



# RADOX® 4 GKW-AX, 1.8/3 kV Traction cable

**Halogen free, compact, dual wall power cable with improved corona resistance for demanding applications**

RADOX® 4 GKW-AX are compact, flexible single core power and signal cables, designed for minimum cable weight and diameter. These cables meet the requirements of the modern railway industry including considerably increased corona resistance. They are halogen free, flame retardant, low smoke and have a low toxicity index. Demands for temperature, abrasion, ozone and oil resistance are also fulfilled easily.

RADOX® 4 GKW-AX cables are qualified for permanently protected installations inside and outside of rolling stock to connect fixed and moving parts in DC and AC applications, especially inverter technology applications.

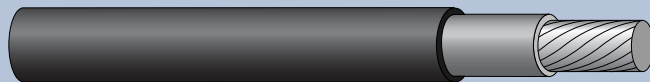
Fire performance classifications:  
BS 6853 - Ia, Ib, II  
DIN 5510 - 1 to 4  
NF F 16-101 - C/F0

- Voltage rating 1.8/3.0 kV
- Operating temperature -40°C to +120°C
- Electron beam crosslinked RADOX® insulation does not melt or flow at high temperatures
- Enhanced corona resistance
- Resistant to mineral oils and detergents
- Compact and weight optimised
- High flexibility and tight bending radii



# RADOX® 4 GKW-AX

## Traction cable



Conductor: stranded, tin plated copper, according to IEC 60228, class 5  
 Insulation: RADOX® GKW K  
 Sheath: RADOX® GKW S, color black

Cross-section mm <sup>2</sup>	Conductor construction n x mm	Conductor dia. nom. mm	Cable dia. nom. mm	R <sub>20</sub> max. Ω/km	Weight nom. kg/100 m	Standard Packaging	Part No.
1.5	30 x 0.26	1.52 ± 0.05	3.20 ± 0.10	13.7	2	2000 m L450	12 536 686
2.5	50 x 0.26	2.01 ± 0.05	3.70 ± 0.15	8.21	3	1500 m L450	12 536 692
4.0	56 x 0.31	2.60 ± 0.10	4.50 ± 0.15	5.09	5	1500 m L500	12 536 694
6.0	84 x 0.31	3.10 ± 0.15	5.10 ± 0.15	3.99	7	1000 m L500	12 536 696
10	80 x 0.41	4.10 ± 0.20	6.30 ± 0.20	1.95	12	none	12 545 527
16	119 x 0.41	5.40 ± 0.20	8.30 ± 0.20	1.24	19	none	12 545 528
25	182 x 0.41	6.80 ± 0.20	10.2 ± 0.30	0.795	28	none	12 545 529
35	266 x 0.41	7.80 ± 0.25	11.7 ± 0.30	0.565	39	none	12 545 530
50	378 x 0.41	9.50 ± 0.30	13.6 ± 0.30	0.393	55	none	12 545 531
70	348 x 0.51	11.5 ± 0.35	15.6 ± 0.30	0.277	74	none	12 545 532
95	444 x 0.51	12.9 ± 0.40	17.3 ± 0.30	0.210	96	none	12 545 533
120	551 x 0.51	14.8 ± 0.45	19.6 ± 0.30	0.164	120	none	12 544 522
150	722 x 0.51	16.8 ± 0.50	21.9 ± 0.30	0.132	155	none	12 545 534
185	874 x 0.51	18.5 ± 0.55	23.8 ± 0.30	0.108	188	none	12 544 523
240	1147 x 0.51	21.0 ± 0.65	26.9 ± 0.30	0.0817	240	none	12 547 684
300	1443 x 0.51	23.5 ± 0.70	29.7 ± 0.30	0.0654	289	none	12 552 906
400	2016 x 0.51	29.1 ± 0.70	34.6 ± 0.30	0.0495	405	none	12 555 997

Other colors available on request.

### Technical Specification

Voltage rating 1.8/3.0 kV AC; 2.25/4.5 kV DC  
 Test voltage 6.5 kV, 50 Hz, 15 min.  
 Temperature range -40°C to +120°C

### Other Versions

RADOX® 4 GKW-AX/EMC-L screened version  
 RADOX® 4 GKW-AX FR version with insulation retention in case of a fire acc. to IEC 60331-1970  
 RADOX® 4 GKW-AX J version for jumper applications

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

#### Waiver

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**HUBER+SUHNER - Excellence in Connectivity Solutions**



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