

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 "thin-wall" connection and data cable with overall tinned copper screen



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

SABIX® A 876 C TWÖ TP is a very flexible halogen-free tinned copper shielded data cable, consisting of twisted pairs. The cable is designed for use in transportation vehicles and locomotives. The "thin-wall" outer jacket guarantees easier installation. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. In case of fire, no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

### Construction:

|                         |  |
|-------------------------|--|
| <b>Conductor:</b>       | tinned copper strands fine wires acc. to EN 50306-2  |
| <b>Insulation :</b>     | special SABIX®                                       |
| <b>Color code:</b>      | white conductors with black numbers acc. to EN 50334 |
| <b>Stranding:</b>       | pairwise, pairs in layers                            |
| <b>Wrapping:</b>        | PETP foil  |
| <b>Screen:</b>          | tinned copper braiding                               |
| <b>Jacket material:</b> | special SABIX®                                       |
| <b>Jacket color:</b>    | black  |

### Outstanding features:

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

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

### Technical data:

|                                       |  |
|---------------------------------------|--|
| <b>Nominal voltage:</b>               | U <sub>0</sub> /U 300/500 V  |
| <b>Testing voltage:</b>               | 2000 V   |
| <b>Min. bending radius</b>            |  |
| <i>fixed laying:</i>                  | 5 x O. D.  |
| <i>flexible application:</i>          | 10 x O. D.   |
| <b>Temperature range</b>              |  |
| <i>fixed laying:</i>                  | -40/+105°C   |
| <i>flexible application:</i>          | -25/+105°C   |
| <b>Zero halogen:</b>                  | acc. to DIN VDE 0472 part 815 and IEC 60754-1  |
| <b>Burning characteristics:</b>       | No flame propagation acc. to IEC 60332 + EN 60332 resp. EN 50305.<br>Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| <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                        |
| <b>Smoke density:</b>                 | acc. to IEC 61034 + EN 61034 + index of smoke density acc. to NF F 16-101  |
| <b>Ozone resistance:</b>              | acc. to VDE 0282 part 2  |
| <b>Flexibility:</b>                   | very good  |
| <b>Absence of harmful substances:</b> | acc. to RoHS directive of the European Union see page O/30   |

| item no.                          | no. of pairs | nominal outer-ø inch | mm  | cable weight ≈ lbs/mft |
|-----------------------------------|--------------|----------------------|-----|------------------------|
| ▶ ≈ 20 AWG • 0.50 mm <sup>2</sup> |              |                      |     |                        |
| 68760305                          | 3            | 0.291                | 7.4 | 50                     |
| 68760405                          | 4            | 0.331                | 8.4 | 62                     |
| ▶ ≈ 19 AWG • 0.75 mm <sup>2</sup> |              |                      |     |                        |
| 68760207                          | 2            | 0.280                | 7.1 | 49                     |
| 68760307                          | 3            | 0.319                | 8.1 | 64                     |

Other dimensions and colors are possible on request.



Especially for use in rail vehicles.

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