



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

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



BRÖCKSKES · D-VIERSEN · SABIX A 146 S 300/500 V 0,5 mm² CE

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:

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

## Outstanding features:

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

## Technical data:

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

## SABIX® A 146 S

| item no.    | nominal cross-section mm² | 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 mm² | 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**