

# RADOX® 4 GWK-AX

1800 V M

Single Core

Conductor	EN 60228, class 5	Voltage rating	1800/3000 V AC
Number of conductors	1		2700/4500 V DC
Cross section	1.5 - 400 mm <sup>2</sup>	Temperature range	-40 °C 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

## Characteristics and specialities

- Fully meet the requirements of material level M according to EN 50264-1
  - outstanding low temperature
  - high fuel resistance
- Resistance to ozone and weathering
- Large 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
CEN/TS 45545		
DIN 5510-2	Protection level	1, 2, 3, 4
NF F 16-101	Class, category	C / F0, int. A1, A2, B / ext. A1, A2, B
UNI CEI 11170		

For further technical details please refer to our data sheet.

Cross section mm <sup>2</sup>	Conductor		Core	Conductor resistance	Capacitance **	Fire load	Weight		Item no.
	construction* n x mm	d mm	d mm	R <sub>20</sub> max. Ω/km	C <sub>H20</sub> pF/m	nom. kJ/m	copper kg/100 m	cable kg/100 m	
0.5	19 x 0.18	0.90	2.45 ± 0.05	38.5	236	91	0.40	1.10	12547128
0.75	24 x 0.21	1.10	2.65 ± 0.05	26.7	276	102	0.70	1.4	12548299
1	37 x 0.18	1.20	3.00 ± 0.05	20.0	266	132	0.90	1.8	12555986
1.5	37 x 0.23	1.50	3.55 ± 0.10	13.7	307	157	1.4	2.5	12536686
2.5	61 x 0.23	1.95	3.90 ± 0.10	8.21	343	205	2.2	3.6	12536692
4	61 x 0.29	2.45	4.50 ± 0.10	5.09	396	257	3.5	5.2	12536694
6	84 x 0.30	2.95	5.20 ± 0.15	3.39	419	334	5.2	7.4	12536696
10	80 x 0.40	3.90	6.40 ± 0.15	1.95	488	467	9.1	12	12545527
16	119 x 0.40	5.30	8.40 ± 0.20	1.24	535	801	13	19	12545528
25	182 x 0.40	6.60	10.2 ± 0.30	0.795	565	1125	21	28	12545529
35	266 x 0.40	7.80	11.7 ± 0.30	0.565	607	1457	30	40	12545530
50	378 x 0.40	9.30	13.5 ± 0.30	0.393	660	1737	43	54	12545531
70	348 x 0.50	11.4	15.8 ± 0.30	0.277	755	2178	61	75	12545532
95	444 x 0.50	12.8	17.5 ± 0.30	0.210	808	2549	78	95	12545533
120	570 x 0.50	14.9	19.8 ± 0.30	0.164	862	3118	100	120	12544522
150	722 x 0.50	16.8	22.1 ± 0.30	0.132	894	3474	127	150	12545534
185	874 x 0.50	18.3	24.0 ± 0.30	0.108	903	4432	153	182	12544523
240	1147 x 0.50	21.1	27.0 ± 0.30	0.0817	994	5225	201	235	12547684
300	1443 x 0.50	23.7	29.9 ± 0.30	0.0654	1060	6106	251	291	12552906
400	2016 x 0.50	29.1	34.1 ± 0.50	0.0495	1115	7639	342	392	12555997

\* Typical value x single wire diameter

\*\* Capacity in water, typical value