

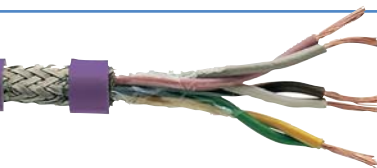
# REMOTE BUS CABLES



**S IBS 618** PUR Interbus-S cable  
for cable tracks UL recognition  
**SABIX® IBS 610 FRNC** halogen-free, flame retardant Interbus-S cable

**SABIX® IBS 610** halogen-free Interbus-S cable

618 3 x 2 x 0,25 mm<sup>2</sup> AWM Style 20235 80°C CE



Marking for S IBS 618 06183251:

SAB BRÖCKSKES · D-VIERSEN · IBS 618 3 x 2 x 0,25 mm<sup>2</sup> AWM Style 20235 80°C CE

The Interbus-S communication cable 3 x 2 x 0.22 mm<sup>2</sup> is supposed to be applied as data cable in the sensor/actor level of industrial communication.

| item no.   | type                | no. of pairs | AWG                   | nominal outer- $\phi$ inch | mm  | cable weight $\approx$ lbs/mft |
|------------|---------------------|--------------|-----------------------|----------------------------|-----|--------------------------------|
| ▶ 06183251 | S IBS 618           | 3            | 24 ( $\approx$ 16/32) | 0.335                      | 8.5 | 55                             |
| ▶ 56103221 | SABIX® IBS 610      | 3            | 24 ( $\approx$ 16/32) | 0.276                      | 7.0 | 36                             |
| ▶ 66103221 | SABIX® IBS 610 FRNC | 3            | 24 ( $\approx$ 16/32) | 0.276                      | 7.0 | 42                             |

Other dimensions and colors are possible on request.

## General construction:

|                    |  |
|--------------------|--|
| <b>Conductor:</b>  | bare copper strands with reference to DIN VDE 0812 |
| <b>Color code:</b> | acc. to DIN VDE 47100                              |
| <b>Stranding:</b>  | twisted to pairs                                   |
| <b>Screen:</b>     | tinned copper braiding                             |

## Technical data:

|   |  |
|---|--|
| <b>Peak operating voltage:</b>                | max. 350 V   |
| <b>Testing voltage:</b>                       | 1500 V   |
| <b>Min. bending radius:</b>                   | 7.5 x O.D.   |
| <b>Zero halogen:</b>                          | acc. to DIN VDE 0472 part 815 and IEC 60754-1              |
| <b>Characteristic impedance at 0.064 MHz:</b> | 120 $\Omega$ $\pm$ 20%                                     |
| <b>Characteristic impedance &gt; 1 MHz:</b>   | 100 $\Omega$ $\pm$ 15 $\Omega$                             |
| <b>Absence of harmful substances:</b>         | acc. to RoHS directive of the European Union see page N/28 |

|   | S IBS 618*  | SABIX® IBS 610                              | SABIX® IBS 610 FRNC            |
|---|---|---|--------------------------------|
| ▶ <b>Insulation:</b>  | PE, 2Y11 acc. to DIN VDE 0207 part 2                              | SABIX® 336                                  | SABIX® 336                     |
| ▶ <b>Wrapping:</b>  | non-woven tape  | PETP foil                                   | PETP foil                      |
| ▶ <b>Outer jacket (purple):</b>   | PUR,TMPU acc. to DIN VDE DIN VDE 0282 part 10, with rough surface | SABIX® 322                                  | SABIX® 230                     |
| ▶ <b>Voltage acc. to UL:</b>  | 300 V   | –   | –                              |
| ▶ <b>Radiation resistance:</b>  | 5 x 10 <sup>7</sup> cJ/kg   | 5 x 10 <sup>6</sup> cJ/kg                   | –                              |
| ▶ <b>Temperature range</b><br><i>static:</i><br><i>flexing:</i>   | <b>UL:</b> up to +80°C<br>-40/+70°C<br>-40/+70°C                  | -50/+90°C<br>-40/+90°C                      | -40/+85°C<br>-30/+85°C         |
| ▶ <b>Burning characteristics:</b> no flame propagation acc. to IEC 60332-3 + EN 60332-3 Cat. C resp. D  | –   | –   | X                              |
| ▶ <b>Burning characteristics:</b> flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2                                 | X   | –   | X                              |
| ▶ <b>Corrosivity:</b> in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases | X   | X   | X                              |
| ▶ <b>Smoke density:</b>   | –   | low   | acc. to IEC 61034 and EN 61034 |
| ▶ <b>Oil resistance:</b>  | very good - TMPU acc. to DIN VDE 0282 part 10                     | very good - TM5 acc. to DIN VDE 0281 part 1 | –                              |
| ▶ <b>Flexibility:</b>   | very good   | very good                                   | good                           |
| ▶ <b>Application in cable tracks:</b>   | recommended   | not recommended                             | not recommended                |
| ▶ <b>Weather resistance:</b>  | very good   | good  | good                           |
| ▶ <b>Bending characteristics:</b> number of bends acc. to. DIN VDE 0472 part 603 test method H  | min. 1.000.000 single bendings                                    | –   | –                              |
| ▶ <b>UL Style:</b>  | 20235-80°C  | –   | –                              |

\* Interbus-S remote bus cables 3 x 2 x 0.22 mm<sup>2</sup> or 3 x 2 x 0.25 mm<sup>2</sup> are used for the sensor/actuator level of industrial communication

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)