



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.

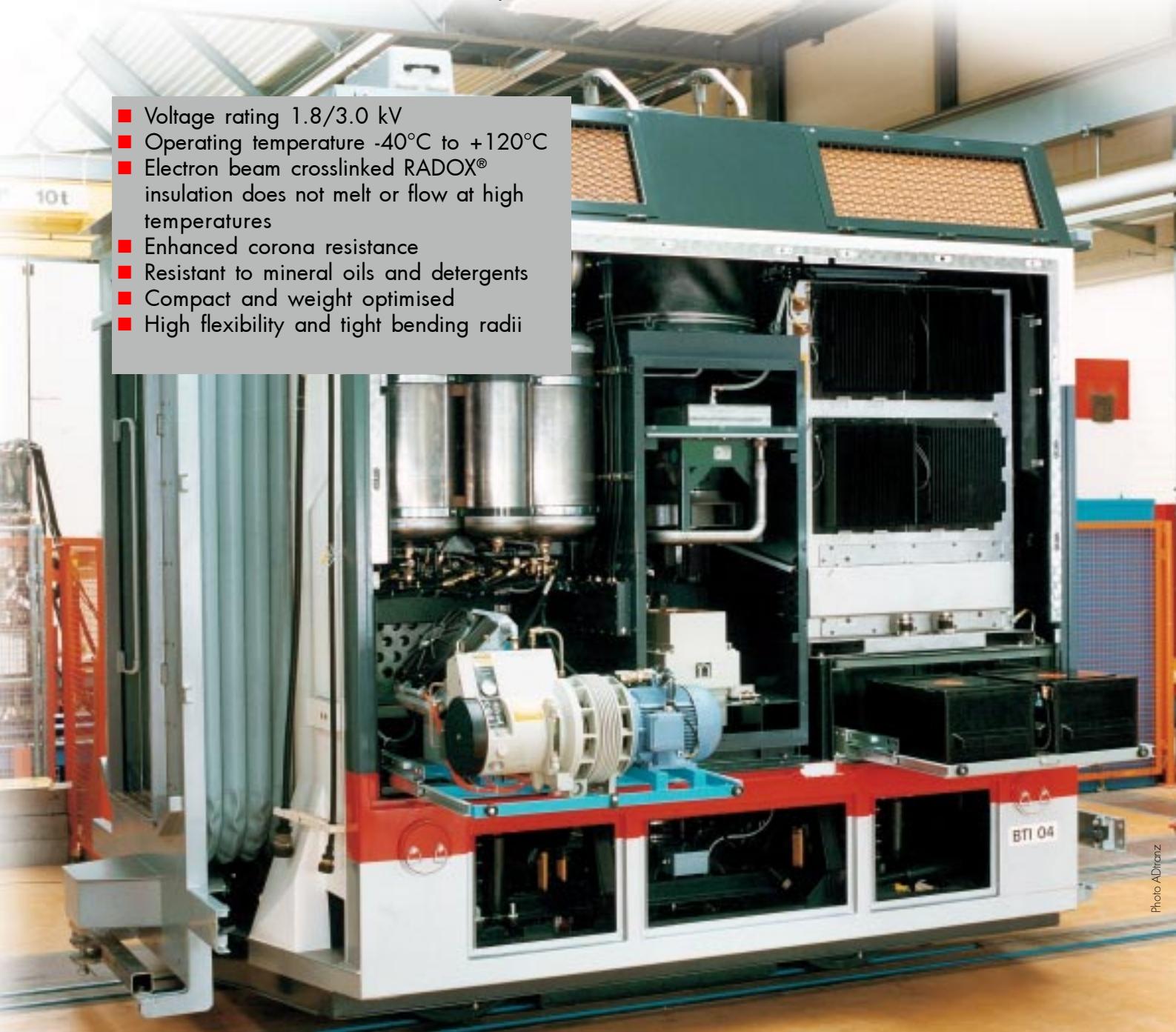
Fire performance classifications:

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 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 | 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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