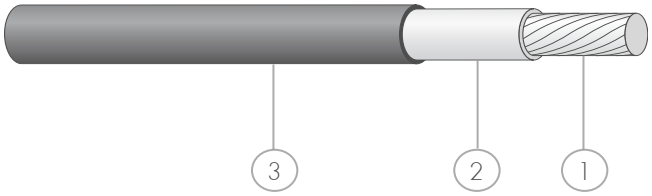
RADOX® 4 GKW-AX 1800V M single core

Conductor	EN 60228, class 5	Voltage rating	1800/3000 V AC
Number of conductors	1		2700/4500 V DC
Cross section	0.5 – 400 mm²	Temperature range	–50 to +120 °C



Composition of core

1. Conductor	stranded tin plated copper
2. Insulation	RADOX EI 110, colour: white
3. Sheath	RADOX EI 109, colour: black, further colours on request

Characteristics and specialities

- Complies with the most demanding of material requirements, as defined in EN 50264-3-1 1800V
  - extra low temperature
  - extra oil resistant
  - extra fuel resistance
- Resistance to ozone and weathering
- Broad product range

Application

- For protected connections of fixed and sporadic moving parts inside and outside of rolling stock.
- Guidelines for selections and the installation are described in the standards EN 50355 and EN50343.

Standards

Standard	Fire protection on railway vehicles	
BS 6853	category	int. Ia, Ib, II/ext. Ia, Ib, II
DIN 5510-2	hazard level	1, 2, 3, 4
EN 45545-2		
GOST 31565 (equivalent to GOST R 53315)		
NF F 16-101	class, category	C/F0, int. A1, A2, B/ext. A1, A2, B
NFPA 130		
UNI CEI 11170-3		

For further technical details please refer to our data sheet.

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single core

Cross section	Conductor		Core	Conductor resistance	Capacity*	Fire load	Weight		Item no.
mm²	Construction n × mm	D mm	D mm	R20 max. Ω/km	CH20 pF/m	nom. kJ/m	Copper kg/100 m	Cable kg/100 m	
0.5	19 × 0.18	0.90	2.45 ± 0.10	38.5	236	91	0.5	1.1	84118052
0.75	24 × 0.20	1.10	2.65 ± 0.10	26.7	276	102	0.7	1.4	84118059
1	37 × 0.18	1.20	3.00 ± 0.10	20.0	266	132	0.9	1.8	12555986
1.5	37 × 0.23	1.50	3.55 ± 0.10	13.7	307	157	1.4	2.5	12536686
2.5	61 × 0.23	1.95	3.75 ± 0.10	8.21	362	187	2.2	3.5	12536692
4	61 × 0.29	2.40	4.50 ± 0.10	5.1	396	257	3.5	5.2	12536694
6	84 × 0.30	2.95	5.20 ± 0.15	3.4	419	334	5.2	7.4	12536696
10	80 × 0.40	3.90	6.40 ± 0.15	1.95	488	467	9.1	12	12545527
16	119 × 0.40	5.30	8.40 ± 0.20	1.24	535	801	13	19	12545528
25	182 × 0.40	6.60	10.2 ± 0.30	0.8	565	1125	21	28	12545529
35	266 × 0.40	7.80	11.7 ± 0.30	0.57	607	1457	30	40	12545530
50	378 × 0.40	9.30	13.5 ± 0.30	0.39	660	1737	43	54	12545531
70	348 × 0.50	11.4	15.8 ± 0.30	0.28	755	2178	61	75	12545532
95	444 × 0.50	12.8	17.5 ± 0.30	0.21	808	2549	78	95	12545533
120	570 × 0.50	14.9	19.8 ± 0.30	0.16	862	3118	100	120	12544522
150	722 × 0.50	16.8	22.1 ± 0.30	0.13	894	3474	127	150	12545534
185	874 × 0.50	18.3	24.0 ± 0.30	0.11	903	4432	153	182	12544523
240	1147 × 0.50	21.1	27.0 ± 0.30	0.082	994	5225	201	235	12547684
300	1443 × 0.50	23.7	29.9 ± 0.40	0.065	1060	6106	251	291	12552906
400	1952 × 0.50	27.3	34.1 ± 0.50	0.005	1115	7639	342	392	12555997

* capacity in water, typical value

Other colours on request.
M: material designation according to EN 50264-1