

# RADOX® 3 GWK

# Single Core

Conductor	EN 60228, class 5	Voltage rating	600/1000 V AC
Number of conductors	1		900/1500 V DC
Cross section	0.5 - 400 mm <sup>2</sup>	Temperature range	-40 °C to +120 °C



### Composition of core

1. Conductor	stranded tin plated copper	
2. Insulation	RADOX GWK J	colour: grey

### Characteristics and specialities

- Flame retardant
- Low smoke
- Halogen free
- Low toxicity
- Soldering resistant
- Easy to strip
- Flexible
- Weight optimized

### Application

- Typical applications include carriage wiring, terminal boxes, power supply to various systems and ground connections inside railway rolling stock at fixed or sporadic moving installations.
- Guidelines for selection and the installation are described in the standards EN 50355 and EN 50343.

### 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	Weight		Item no.
	construction* n x mm	d <sub>nom.</sub> mm	d mm	R <sub>20</sub> max. Ω/km	copper kg/100 m	cable kg/100 m	
0.5	19 x 0.18	0.90	2.00 ± 0.10	40.1	0.45	0.90	12548125
0.75	24 x 0.21	1.10	2.20 ± 0.10	26.7	0.70	1.20	12548126
1	37 x 0.18	1.22	2.45 ± 0.10	20.0	0.90	1.40	12551402
1.5	30 x 0.26	1.50	2.70 ± 0.10	13.7	1.40	2.00	12545286
2.5	61 x 0.23	1.95	3.30 ± 0.10	8.21	2.20	3.10	12545288
4	61 x 0.29	2.45	3.95 ± 0.10	5.09	3.50	4.70	12545290
6	84 x 0.30	2.95	4.70 ± 0.15	3.39	5.20	6.90	12548127
10	80 x 0.40	3.90	5.85 ± 0.15	1.95	9.10	11.30	12545153
16	119 x 0.40	5.30	7.25 ± 0.15	1.24	13.50	16.60	12545292
25	182 x 0.40	6.60	8.90 ± 0.20	0.795	21	25	12543216
35	266 x 0.40	7.80	10.2 ± 0.20	0.565	30	35	12548128
50	378 x 0.40	9.30	11.9 ± 0.20	0.393	43	50	12545155
70	348 x 0.50	11.40	14.3 ± 0.25	0.277	61	69	12543214
95	444 x 0.50	12.90	15.9 ± 0.25	0.210	78	90	12548671
120	570 x 0.50	14.90	17.9 ± 0.30	0.164	100	118	12542936
150	722 x 0.50	16.80	20.3 ± 0.30	0.132	127	146	12548673
185	874 x 0.50	18.30	22.0 ± 0.30	0.108	150	178	12551404
240	1147 x 0.50	21.10	25.2 ± 0.30	0.0817	200	230	12551406
300	1443 x 0.50	23.70	28.0 ± 0.30	0.0654	250	300	12555741
400	2016 x 0.50	27.30	33.8 ± 0.30	0.0495	353	400	12557104

\* Typical value x single wire diameter

Other colours on request.