 16,3 | 328,3 | 440 |
| 63153675 | 36 x 0,75 | 16,9 | 357,8 | 479 |
| 63150280 | 2 x 1,00 | 6,0 | 35,3 | 55 |
| 63150380 | 3 x 1,00 | 6,7 | 46,5 | 73 |
| 63150480 | 4 x 1,00 | 7,2 | 58,0 | 87 |
| 63150580 | 5 x 1,00 | 7,8 | 69,4 | 103 |
| 63150680 | 6 x 1,00 | 8,4 | 81,4 | 119 |
| 63150780 | 7 x 1,00 | 8,4 | 91,0 | 127 |
| 63150285 | 2 x 1,50 | 7,0 | 48,3 | 77 |
| 63150385 | 3 x 1,50 | 7,3 | 62,9 | 90 |
| 63150485 | 4 x 1,50 | 7,9 | 71,1 | 109 |
| 63150585 | 5 x 1,50 | 8,6 | 95,8 | 130 |
| 63150685 | 6 x 1,50 | 9,3 | 112,7 | 152 |
| 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 mm² C1

Marking for SABIX D 320 FRNC C1 63200714:
SAB BRÖCKSKES · D-VIERSEN · SABIX D 320 FRNC C1 7 x 0,14 mm² C1

Construction:

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

Outstanding features:

- 100% halogen-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% NF C32-070 C1
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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 |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg (100 kGy) |
| Temperature range | |
| fixed laying: | -30/+90 °C |
| flexible application: | -20/+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 |
| 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 |
| 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 ² | 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 ² | 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 |

Continued on next page

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



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 mm² CE

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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:

- 100% halogen-free
 - 100% no flame propagation
 - 100% good EMC characteristics*
 - 100% flame retardant and self-extinguishing
 - 100% good transmission rates and crosstalk attenuation
 - 100% EAC approval
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

| | |
|--|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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 ² | 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 ² | 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:

| | |
|-------------------------|--|
| 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:

- 100% halogen-free
- 100% no flame propagation
- 100% good EMC characteristics*
- 100% flame retardant and self-extinguishing
- 100% good transmission rates and crosstalk attenuation
- 100% 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/+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 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:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 100% EAC approval

Technical data:

| | |
|---------------------------------------|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| Temperature range | |
| <i>fixed laying:</i> | -40/+90 °C |
| <i>flexible application:</i> | -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 |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |



Especially for use in rail vehicles

Tested at reference types.

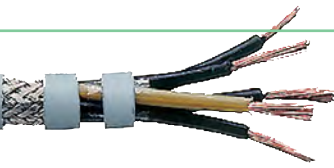
| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 66000205 | 2 x 0,50 | 0,21 | 4,8 | 9,6 | 33 |
| 66000305 | 3 x 0,50 | 0,21 | 5,1 | 14,4 | 38 |
| 66000405 | 4 x 0,50 | 0,21 | 5,5 | 19,2 | 46 |
| 66000505 | 5 x 0,50 | 0,21 | 6,2 | 24,0 | 57 |
| 66000705 | 7 x 0,50 | 0,21 | 6,7 | 33,6 | 69 |
| 66001005 | 10 x 0,50 | 0,21 | 8,6 | 48,0 | 96 |
| 66001205 | 12 x 0,50 | 0,21 | 9,1 | 57,6 | 110 |
| 66001805 | 18 x 0,50 | 0,21 | 10,7 | 86,4 | 169 |
| 66002505 | 25 x 0,50 | 0,21 | 12,9 | 120,0 | 221 |
| 66003205 | 32 x 0,50 | 0,21 | 14,0 | 153,6 | 287 |
| 66004205 | 42 x 0,50 | 0,21 | 15,7 | 201,6 | 365 |
| 66006105 | 61 x 0,50 | 0,21 | 18,5 | 292,8 | 510 |
| 66000207 | 2 x 0,75 | 0,21 | 5,4 | 14,4 | 44 |
| 66000307 | 3 x 0,75 | 0,21 | 5,7 | 21,6 | 51 |
| 66000407 | 4 x 0,75 | 0,21 | 6,4 | 28,8 | 63 |
| 66000507 | 5 x 0,75 | 0,21 | 7,0 | 36,0 | 77 |
| 66000707 | 7 x 0,75 | 0,21 | 7,8 | 50,4 | 96 |
| 66001007 | 10 x 0,75 | 0,21 | 10,0 | 72,0 | 144 |
| 66001207 | 12 x 0,75 | 0,21 | 10,5 | 86,4 | 163 |
| 66001807 | 18 x 0,75 | 0,21 | 12,4 | 129,6 | 230 |
| 66002507 | 25 x 0,75 | 0,21 | 15,1 | 180,0 | 316 |
| 66003207 | 32 x 0,75 | 0,21 | 16,4 | 230,4 | 388 |
| 66004207 | 42 x 0,75 | 0,21 | 18,4 | 302,4 | 515 |
| 66006107 | 61 x 0,75 | 0,21 | 21,6 | 439,2 | 721 |
| 66000210 | 2 x 1,00 | 0,21 | 5,6 | 19,2 | 50 |
| 66000310 | 3 x 1,00 | 0,21 | 6,1 | 28,8 | 62 |
| 66000410 | 4 x 1,00 | 0,21 | 6,6 | 38,4 | 76 |
| 66000510 | 5 x 1,00 | 0,21 | 7,5 | 48,0 | 94 |
| 66000710 | 7 x 1,00 | 0,21 | 8,1 | 67,2 | 117 |
| 66001010 | 10 x 1,00 | 0,21 | 10,6 | 96,0 | 172 |
| 66001210 | 12 x 1,00 | 0,21 | 10,9 | 115,2 | 196 |
| 66001810 | 18 x 1,00 | 0,21 | 12,9 | 172,8 | 280 |
| 66002510 | 25 x 1,00 | 0,21 | 15,7 | 240,0 | 381 |
| 66003210 | 32 x 1,00 | 0,21 | 17,1 | 307,2 | 486 |
| 66004210 | 42 x 1,00 | 0,21 | 19,4 | 403,2 | 616 |
| 66006110 | 61 x 1,00 | 0,21 | 22,7 | 585,6 | 873 |
| 66000215 | 2 x 1,50 | 0,26 | 6,4 | 28,8 | 69 |
| 66000315 | 3 x 1,50 | 0,26 | 6,8 | 43,2 | 81 |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| 66000415 | 4 x 1,50 | 0,26 | 7,6 | 57,6 | 99 |
| 66000515 | 5 x 1,50 | 0,26 | 8,3 | 72,0 | 124 |
| 66000715 | 7 x 1,50 | 0,26 | 9,2 | 100,8 | 170 |
| 66001015 | 10 x 1,50 | 0,26 | 12,0 | 144,0 | 229 |
| 66001215 | 12 x 1,50 | 0,26 | 12,4 | 172,8 | 263 |
| 66001815 | 18 x 1,50 | 0,26 | 14,8 | 259,2 | 289 |
| 66002515 | 25 x 1,50 | 0,26 | 18,0 | 360,0 | 537 |
| 66003215 | 32 x 1,50 | 0,26 | 19,5 | 460,8 | 661 |
| 66004215 | 42 x 1,50 | 0,26 | 22,0 | 604,8 | 867 |
| 66006115 | 61 x 1,50 | 0,26 | 25,8 | 878,4 | 1217 |
| 66000225 | 2 x 2,50 | 0,26 | 7,8 | 48,0 | 105 |
| 66000325 | 3 x 2,50 | 0,26 | 8,9 | 72,0 | 127 |
| 66000425 | 4 x 2,50 | 0,26 | 9,2 | 96,0 | 155 |
| 66000525 | 5 x 2,50 | 0,26 | 10,1 | 120,0 | 199 |
| 66000725 | 7 x 2,50 | 0,26 | 11,2 | 168,0 | 252 |
| 66001025 | 10 x 2,50 | 0,26 | 14,8 | 240,0 | 362 |
| 66001225 | 12 x 2,50 | 0,26 | 15,3 | 288,0 | 416 |
| 66001825 | 18 x 2,50 | 0,26 | 18,2 | 432,0 | 615 |
| 66002525 | 25 x 2,50 | 0,26 | 22,3 | 600,0 | 837 |
| 66000340 | 3 x 4,00 | 0,31 | 9,7 | 115,2 | 185 |
| 66000440 | 4 x 4,00 | 0,31 | 10,8 | 153,6 | 234 |
| 66000540 | 5 x 4,00 | 0,31 | 12,1 | 192,0 | 290 |
| 66000740 | 7 x 4,00 | 0,31 | 13,4 | 268,8 | 375 |
| 66000360 | 3 x 6,00 | 0,31 | 11,4 | 172,8 | 270 |
| 66000460 | 4 x 6,00 | 0,31 | 12,7 | 230,4 | 336 |
| 66000560 | 5 x 6,00 | 0,31 | 14,2 | 288,0 | 415 |
| 66000760 | 7 x 6,00 | 0,31 | 15,7 | 403,2 | 545 |
| 66000461 | 4 x 10,0 | 0,41 | 16,7 | 384,0 | 579 |
| 66000561 | 5 x 10,0 | 0,41 | 18,6 | 480,0 | 740 |
| 66000761 | 7 x 10,0 | 0,41 | 20,7 | 672,0 | 960 |
| 66000462 | 4 x 16,0 | 0,41 | 20,6 | 614,4 | 887 |
| 66000562 | 5 x 16,0 | 0,41 | 23,0 | 768,0 | 1105 |
| 66000762 | 7 x 16,0 | 0,41 | 25,5 | 1075,2 | 1445 |
| 66000463 | 4 x 25,0 | 0,41 | 24,9 | 960,0 | 1388 |
| 66000563 | 5 x 25,0 | 0,41 | 28,1 | 1200,0 | 1750 |
| 66000464 | 4 x 35,0 | 0,41 | 28,8 | 1344,0 | 1927 |
| 66000564 | 5 x 35,0 | 0,41 | 32,5 | 1680,0 | 2413 |

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 mm² CE



Marking for SABIX R 638 FRNC 66380515:
SAB BRÖCKSKES · D-VIERSEN · SABIX R 638 FRNC 5 x 1,5 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 3000 V core/screen 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/+90 °C |
| <i>flexible application:</i> | -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 |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | 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 ² | 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 ² | 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

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 mm²

Marking for SABIX R 605 FRNC 66053250:
SAB BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm² CE

A
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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: | in layers |
| Sheath material: | special SABIX® |
| Sheath colour: | grey (RAL 7032) |

Outstanding features:

| | |
|------|--|
| 100% | halogen-free |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3 |
| 100% | flame retardant acc. to UN/ECE R118 |
| 100% | EAC approval |

Technical data:

| | |
|---------------------------------------|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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/+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. Flame retardant acc. to ISO 6722 (UN/ECE R118) |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | 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 ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|----------|--|-----------------------|---------------------------|----------------------------|
| 66050214 | 2 x 0,14 | 3,1 | 2,7 | 13 | 66051825 | 18 x 0,25 | 7,1 | 43,2 | 80 |
| 66050314 | 3 x 0,14 | 3,3 | 4,0 | 15 | 66052125 | 21 x 0,25 | 7,9 | 50,4 | 96 |
| 66050414 | 4 x 0,14 | 3,5 | 5,4 | 18 | 66052425 | 24 x 0,25 | 8,4 | 57,6 | 104 |
| 66050514 | 5 x 0,14 | 3,8 | 6,7 | 21 | 66052725 | 27 x 0,25 | 8,6 | 64,8 | 114 |
| 66050714 | 7 x 0,14 | 4,1 | 9,4 | 25 | 66053025 | 30 x 0,25 | 8,9 | 72,0 | 125 |
| 66050814 | 8 x 0,14 | 5,0 | 10,8 | 32 | 66053225 | 32 x 0,25 | 9,2 | 76,8 | 132 |
| 66051214 | 12 x 0,14 | 5,3 | 16,1 | 38 | 66053625 | 36 x 0,25 | 10,0 | 86,4 | 156 |
| 66051414 | 14 x 0,14 | 5,5 | 18,8 | 42 | 66054025 | 40 x 0,25 | 10,6 | 96,0 | 173 |
| 66051614 | 16 x 0,14 | 6,0 | 21,5 | 51 | 66054425 | 44 x 0,25 | 11,1 | 105,6 | 184 |
| 66051814 | 18 x 0,14 | 6,3 | 24,2 | 56 | 66055025 | 50 x 0,25 | 11,6 | 120,0 | 204 |
| 66052114 | 21 x 0,14 | 6,9 | 28,2 | 65 | 66056125 | 61 x 0,25 | 12,3 | 146,4 | 241 |
| 66052414 | 24 x 0,14 | 7,3 | 32,3 | 70 | 66050234 | 2 x 0,34 | 4,0 | 6,5 | 24 |
| 66052714 | 27 x 0,14 | 7,7 | 36,3 | 80 | 66050334 | 3 x 0,34 | 4,2 | 9,8 | 27 |
| 66053014 | 30 x 0,14 | 7,9 | 40,3 | 86 | 66050434 | 4 x 0,34 | 4,6 | 13,1 | 33 |
| 66053214 | 32 x 0,14 | 8,2 | 43,0 | 92 | 66050534 | 5 x 0,34 | 5,0 | 16,3 | 40 |
| 66053614 | 36 x 0,14 | 8,5 | 48,4 | 101 | 66050734 | 7 x 0,34 | 5,5 | 22,8 | 49 |
| 66054014 | 40 x 0,14 | 9,1 | 53,8 | 112 | 66050834 | 8 x 0,34 | 6,5 | 26,1 | 63 |
| 66054414 | 44 x 0,14 | 9,5 | 59,1 | 119 | 66051234 | 12 x 0,34 | 7,3 | 39,2 | 80 |
| 66055014 | 50 x 0,14 | 10,3 | 67,2 | 142 | 66051434 | 14 x 0,34 | 7,9 | 45,7 | 94 |
| 66056114 | 61 x 0,14 | 10,9 | 82,0 | 165 | 66051634 | 16 x 0,34 | 8,3 | 52,2 | 106 |
| 66050225 | 2 x 0,25 | 3,4 | 4,8 | 17 | 66051834 | 18 x 0,34 | 8,8 | 58,8 | 117 |
| 66050325 | 3 x 0,25 | 3,6 | 7,2 | 20 | 66052134 | 21 x 0,34 | 10,0 | 68,5 | 146 |
| 66050425 | 4 x 0,25 | 3,9 | 9,6 | 24 | 66052434 | 24 x 0,34 | 10,6 | 78,3 | 157 |
| 66050525 | 5 x 0,25 | 4,2 | 12,0 | 29 | 66052734 | 27 x 0,34 | 10,8 | 88,1 | 172 |
| 66050725 | 7 x 0,25 | 4,6 | 16,8 | 35 | 66053034 | 30 x 0,34 | 11,2 | 97,9 | 187 |
| 66050825 | 8 x 0,25 | 5,2 | 19,2 | 43 | 66053234 | 32 x 0,34 | 11,6 | 104,4 | 199 |
| 66051225 | 12 x 0,25 | 6,1 | 28,8 | 57 | 66053634 | 36 x 0,34 | 12,1 | 117,5 | 220 |
| 66051425 | 14 x 0,25 | 6,4 | 33,6 | 64 | 66054034 | 40 x 0,34 | 12,9 | 130,6 | 244 |
| 66051625 | 16 x 0,25 | 6,7 | 38,4 | 72 | 66054434 | 44 x 0,34 | 13,5 | 143,6 | 261 |

Continued on next page

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 mm² CE



Marking for SABIX R 605 FRNC 66053250:

SAB BRÖCKSKES · D-VIERSEN · SABIX R 605 FRNC 32 x 0,5 mm² CE

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| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|----------|--|-----------------------|---------------------------|----------------------------|
| 66055034 | 50 x 0,34 | 14,5 | 163,2 | 304 | 66051275 | 12 x 0,75 | 9,4 | 86,4 | 142 |
| 66056134 | 61 x 0,34 | 15,4 | 199,1 | 358 | 66051475 | 14 x 0,75 | 10,3 | 100,8 | 170 |
| 66050250 | 2 x 0,50 | 4,3 | 9,6 | 28 | 66051675 | 16 x 0,75 | 10,8 | 115,2 | 192 |
| 66050350 | 3 x 0,50 | 4,5 | 14,4 | 33 | 66051875 | 18 x 0,75 | 11,4 | 129,6 | 213 |
| 66050450 | 4 x 0,50 | 4,9 | 19,2 | 40 | 66052175 | 21 x 0,75 | 12,5 | 151,2 | 248 |
| 66050550 | 5 x 0,50 | 5,4 | 24,0 | 49 | 66052475 | 24 x 0,75 | 13,3 | 172,8 | 270 |
| 66050750 | 7 x 0,50 | 6,1 | 33,6 | 63 | 66052775 | 27 x 0,75 | 13,6 | 194,4 | 297 |
| 66050850 | 8 x 0,50 | 7,1 | 38,4 | 79 | 66053075 | 30 x 0,75 | 14,5 | 216,0 | 339 |
| 66051250 | 12 x 0,50 | 8,1 | 57,6 | 102 | 66053275 | 32 x 0,75 | 15,0 | 230,4 | 360 |
| 66051450 | 14 x 0,50 | 8,5 | 67,2 | 115 | 66053675 | 36 x 0,75 | 15,6 | 259,2 | 399 |
| 66051650 | 16 x 0,50 | 9,0 | 76,8 | 131 | 66054075 | 40 x 0,75 | 16,7 | 288,0 | 443 |
| 66051850 | 18 x 0,50 | 9,5 | 86,4 | 145 | 66054475 | 44 x 0,75 | 17,5 | 316,8 | 475 |
| 66052150 | 21 x 0,50 | 10,9 | 100,8 | 180 | 66055075 | 50 x 0,75 | 18,3 | 360,0 | 530 |
| 66052450 | 24 x 0,50 | 11,5 | 115,2 | 195 | 66056175 | 61 x 0,75 | 19,8 | 439,2 | 648 |
| 66052750 | 27 x 0,50 | 11,7 | 129,6 | 213 | 66050280 | 2 x 1,00 | 5,1 | 19,2 | 43 |
| 66053050 | 30 x 0,50 | 12,1 | 144,0 | 232 | 66050380 | 3 x 1,00 | 5,4 | 28,8 | 53 |
| 66053250 | 32 x 0,50 | 12,6 | 153,6 | 248 | 66050480 | 4 x 1,00 | 6,1 | 38,4 | 68 |
| 66053650 | 36 x 0,50 | 13,1 | 172,8 | 274 | 66050580 | 5 x 1,00 | 6,7 | 48,0 | 82 |
| 66054450 | 44 x 0,50 | 15,1 | 211,2 | 341 | 66050680 | 6 x 1,00 | 7,3 | 57,6 | 97 |
| 66055050 | 50 x 0,50 | 15,7 | 240,0 | 411 | 66050780 | 7 x 1,00 | 7,3 | 67,2 | 104 |
| 66056150 | 61 x 0,50 | 16,7 | 292,8 | 448 | 66050285 | 2 x 1,50 | 5,6 | 28,8 | 55 |
| 66050275 | 2 x 0,75 | 4,9 | 14,4 | 38 | 66050385 | 3 x 1,50 | 6,1 | 43,2 | 71 |
| 66050375 | 3 x 0,75 | 5,2 | 21,6 | 45 | 66050485 | 4 x 1,50 | 6,7 | 57,6 | 87 |
| 66050475 | 4 x 0,75 | 5,9 | 28,8 | 58 | 66050585 | 5 x 1,50 | 7,7 | 72,0 | 113 |
| 66050575 | 5 x 0,75 | 6,4 | 36,0 | 70 | 66050685 | 6 x 1,50 | 8,4 | 86,4 | 134 |
| 66050775 | 7 x 0,75 | 7,0 | 50,4 | 87 | 66050785 | 7 x 1,50 | 8,4 | 100,8 | 144 |
| 66050875 | 8 x 0,75 | 8,3 | 57,6 | 111 | | | | | |

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:

| | |
|-------------------------|---|
| 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: | in layers |
| Wrapping: | foil |
| Screen: | tinned copper braiding |
| Sheath material: | special SABIX® |
| Sheath colour: | grey (RAL 7032) |

Outstanding features:

- 100% halogen-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 100% tested acc. to American ASTM standard
- 100% flame retardant acc. to UN/ECE R118
- 100% EAC approval

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

Technical data:

| | |
|---------------------------------------|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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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| item no. | no. of cores x cross section n x mm ² | 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 mm ² | 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 |

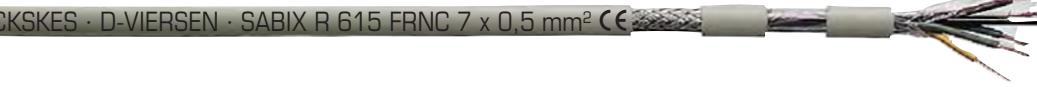
Continued on next page

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

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| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | item no. | no. of cores x cross section n x mm ² | 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

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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:

- 100% halogen-free
- 100% no flame propagation
- 100% good EMC characteristics*
- 100% flame retardant and self-extinguishing
- 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 100% tested acc. to American ASTM standard
- 100% flame retardant acc. to UN/ECE R118
- 100% good transmission rates and crosstalk attenuation
- 100% 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



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 |
|----------|--|------------------------|---------------------------|----------------------------|
| 66450214 | 2 x 2 x 0,14 | 5,2 | 19,1 | 38 |
| 66450314 | 3 x 2 x 0,14 | 5,7 | 23,4 | 44 |
| 66450414 | 4 x 2 x 0,14 | 6,5 | 27,8 | 54 |
| 66450514 | 5 x 2 x 0,14 | 7,0 | 31,9 | 64 |
| 66450614 | 6 x 2 x 0,14 | 7,2 | 36,2 | 71 |
| 66450814 | 8 x 2 x 0,14 | 7,8 | 43,4 | 83 |
| 66451014 | 10 x 2 x 0,14 | 8,9 | 50,6 | 105 |
| 66451214 | 12 x 2 x 0,14 | 9,7 | 58,2 | 121 |
| 66451614 | 16 x 2 x 0,14 | 10,5 | 71,4 | 147 |
| 66451814 | 18 x 2 x 0,14 | 11,1 | 92,8 | 174 |
| 66452414 | 24 x 2 x 0,14 | 12,8 | 114,8 | 223 |
| 66450225 | 2 x 2 x 0,25 | 5,7 | 24,9 | 46 |
| 66450325 | 3 x 2 x 0,25 | 6,4 | 31,4 | 61 |
| 66450425 | 4 x 2 x 0,25 | 7,2 | 39,3 | 72 |
| 66450525 | 5 x 2 x 0,25 | 7,7 | 45,8 | 83 |
| 66450625 | 6 x 2 x 0,25 | 7,9 | 50,7 | 92 |
| 66450825 | 8 x 2 x 0,25 | 9,0 | 62,1 | 119 |
| 66451025 | 10 x 2 x 0,25 | 9,8 | 73,9 | 138 |
| 66451225 | 12 x 2 x 0,25 | 10,9 | 101,9 | 173 |
| 66451625 | 16 x 2 x 0,25 | 11,9 | 126,8 | 213 |
| 66451825 | 18 x 2 x 0,25 | 12,7 | 136,6 | 245 |
| 66452425 | 24 x 2 x 0,25 | 14,2 | 170,3 | 296 |
| 66450234 | 2 x 2 x 0,34 | 6,8 | 31,5 | 63 |
| 66450334 | 3 x 2 x 0,34 | 7,4 | 39,7 | 79 |
| 66450434 | 4 x 2 x 0,34 | 8,8 | 49,8 | 102 |
| 66450534 | 5 x 2 x 0,34 | 9,5 | 58,5 | 121 |
| 66450634 | 6 x 2 x 0,34 | 9,7 | 65,1 | 125 |

| 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 |
|----------|--|------------------------|---------------------------|----------------------------|
| 66450834 | 8 x 2 x 0,34 | 10,6 | 80,7 | 159 |
| 66451234 | 12 x 2 x 0,34 | 13,4 | 133,1 | 248 |
| 66451634 | 16 x 2 x 0,34 | 14,6 | 165,0 | 305 |
| 66451834 | 18 x 2 x 0,34 | 15,1 | 178,3 | 334 |
| 66452434 | 24 x 2 x 0,34 | 17,6 | 255,1 | 449 |
| 66450250 | 2 x 2 x 0,50 | 7,2 | 39,3 | 72 |
| 66450350 | 3 x 2 x 0,50 | 7,9 | 50,1 | 92 |
| 66450450 | 4 x 2 x 0,50 | 9,4 | 64,6 | 119 |
| 66450550 | 5 x 2 x 0,50 | 10,2 | 76,3 | 141 |
| 66450650 | 6 x 2 x 0,50 | 10,4 | 86,0 | 155 |
| 66450850 | 8 x 2 x 0,50 | 11,4 | 126,6 | 179 |
| 66451050 | 10 x 2 x 0,50 | 13,2 | 146,5 | 252 |
| 66451250 | 12 x 2 x 0,50 | 14,4 | 175,6 | 294 |
| 66451650 | 16 x 2 x 0,50 | 16,3 | 241,3 | 380 |
| 66451850 | 18 x 2 x 0,50 | 16,9 | 261,0 | 436 |
| 66452450 | 24 x 2 x 0,50 | 19,0 | 330,4 | 508 |
| 66450275 | 2 x 2 x 0,75 | 8,5 | 52,4 | 102 |
| 66450375 | 3 x 2 x 0,75 | 9,4 | 69,4 | 128 |
| 66450475 | 4 x 2 x 0,75 | 10,9 | 101,9 | 166 |
| 66450575 | 5 x 2 x 0,75 | 11,7 | 121,9 | 201 |
| 66450675 | 6 x 2 x 0,75 | 12,5 | 136,5 | 239 |
| 66450875 | 8 x 2 x 0,75 | 13,7 | 170,1 | 279 |
| 66451275 | 12 x 2 x 0,75 | 17,1 | 261,2 | 419 |
| 66451675 | 16 x 2 x 0,75 | 18,6 | 329,9 | 522 |
| 66451875 | 18 x 2 x 0,75 | 19,3 | 369,3 | 580 |
| 66452475 | 24 x 2 x 0,75 | 21,8 | 469,2 | 714 |

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 mm² CE



Marking for SABIX R flex 66701105:

SAB BRÖCKSKES · D-VIERSEN · SABIX R flex 5G0,75 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% continuously flexible
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% good ozone and UV resistance
- 100% good oil and fuel resistance
- 100% good acid and alkalines resistance
- 100% 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:

| | | |
|---------------------------------------|---|----------|
| Nominal voltage: | U ₀ /U 300/500 V | |
| Testing voltage: | 2000 V | |
| Min. bending radius | 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 |
| Temperature range | | |
| <i>fixed laying:</i> | -50/+90 °C | |
| <i>flexible application:</i> | -40/+90 °C | |
| Halogen-free: | 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. | |
| Fire performance: | 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. | |
| Toxicity: | acc. to DIN EN 50305 | |
| Smoke density: | acc. to DIN EN 61034 | |
| Oil and fuel resistance: | acc. to DIN EN 50264-1 | |
| Flexibility: | very good | |
| Absence of harmful substances: | 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 ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|------------------------------------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| multi-core cable unscreened | | | | | |
| 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 ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------------------------------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| multi-pair cable screened | | | | | |
| 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 ² | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------------------------------|--|--------------------------------|-----------------------|---------------------------|----------------------------|
| multi-core cable screened | | | | | |
| 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

**A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% good ozone resistance
- 100% good oil and chemical resistance
- 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | 5 x d |
| Temperature range during protected, fixed laying: | -40/+125 °C (single conductor) -50/+125 °C (multi-core cable) |
| 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 |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

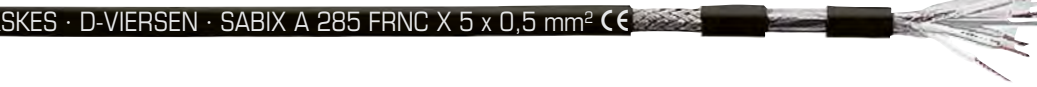


Especially for use in rail vehicles

| 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 mm²:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 285 FRNC X 5 x 0,5 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
 - 100% good EMC characteristics*
 - 100% no flame propagation
 - 100% flame retardant and self-extinguishing
 - 100% good ozone resistance
 - 100% good oil and chemical resistance
 - 100% fulfils fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
 - 100% EAC approval
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | 10 x d |
| Temperature range during protected, fixed laying: | -50/+125 °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 |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Absence of harmful substances: | 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 ² | 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 mm²:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 280 FRNC X (FR) 25 x 0,5 mm² CE

Construction:

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

Outstanding features:

- 100% halogen-free
- 100% no flame propagation
- 100% fire resistant
- 100% flame retardant and self-extinguishing
- 100% good ozone resistance
- 100% good oil and chemical resistance
- 100% fulfils fire protection requirements R15 (EL1A)
acc. to EN 45545-2
for hazard levels HL1-3
- 100% EN 50200 PH 30 / IEC 60331-21

Technical data:

| | |
|--|---|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | 10 x d |
| Temperature range during protected, fixed laying: | -50/+125 °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 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2. |
| Insulation integrity in case of fire: | EN 50200 PH 30 IEC 60331-21 FE 180 |
| Toxicity: | acc. to DIN EN 50305 |
| Smoke density: | acc. to DIN EN 61034 |
| Absence of harmful substances: | 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 mm² | 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 mm² | 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 mm² 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 mm² K CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% flame retardant
- 100% low smoke emission
- 100% smallest outer diameter
- 100% space-saving installation
- 100% light
- 100% abrasion resistant surface
- 100% standardized safety
- 100% accomplishes the fire protection levels 1 - 4 acc. to DIN 5510
- 100% EAC approval

| em no. | no. of conductors | nominal cross-section mm ² | 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:

| | | |
|---|--|--|
| Nominal voltage U₀: | 300 V | |
| Testing voltage: | 4 kV | |
| Temperature range: | +105 °C, with short circuit of 5 sec., +160 °C | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 | |
| Test EN 50306-2 | Requirements | SAB results |
| Voltage test | 2000 V a.c., 5 min. 4800 V d.c., 5 min. | passed 4 |
| Dielectric strength | 4000 V a.c. | passed 4 |
| D.c.-voltage strength | 300 V d.c., 10 d / 85°C current increase ≤ 10% | passed 4 |
| Insulation resistance at 20°C | 0,5 mm ² - 600 MΩ*km | passed 4 |
| Insulation resistance at 90°C | 0,5 mm ² - 0,3 MΩ*km | passed 4 |
| Stripping of insulation | easy | passed 4 |
| Oil resistance IRM 902 at 100°C / 24h | no tears voltage test at 1,5 kV a.c. | passed 4 |
| Fuel resistance IRM 903 at 70°C / 168h | no tears voltage test at 1,5 kV a.c. | passed 4 |
| Resistance against acids N-oxalic acid solution at 23°C / 168h | no tears voltage test at 1,5 kV a.c. | passed 4 |
| Alkaline resistance N-oxalic acid solution at 23°C / 168h | no tears voltage test at 1,5 kV a.c. | passed 4 |
| Hot pressure resistance at 125°C / 4h | impression depth ≤ 50%, voltage test at 1,5 kV a.c. | impression depth 0% passed 4 |
| Dynamic penetration test | 0,5 mm ² - load 70 N | passed 4 |
| Resistance to tear propagation | at -15°C / 3h at +23°C / 3h at +85°C / 3h voltage test at 150 V a.c. | passed 4 |
| Shrinking at 150°C | < 1,5 mm | passed 4 |
| Blocking of conductors | at 150°C / 6h no adhesion | passed 4 |
| Cold bend test | at -40°C | passed 4 |
| Abrasion resistance | 0,5 mm ² - load 7 N | passed 4 |
| Elasticity | | passed 4 |
| Ozone resistance | method B no tears voltage test at 1,5 kV a.c. | passed 4 |
| Stress cracking resistance | 168 h at 180°C no tears voltage test at 1,5 kV a.c. | passed 4 |
| Flame propagation at core | flame effect 60 sec. fire trace: < 425 mm | passed fire trace: 70 mm no afterflame period 4 |
| Flame propagation banded cores | flame effect 20 min fire trace: < 1,5 m | passed fire trace: 0,8 m no afterflame period 4 |
| Acidity of corrosive gases | pH min. 4,3 conductivity max. 10,0 µS/mm | passed 4 |
| Development of corrosive gases | hydrogen chloride max. 0,5%, fluorine max. 0,1% | passed 4 |
| Smoke density | category 4 ≥ 70% | light transmission ≥ 80%v 4 |

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

**ZEICHENGENEHMIGUNG
MARKS LICENCE**

SAB BRÖCKSKES GmbH & Co. KG
Grefrather Strasse 204-212 b
41749 Viersen

ist berechtigt, für ihr Produkt /
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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Tested and certified according to

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

Aktzeichen: 493200-5730-0002 / 49161
File ref.:
Ausweis-Nr. 40012051 Blatt 1
Licence No. Page

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Offenbach, 2004-10-27

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Zertifizierungsstelle
Certification

VDE VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.



VDE Prüf- und Zertifizierungsinstitut
Zeichengenehmigung

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Licence No. / page
40012051 / 2

Datum / Date
2004-10-27

Genehmigungs-Inhabers / Name and registered seat of the Licence holder
GmbH & Co. KG, Grefrather Strasse 204-212 b, 41749 Viersen

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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
SAB BRÖCKSKES

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VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG41
Section FG41



VDE Testing and Certification Institute * Institut VDE d'Essais et de Certification
Münchstrasse 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 mm² CE



Marking for SABIX A 871 TWÖ 68711807:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 871 TWÖ 18 x 0,75 mm² CE

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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 |
| Sheath material: | special SABIX® |
| Sheath colour: | black (RAL 9005) |

Outstanding features:

- 100% very flexible
- 100% halogen-free
- 100% oil resistant
- 100% flame retardant and self-extinguishing
- 100% classification of smoke density acc. to NF F 16-101
- 100% thin-walled
- 100% high installation comfort
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /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 |

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 mm² 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 ₀ /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: | |
|-----------------------|---|
| 100% | very flexible |
| 100% | good EMC characteristics* |
| 100% | halogen-free |
| 100% | oil resistant |
| 100% | flame retardant and self-extinguishing |
| 100% | classification of smoke density acc. to NF F 16-101 |
| 100% | thin-walled |
| 100% | high installation comfort |
| 100% | EAC approval |

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

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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:

| | |
|-------------------------|--|
| 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: | pairwise, pairs in layers |
| Wrapping: | PETP foil |
| Screen: | tinned copper braiding |
| Sheath material: | special SABIX® |
| Sheath colour: | black (RAL 9005) |

Outstanding features:

- 100% very flexible
- 100% good EMC characteristics*
- 100% halogen-free
- 100% oil resistant
- 100% flame retardant and self-extinguishing
- 100% classification of smoke density acc. to NF F 16-101
- 100% thin-walled
- 100% high installation comfort
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /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 |

| item no. | no. of pairs x cross section n x 2 x mm ² | 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 16x0,5mm² - IEC 60332-3-22 - 350V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

Construction:

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

Outstanding features:

- 100% halogen-free
- 100% asbestos-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 100% approvals: DNV-GL, Lloyd's Register, American Bureau of Shipping, Registro Italiano Navale, Russian Maritime Register of Shipping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Peak operating voltage: | max. 350 V |
| Testing voltage: | 1500 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/+90 °C |
| <i>flexible application:</i> | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

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Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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



Marking for SABIX BL 415 C FRNC 64150750: SAB BRÖCKSKES · D-VIERSEN ·
SABIX BL 415 C FRNC 7x0,5mm² - IEC 60332-3-22 - 350V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking



A
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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% asbestos-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 100% approvals:
DNV-GL
Lloyd's Register
American Bureau of Shipping
Registro Italiano Navale
Russian Maritime Register of Shipping
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | max. 350 V |
| Testing voltage: | core/core 1500 V core/screen 1200 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/+90 °C |
| <i>flexible application:</i> | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 7x3x0,34mm² - 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 7x3x0,34mm² - IEC 60332-3-22 - 300V DNV-GL CE and current meter marking

A
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Construction:

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

Outstanding features:

- 100% halogen-free
 - 100% asbestos-free
 - 100% good EMC characteristics*
 - 100% no flame propagation
 - 100% flame retardant and self-extinguishing
 - 100% flexible
 - 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
 - 100% approvals: DNV-GL
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

| | |
|--|--|
| Peak operating voltage: | max. 300 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 IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of triples x cross section n x 3 x mm ² | 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

GL ABS Assessed Lloyd's Register



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

SABIX BL 445 C FRNC TP 3x2x0,25mm² - IEC 60332-3-22 - 350V DNV·GL ABS Assessed Lloyd's Register CE and current meter marking



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Construction:

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | max. 350 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 IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Outstanding features:

- 100% halogen-free
 - 100% asbestos-free
 - 100% good EMC characteristics*
 - 100% good transmission rates and crosstalk attenuation
 - 100% no flame propagation
 - 100% flame retardant and self-extinguishing
 - 100% flexible
 - 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
 - 100% approvals: DNV-GL, Lloyd's Register, American Bureau of Shipping, Registro Italiano Navale, Russian Maritime Register of Shipping
 - 100% EAC approval
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of pairs x cross section n x 2 x mm ² | 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 ² | 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

info@sab-broeckskes.de



www.sab-cable.com

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(2x0,75mm²)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(2x0,75mm²)ST - IEC 60332-3-22 - 300V DNV-GL CE and current meter marking

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Construction:

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | max. 300 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 IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Outstanding features:

- 100% halogen-free
 - 100% asbestos-free
 - 100% good EMC characteristics*
 - 100% good transmission rates and crosstalk attenuation
 - 100% no flame propagation
 - 100% flame retardant and self-extinguishing
 - 100% flexible
 - 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
 - 100% approvals: DNV-GL
- * Copper braiding should be connected circularly to optimize the EMC characteristics

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of pairs x cross section n x 2 x mm ² | 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 12x1,5mm² - IEC 60332-3-22 - 300/500V DNV·GL ABS Assessed Lloyd's Register CE and current meter marking



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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% asbestos-free
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 100% approvals:
DNV-GL
Lloyd's Register
American Bureau of Shipping
Registro Italiano Navale
Russian Maritime Register of Shipping
- 100% EAC approval

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | 2000 V |
| Min. bending radius | |
| fixed laying: | 4 x d |
| flexible application: | 6 x d |
| Temperature range | |
| fixed laying: | -40/+90°C |
| flexible application: | -30/+90°C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 5x1,5mm² - IEC 60332-3-22 - 300/500V DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

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

| Technical data: | |
|--|--|
| Nominal voltage: | U ₀ /U 300/500 V |
| Testing voltage: | core/core 2000 V core/screen 2000 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 IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

| Outstanding features: | |
|-----------------------|--|
| 100% | halogen-free |
| 100% | asbestos-free |
| 100% | good EMC characteristics* |
| 100% | no flame propagation |
| 100% | flame retardant and self-extinguishing |
| 100% | flexible |
| 100% | for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO |
| 100% | approvals: DNV-GL Lloyd's Register American Bureau of Shipping Registro Italiano Navale Russian Maritime Register of Shipping |
| 100% | EAC approval |

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



Possible on request:

- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of cores x cross section n x mm ² | 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 ² | 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 1,5mm² - 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 1,5mm² - IEC 60332-3-22 - 0,6/1kV DNV+GL CE and current meter marking



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Construction:

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

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | 4000 V |
| Min. bending radius | |
| fixed laying: | 4 x d |
| flexible application: | 6 x d |
| Temperature range | |
| fixed laying: | -40/+90 °C |
| flexible application: | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | 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 ² | 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 1,5mm² - IEC 60332-3-22 - 0,6/1kV DNV-GL CE and current meter marking

| Construction: | |
|-------------------------|--|
| Conductor: | tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | special SABIX® |
| Colour code: | black (RAL 9005) |
| Sheath material: | special SABIX® SHF 1 compound acc. to IEC 60092-360 |
| Sheath colour: | 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: | |
|--|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | 4000 V |
| Min. bending radius | |
| fixed laying: | 4 x d |
| flexible application: | 6 x d |
| Temperature range | |
| fixed laying: | -40/+90 °C |
| flexible application: | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | 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 mm² | 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

FRNC 4,0mm² - IEC 60332-3-22 - 0,6/1kV DNV-GL CE



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:

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

Outstanding features:

- 100% halogen-free
- 100% asbestos-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% for applications acc. to Hong Kong Convention ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 100% approvals: DNV-GL

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

Technical data:

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | 4000 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/+90 °C |
| <i>flexible application:</i> | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | n nominal cross section mm ² | 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 12x1,5mm² - IEC 60332-3-22 - 0,6/1kV DNV-GL ABS Assessed Lloyd's Register CE and current meter marking

Construction:

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

| | |
|--|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | 4000 V |
| Min. bending radius | |
| fixed laying: | 4 x d |
| flexible application: | 6 x d |
| Temperature range | |
| fixed laying: | -40/+90 °C |
| flexible application: | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | 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 ² | 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 ² | 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 12x1,5mm² - IEC 60332-3-22 - 0,6/1kV DNV-GL ABS Assessed Lloyd's Register CE and current meter marking



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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% asbestos-free
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% flexible
- 100% for applications acc. to Hong Kong Convention
ingredients tested acc. to the requirements of the Hong Kong Convention (2009) of the IMO
- 100% approvals:
DNV-GL
Lloyd's Register
American Bureau of Shipping
Registro Italiano Navale
Russian Maritime Register of Shipping
- 100% EAC approval

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

Technical data:

| | |
|---|--|
| Nominal voltage: | U ₀ /U 0,6/1 kV |
| Testing voltage: | core/core 4000 V core/screen 4000 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/+90 °C |
| <i>flexible application:</i> | -30/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + EN 60684-2 |
| Fire performance: | 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 |
| 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 |
| Flexibility: | very good |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/17 |

Possible on request:



- 100% bare copper strands
- 100% alternative colour code and sheath colour

| item no. | no. of cores x cross section n x mm ² | 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 |

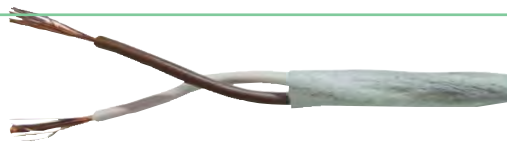
| item no. | no. of cores x cross section n x mm ² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|-----------------------|---------------------------|----------------------------|
| 64120240 | 2 x 4,00 | 12,6 | 131,3 | 222 |
| 64120340 | 3 x 4,00 | 13,3 | 174,9 | 275 |
| 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 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% continuously flexible
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% oil and fuel resistant
- 100% good acid and alkalines resistance
- 100% NF C 32-070 C1
- 100% EAC approval

Technical data:

| | |
|--|---|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = max. 500 V |
| Testing voltage: | 1500 V |
| Min. bending radius | |
| <i>fixed laying:</i> | 5 x d |
| <i>flexible application:</i> | 10 x d |
| <i>continuously flexible:</i> | 12,5 x d |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg (100 kGy) |
| Temperature range | |
| <i>fixed laying:</i> | -40/+90 °C |
| <i>flexible application:</i> | -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 cores x cross section n x mm ² | 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 ² | 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 |

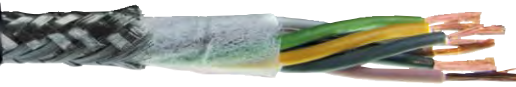
Other dimensions and colours are possible on request.



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 mm² CE



Marking for SABIX SD 715 C FRNC C1 6715725:
SAB BRÖCKSKES · D-VIERSEN · SABIX SD 715 C FRNC C1 7 x 0,25 mm² CE

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Construction:

| | |
|-------------------------|---|
| Conductor: | bare copper strands, extra fine wires |
| Insulation: | SABIX® |
| Colour code: | with reference to DIN 47100 |
| Stranding: | 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:

- 100% halogen-free
- 100% continuously flexible
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% oil and fuel resistant
- 100% good acid and alkalines resistance
- 100% NF C 32-070 C1
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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 ⁷ 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 cores x cross section n x mm ² | 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 ² | 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 mm² CE

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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:

- 100% halogen-free
- 100% continuously flexible
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% oil and fuel resistant
- 100% good acid and alkalines resistance
- 100% NF C 32-070 C1
- 100% EAC approval

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

Technical data:

| | |
|--|--|
| Peak operating voltage: | < 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = 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 ⁷ 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 ² | 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 ² | 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 mm² CE



Marking for SABIX S 710 FRNC C1 67100415:
SAB BRÖCKSKES · D-VIERSEN · SABIX S 710 FRNC C1 4 x 1,5 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% continuously flexible
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% oil and fuel resistant
- 100% good acid and alkalines resistance
- 100% NF C 32-070 C1
- 100% EAC approval

Technical data:

| | |
|--|---|
| Nominal voltage: | 0,6/1 kV |
| Testing voltage: | 4000 V |
| Min. bending radius | |
| <i>fixed laying:</i> | 4 x d |
| <i>flexible application:</i> | 6 x d |
| <i>continuously flexible:</i> | 12,5 x d |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg (100 kGy) |
| Temperature range | |
| <i>fixed laying:</i> | -40/+90 °C |
| <i>flexible application:</i> | -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 cores x cross section n x mm ² | 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 ² | 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 mm²

Marking for SABIX S 712 C FRNC C1 67120315:
SAB BRÖCKSKES · D-VIERSEN · SABIX S 712 C FRNC C1 3 x 1,5 mm² CE

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Construction:

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

Outstanding features:

- 100% halogen-free
- 100% continuously flexible
- 100% good EMC characteristics*
- 100% no flame propagation
- 100% flame retardant and self-extinguishing
- 100% oil and fuel resistant
- 100% good acid and alkalines resistance
- 100% NF C 32-070 C1
- 100% EAC approval

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

Technical data:

| | |
|--|---|
| Nominal voltage: | 0,6/1 kV |
| Testing voltage: | core/core 4000 V core/screen 2000 V |
| Min. bending radius | |
| fixed laying: | 5 x d |
| flexible application: | 10 x d |
| continuously flexible: | 15 x d |
| Radiation resistance: | 1 x 10 ⁷ 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 cores x cross section n x mm ² | 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 ² | 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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