

ÖLFLEX® TRAIN 4GKW

LK 12111604RD

Version: 08

Date: 09.Dec.2025

1. Designation

ÖL FLIX® TRAIN 4GKW

2. Application

For protected installations inside and outside of rail vehicles and buses and other rail vehicles used for the connection of fixed and moved parts. Suitable for the wiring of switchboards, converters and distribution boxes. Due to the double-insulated design, these cables can be classified as short circuit and earth fault-proof. The thin outer layer protects against the effects of mineral oil fuels and ozone.

3. Design

- Norm references: EN 50264-3-1, type OM
- Conductor: Fine wire strands of non-porous tinned copper wires according to IEC 60228, Class 5
Conductor resistance according to VDE 0295, Class 5
Separator tape (if necessary)
- Inner insulation: Electron beam cross-linked polymer compound, halogen free and flame retardant
The insulation colour: White
- Outer insulation: Electron beam cross-linked polymer compound, halogen free and flame retardant, UV resistance
The sheath colour: Black

4. Technical data

5. Fire performance

| | | |
|---|------------------------------|----------------------------|
| BS6853 | Interior use Exterior use | Ia,Ib,II Ia,Ib,II |
| Vertical flame spread of bunched wires and cables | | BS 6853 |
| Smoke density | | BS 6853 appendix D |
| Toxicity of gases | | BS 6853 appendix B R < 1.0 |
| EN 45545-2 | hazard level | HL 1, HL 2, HL 3 |
| Vertical flame propagation for a single insulated wire or cable | | EN 60332-1-2 |

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Vertical flame spread of bunched wires and cables
Smoke density
Toxicity of gases

EN 50305
EN 61034-2
EN 50305

NFPA 130

Vertical flame spread of bunched wires and cables
Smoke density
Toxicity of gases

FT4/IEEE1202
ANSI/UL1685
BSS-7239

6. Cable make up**6.1 Conductor**

- Conductor make up: Fine wire strands of tinned copper according to IEC 60228/EN 60228 resp. VDE 0295 class 5
- Conductor resistance acc. to EN 60228 resp. VDE 0295 class 5 for tinned copper wires
- Separator tape (if necessary)

6.2 Inner insulation

- Material: Temperature resistant electron beam cross-linked polymer, halogen free and highly flame retardant
- Manufacturer and compound designation:
- Colours: White

6.3 Outer insulation

- Material: Temperature resistant electron beam cross-linked polymer, halogen free and highly flame retardant
- Manufacturer and compound designation:
- Colours: Black

6.4 Dimension

| Part no. | Conductor | Inner Insulation | Outer Insulation | Outer diameter |
|----------|-------------------------------------|---------------------|---------------------|-----------------|
| | Cross section (mm ²) | Thickness (mm) | Thickness (mm) | Approx. (mm) |
| 85165001 | 1.5 | 0.6 | 0.4 | 3.6 |
| 85165002 | 2.5 | 0.6 | 0.4 | 4.0 |
| 85165003 | 4 | 0.6 | 0.4 | 4.5 |
| 85165004 | 6 | 0.7 | 0.4 | 5.3 |
| 85165005 | 10 | 0.8 | 0.4 | 6.5 |
| 85165006 | 16 | 0.8 | 0.6 | 8.6 |
| 85165007 | 25 | 0.9 | 0.7 | 10.3 |
| 85165008 | 35 | 1.0 | 0.7 | 11.9 |

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| Part no. | Conductor | Inner Insulation | Outer Insulation | Outer diameter |
|----------|-------------------------------------|---------------------|---------------------|-----------------|
| | Cross section (mm ²) | Thickness (mm) | Thickness (mm) | Approx. (mm) |
| 85165009 | 50 | 1.0 | 0.8 | 14.3 |
| 85165010 | 70 | 1.0 | 0.8 | 16.2 |
| 85165011 | 95 | 1.0 | 0.8 | 18.1 |
| 85165012 | 120 | 1.2 | 0.9 | 20.4 |
| 85165013 | 150 | 1.2 | 0.9 | 22.2 |
| 85165014 | 185 | 1.2 | 1.1 | 24.6 |
| 85165015 | 240 | 1.2 | 1.1 | 27.5 |
| 85165016 | 300 | 1.3 | 1.2 | 30.6 |
| 85165017 | 400 | 1.3 | 1.3 | 34.3 |

7. Common requirements

RoHS: Dangerous and forbidden substances according to EC-Directive 2011/65/EU regarding Restriction of the use of certain hazardous substances (RoHS), are not allowed during manufacturing.

REACH: All materials used in the manufacturing process of the product are subject to the EC-Regulation No.1907/2006 regarding Registration, Evaluation, Authorization and Restriction of Chemicals (**REACH**).
If substances based on the current Candidate List are used, they shall be listed with their designation and their concentration.

AbN
automation