

Screened single core energy cable for increased voltage ratings

### Product Description

High electrical strength and mechanical durability due to dual-layer cable construction; Copper screening complies with EMC requirements and protects against electromagnetic interference; High flexibility and slim diameters enable small bending radii at fixed installation; Resistant to mechanical influences in harsh environmental conditions; Excellent chemical resistance and high flammability rating as well

LAPP KABEL STUTTGART ÖLFLEX® TRAFFIC 4GKW-AX plus C-flex



### Application range

- For fixed and protected installations inside or outside of railed vehicles and busses
- For connection of stationary and moving parts
- Suitable for cabling of switchboards, converters, panel units and rheostatic braking blocks

### Benefits

- High electrical strength and mechanical durability due to dual-layer cable construction
- Copper screening complies with EMC requirements and protects against electromagnetic interference
- High flexibility and slim diameters enable small bending radii at fixed installation
- Resistant to mechanical influences in harsh environmental conditions
- Excellent chemical resistance and high flammability rating as well

### Design

- Tinned copper strand, fine wired
- Insulation: cross-linked polyolefin copolymer
- Outer layer: electron beam cross-linked elastomer, black
- tinned copper braid
- Outer sheath: electron beam cross-linked elastomer
- Outer sheath colour: Black

### Product features

- Fire behaviour: - Halogen-free (IEC 60754-1) - No corrosive gases (IEC 60754-2) - No toxic gases (EN 50305) - Low smoke density (IEC 61034) - Flame retardant (IEC 60332-1-2) - No fire spreading (IEC 60332-3-24) - Low fire load (DIN 51900)
- Chemical properties: - Oil and fuel resistance (EN 50305) - Ozone resistance (EN 50305) - No fluorine (EN



60684-2)

**Technical Data**

**Conductor stranding**

Fine wired according VDE 0295, Class 5 (SRC = Special Round Conductor)

**Minimum bending radius**

< 10 mm fixed installation > 5 x D Occasional movement > 7 x D

> 10 mm fixed installation > 6 x D Occasional movement > 8 x D

**Rated voltage**

U0/U AC 1.8/3 kV

U0DC 2,7 kV

**Test voltage**

6.5 kV AC

**Range of temperature**

Fixed installation: -60°C up to +120°C

Occasional flexing: -35 °C up to +90 °C Short circuit: +200° C

**Article List**

Part number	Outer diameter in mm	Conductor cross section in mm <sup>2</sup>	Copper index kg/km	Weight kg/km	Fire load in kWh/m
ÖLFLEX® TRAFFIC 4GKW-AXplus C-flex					
4223336	4,9	1,5	25.1	47	0.08
4223337	5,5	2,5	42.8	62	0.1
4223338	6,7	4	59.8	95	0.14
4223339	7,4	6	81.6	123	0.16
4223340	8,5	10	126.0	178	0.21
4223341	10,7	16	193.0	261	0.32
4223342	12,5	25	288.0	371	0.43
4223343	14.0	35	391.0	492	0.53
4223344	16,5	50	567.0	693	0.66
4223345	18,6	70	779.0	913	0.78
4223346	20,3	95	1023.0	1165	0.91
4223347	22,8	120	1277.0	1441	1.14
4223348	25,1	150	1576.0	1730	1.28
4223349	27.0	185	1976.0	2088	1.45
4223350	30,2	240	2512.0	2709	1.74



4223351	32,8	300	3106.0	3329	2.03
4223352	37,1	400	4102.0	4250	2.42

**Footnote:**

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil  $\leq$  30 kg and  $\leq$  250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Photographs are not to scale and do not represent detailed images of the respective products.