


U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® TRAFFIC 3GKW C-flex	12.09.2012

Screened multi-core cable for additional requirements in railway applications
Copper screening complies with EMC requirements and protects against electromagnetic interference
High flexibility and slim diameters enable small bending radii for fixed installation
Resistant to mechanical influences in harsh environmental conditions
Extended temperature range
Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property



Info

Screened to comply with EMC

Application range

For fixed and protected installations inside or outside of railway vehicles and buses
Suitable for connecting to fixed and moving objects such as lamps, heating equipment, electrical equipment, vehicle wiring, terminal boxes and power supplies

Design

Tinned-copper strand, fine-wire
Electron beam cross-linked polyolefin copolymer insulation
Colour of core insulation: white with black printed numbers
Tinned-copper braiding
Outer sheath: electron beam cross-linked polyolefin copolymer
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 propagation (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)

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.


Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (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.

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Technical Data

Conductor stranding:	Fine wire according to 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
Nominal voltage:	U ₀ /U AC 0.6/1 kV U ₀ /U DC 0.9/1.5 kV
Test voltage:	Core/Core: 4 kV Core/Screen: 4 kV
Temperature range:	Fixed installation: -45°C to +120°C Occasional flexing: -35°C to +90°C Short circuit: +200°C

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	Fire load (kWh/m)
ÖLFLEX® TRAFFIC 3GKW C-flex					
4223441	2 X 0,5	6,1	28.4	56	0.12
4223442	3 X 0,5	6,4	34.9	65	0.11
4223443	4 X 0,5	7,1	43.3	81	0.14
4223444	5 X 0,5	7,7	48.9	94	0.18
4223445	7 X 0,5	8,9	63.7	127	0.24
4223446	10 X 0,5	10.0	82.5	156	0.28
4223447	12 X 0,5	10,5	93.9	177	0.32
4223448	2 X 0,75	6,7	35.8	69	0.14
4223449	3 X 0,75	7.0	43.9	79	0.13
4223450	4 X 0,75	7,7	53.7	98	0.17
4223451	5 X 0,75	8,4	66.0	119	0.2
4223452	7 X 0,75	10.0	84.9	164	0.29
4223453	10 X 0,75	11,1	111.0	199	0.33
4223454	12 X 0,75	11,6	127.0	225	0.37
4223455	2 X 1,0	7,1	43.3	82	0.14
4223456	3 X 1,0	7,5	53.7	83	0.14
4223457	4 X 1,0	8,2	68.4	117	0.19
4223458	5 X 1,0	9.0	79.0	139	0.22
4223459	7 X 1,0	10,6	104.0	193	0.33
4223460	2 X 1,5	7,7	54.57	100	0.18
4223461	3 X 1,5	8,1	73.23	114	0.17
4223462	3 G 1,5	8,1	73.23	114	0.17
4223463	4 X 1,5	8,9	88.62	139	0.21
4223464	5 X 1,5	9,9	106.51	173	0.29
4223465	5 G 1,5	9,9	106.51	173	0.29
4223466	7 X 1,5	11,7	145.97	243	0.39
4223467	2 X 2,5	8,9	79.0	133	0.27
4223468	3 X 2,5	9,4	104.76	155	0.21
4223469	3 G 2,5	9,4	104.76	155	0.21



Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)	Fire load (kWh/m)
4223470	4 X 2,5	10,5	133.13	200	0.29
4223471	5 X 2,5	11,6	165.17	250	0.39
4223472	5 G 2,5	11,6	165.17	250	0.39
4223473	7 X 2,5	13,7	217.36	345	0.53
4223475	3 X 4	10,8	153.21	216	0.27
4223476	3 G 4	10,8	153.21	216	0.27
4223477	4 X 4	11,9	198.71	279	0.36
4223478	5 X 4	13,4	240.0	353	0.45