



RADOX® 9 GKW-AX, 3.6/6 kV

Traction cable

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

RADOX® 9 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.

RADOX® 9 GKW-AX cables are qualified for permanently protected installation 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 3.6/6.0 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® 9 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 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.
1.5	30 x 0.26	1.52 ± 0.05	4.40 ± 0.10	13.7	2	2000 m L450	12 537 829
2.5	50 x 0.26	2.01 ± 0.05	4.90 ± 0.15	8.21	5	1500 m L500	12 537 830
4.0	56 x 0.31	2.60 ± 0.10	5.70 ± 0.15	5.09	6	1500 m LHL710	12 537 831
6.0	84 x 0.31	3.10 ± 0.15	6.30 ± 0.15	3.99	9	1000 m LHL710	12 537 832
10	80 x 0.41	4.10 ± 0.20	7.50 ± 0.20	1.95	14	none	12 545 520
16	119 x 0.41	5.40 ± 0.20	9.40 ± 0.30	1.24	21	none	12 544 525
25	182 x 0.41	6.80 ± 0.20	10.9 ± 0.40	0.795	30	none	12 547 257
35	266 x 0.41	7.80 ± 0.25	12.5 ± 0.40	0.565	41	none	12 547 260
50	378 x 0.41	9.50 ± 0.30	14.5 ± 0.40	0.393	58	none	12 545 521
70	348 x 0.51	11.5 ± 0.35	16.5 ± 0.40	0.277	77	none	12 547 262
95	444 x 0.51	12.9 ± 0.40	18.3 ± 0.50	0.210	100	none	12 547 264
120	551 x 0.51	14.8 ± 0.45	20.6 ± 0.50	0.164	126	none	12 545 522
150	722 x 0.51	16.8 ± 0.50	22.9 ± 0.50	0.132	161	none	12 547 268
185	874 x 0.51	18.5 ± 0.55	24.8 ± 0.60	0.108	192	none	12 545 523
240	1147 x 0.51	21.0 ± 0.65	27.8 ± 0.60	0.0817	247	none	12 547 678
300	1443 x 0.51	23.5 ± 0.70	30.8 ± 0.60	0.0654	300	none	12 551 573
400	2016 x 0.51	29.1 ± 0.70	36.5 ± 0.60	0.0495	422	none	12 564 160

Other colors available on request.

Technical Specification

Voltage rating 3.6/6.0 kV AC; 4.5/9 kV DC
 Test voltage 12 kV, 50 Hz, 15 min.
 Temperature range -40°C to +120°C

Other Versions

RADOX® 9 GKW-AX/EMC-L screened version
 RADOX® 9 GKW-AX FR version with insulation retention in case of a fire acc. to IEC 60331-1970
 RADOX® 9 GKW-AX J version for jumper applications

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

Waiver

While the information contained in this flyer has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the suitability of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The suitability of each product for any particular purpose must be checked beforehand with our specialists.



HUBER+SUHNER

HUBER+SUHNER AG
 Wire+Cable Division
 8330 Pfäffikon ZH, Switzerland
 Phone +41 (0)1 952 22 11
 Fax +41 (0)1 952 26 70
www.hubersuhner.com

HUBER+SUHNER - Excellence in Connectivity Solutions