



RADOX® 3 GKW, 600/1000 V Traction cable

Halogen free, compact, single wall signal and power cable for general applications

RADOX® 3 GKW are compact single core power and signal cables. Thanks to the medium-wall design weight and space requirements are minimised. They are halogen free, flame retardant, low smoke and have a low toxicity index. Demands for temperature, weathering, ozone and oil resistance are fulfilled easily.

The cable is flexible and easy to install. The RADOX® insulation makes it easy to strip and is soldering iron resistant.

RADOX® 3 GKW cables are qualified for protected fixed cabling and installation both inside and outside of rolling stock to connect fixed and moving parts. Typical applications include carriage wiring, terminal boxes, power supply to various systems and ground connection.

Fire performance classifications:

BS 6853 - Ia, Ib, II

DIN 5510 - 1 to 4

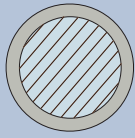
NF F 16-101 - C/F0

- Voltage rating 600/1000 V
- Operating temperature -40°C to +120°C
- Electron beam crosslinked RADOX® insulation does not melt or flow at high temperatures
- Long service life
- Compact and weight optimised
- High flexibility and tight bending radii
- Other versions:
RADOX® 3 GKW EMC - screened



RADOX® 3 GWK

Traction cable



Conductor: stranded, tin plated copper, according to IEC 60228, class 5
 Insulation: RADOX® GWK J, grey

Cross-section mm ²	Conductor construction n x mm	Conductor dia. nom. mm	Cable dia. nom. mm	R ₂₀ max. Ω/km	Weight nom. kg/100 m	Standard Packaging	Part No.
0.50	19 x 0.18	0.88 ± 0.03	2.00 ± 0.10	40.1	0.9	5000 m L450	12 548 125
0.75	24 x 0.21	1.10 ± 0.05	2.20 ± 0.10	26.7	1.2	5000 m L450	12 548 126
1.0	32 x 0.21	1.25 ± 0.05	2.45 ± 0.10	20.0	1.4	3000 m L450	12 551 402
1.5	30 x 0.26	1.52 ± 0.05	2.70 ± 0.10	13.7	2.0	3000 m L450	12 545 286
2.5	50 x 0.26	1.94 ± 0.05	3.30 ± 0.10	8.21	3.1	2000 m L450	12 545 288
4.0	56 x 0.31	2.54 ± 0.10	3.95 ± 0.10	5.09	4.7	1500 m L450	12 545 290
6.0	84 x 0.31	3.10 ± 0.15	4.70 ± 0.15	3.39	6.9	1000 m L450	12 548 127
10	80 x 0.41	4.10 ± 0.20	5.85 ± 0.15	1.95	11.3	1000 m L500	12 545 153
16	119 x 0.41	5.30 ± 0.20	7.30 ± 0.15	1.24	16.6	1000 m LHL710	12 545 292
25	182 x 0.41	6.70 ± 0.20	8.90 ± 0.20	0.795	25.0	1000 m LHL900	12 543 216
35	266 x 0.41	7.80 ± 0.25	10.2 ± 0.20	0.565	35.0	1000 m LHL900	12 548 128
50	378 x 0.41	9.30 ± 0.30	11.9 ± 0.20	0.393	50.0	600 m LHL900	12 545 155
70	348 x 0.51	11.4 ± 0.35	14.3 ± 0.25	0.277	69.0	500 m LHL900	12 543 214
95	444 x 0.51	12.8 ± 0.40	15.9 ± 0.25	0.210	90.0	300 m LHL900	12 548 671
120	551 x 0.51	14.6 ± 0.45	17.9 ± 0.30	0.164	118	300 m LHL1050	12 542 936
150	722 x 0.51	16.8 ± 0.50	20.3 ± 0.30	0.132	146	300 m LHL1050	12 548 673
185	874 x 0.51	18.3 ± 0.55	22.0 ± 0.30	0.108	178	250 m LHL1050	12 551 404
240	1147 x 0.51	21.1 ± 0.65	25.2 ± 0.30	0.0817	230	250 m LHL1050	12 551 406
300	1443 x 0.51	23.7 ± 0.70	28.0 ± 0.30	0.0654	300	250 m LHL1050	12 555 741
400	2016 x 0.51	29.1 ± 0.70	33.8 ± 0.30	0.0495	400	none	12 557 104

Also available in yellow/green. Other colors on request.

Technical Specification

Voltage rating: 600/1000 V AC; 900/1500 V DC
 Test voltage: 4000 V, 50 Hz, 5 min.
 Temperature range: -40°C to +120°C

HUBER+SUHNER Group is certified according to
 ISO 9001 and ISO 14001

Waiver

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