

## ÖLFLEX® TRAFFIC 4GKW-AXplus

DB 4222082  
valid from: 2013-09-17

## Application

ÖLFLEX® TRAFFIC 4GKW-AXplus cables are robust, compact, double insulated and halogen free, electron beam cross linked lead wire with improved fire performance, high resistance to temperature and dielectric strength up to 1,8/3kV.

Application range:

For fixed and protected installations inside or outside of railway vehicles and buses, for connecting stationary and moving parts, suitable for cabling of control cabinets, distributors, converters, panel units and blocks, resistance and braking blocks

## Design

Cable picture



|              |                                                                             |
|--------------|-----------------------------------------------------------------------------|
| Conductor    | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5 |
| Insulation   | electron beam cross linked polyolefin copolymer                             |
| Outer sheath | electron beam cross linked elastomer<br>Colour: black                       |

## Electrical properties

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Nominal voltage | U <sub>0</sub> / U (Um): 1,8 / 3 (3,6) kV AC<br>U <sub>0</sub> : 2,7kV DC |
| Test voltage    | 6,5kV AC                                                                  |

## Mechanical and thermal properties

|                                    |                        |                     |                      |
|------------------------------------|------------------------|---------------------|----------------------|
| Min. bending radius                | cable diameter < 10 mm | occasional flexing: | > 7 x cable diameter |
|                                    |                        | fixed installation: | > 5 x cable diameter |
|                                    | cable diameter > 10 mm | occasional flexing: | > 8 x cable diameter |
|                                    |                        | fixed installation: | > 6 x cable diameter |
| Temperature range                  | max. conductor temp.   | occasional flexing: | +90 °C               |
|                                    |                        | fixed installation: | +120 °C              |
|                                    | short circuit temp.    |                     | +200 °C              |
|                                    | min. ambient temp.     | occasional flexing: | -35 °C               |
| Fire performance for rolling stock | BS6853                 | interior use        | Ia, Ib, II           |
|                                    |                        | exterior use        | Ia, Ib, II           |
|                                    | DIN 5510               | level of protection | 1, 2, 3, 4           |
|                                    | NF F 16-101            | classification      | C / FO               |
|                                    |                        | interior use        | A1, A2, B            |
|                                    |                        | exterior use        | A1, A2, B            |



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|                                    |                                                      |                                                                                                                             |                                  |
|------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Fire performance for rolling stock | BS6853                                               | interior use<br>exterior use                                                                                                | Ia, Ib, II<br>Ia, Ib, II         |
|                                    | DIN 5510                                             | level of protection                                                                                                         | 1, 2, 3, 4                       |
|                                    | NF F 16-101                                          | classification<br>interior use<br>exterior use                                                                              | C / FO<br>A1, A2, B<br>A1, A2, B |
| Flammability                       | flame retardant acc. to<br>flame propagation acc. to | IEC 60332-1-2 resp. DIN EN 60332-1-2<br>IEC 60332-3-24 resp. DIN EN 60332-3-24 or<br>IEC 60332-3-25 resp. DIN EN 60332-3-25 |                                  |
| low fire load                      | acc. to DIN 51900                                    |                                                                                                                             |                                  |
| Smoke density                      | acc. to IEC 61034-2, DIN EN 614034-2                 |                                                                                                                             |                                  |
| Toxicity                           | acc. to DIN EN 50305, NF X70-100                     |                                                                                                                             |                                  |
| Halogen-free                       | acc. to IEC 60754-1, EN 50267-2-1                    |                                                                                                                             |                                  |
| No fluorine                        | acc. to DIN EN 60684-2                               |                                                                                                                             |                                  |
| Corrosivity                        | acc. to IEC 60754-2, EN 50267-2-3                    |                                                                                                                             |                                  |
| Ozone-, oil-, fuel-resistance      | DIN EN 50305                                         |                                                                                                                             |                                  |