

ÖLFLEX® TRAIN 4GKW C

LK 19041701RD
Version: 05 Date: 09. Dec.2025

1. Designation

ÖLFLEX® TRAIN 4GKW C

2. Application

For fixed installations inside of rail vehicles and buses. These cables with very small outer diameter are used where space is very limited.
Typical applications are in switchboards and control panels of trains and multi units.

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)
- Core insulation: Electron beam cross-linked polymer compound, halogen free and flame retardant
The insulation colour: White
- Shield: Tinned copper braiding
- Core sheath: Electron beam cross-linked polymer compound, halogen free and flame retardant
UV resistance
The sheath colour: Black

4. Technical data

Nominal voltage U_0/U (U_m)	1.8/3 (3.6) kV AC
Nominal voltage V_0/V	2.7 kV DC
Test voltage	6.5 kV
Temperature range	Fixed installed: -40 °C up to +125 °C max.
	Occasional flexing: -35 °C up to +90 °C max.
Short circuit temperature	+200 °C
Minimum bending radius ($\leq 12\text{mm}$)	Fixed installation: 3 x cable diameter Occasional flexing: 4 x cable diameter
($> 12\text{mm}$)	Fixed installation: 4 x cable diameter Occasional flexing: 5 x cable diameter
UV resistance	\

5. Fire performance

BS6853	Interior use	la,lb,II
	Exterior use	la,lb,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

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EN 45545-2

hazard level

HL 1, HL 2, HL 3

Vertical flame propagation for a single insulated wire or cable
 Vertical flame spread of bunched wires and cables
 Smoke density
 Toxicity of gases
 Halogen-free
 No corrosive gases

EN 60332-1-2
 EN 50305
 EN 61034-2
 EN 50305
 IEC 60754-1
 IEC 60754-2

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+6 for tinned copper wires
- Separator tape (if necessary)

6.2 Core insulation

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

6.3 Shield

- Tinned copper braid (over 80% optical coverage)
- Separating tape wrapping or talc powder (if necessary)

6.4 Core sheath

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

6.5 Dimension

Part no.	Conductor	Insulation	Sheath	Outer diameter
	Cross section (mm²)	Thickness (mm)	Thickness (mm)	Approx. (mm)
3823336	1.5	0.8	0.7	5.2
3823337	2.5	0.8	0.7	5.6
3823338	4	0.9	0.8	6.5
3823339	6	1.2	0.9	8.0
3823340	10	1.4	0.9	9.4
3823341	16	1.4	0.9	11.0
3823342	25	1.6	1.1	13.2

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Part no.	Conductor	Insulation	Sheath	Outer diameter
	Cross section (mm ²)	Thickness (mm)	Thickness (mm)	Approx. (mm)
3823343	35	1.6	1.1	14.6
3823344	50	1.6	1.1	16.9
3823345	70	1.6	1.1	18.7
3823346	95	1.6	1.1	20.7
3823347	120	2.0	1.1	23.1
3823348	150	2.0	1.4	25.5
3823349	185	2.1	1.4	27.9
3823350	240	2.1	1.4	30.8
3823351	300	2.2	1.6	34.1

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.

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