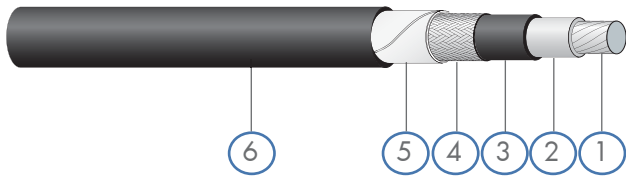


RADOX® 4 GWK-AX EMC-L

Single Core screened

Conductor	EN 60228, class 5	Voltage rating	1800/3000 V AC
Number of conductors	1		2700/4500 V DC
Cross section	1.5 - 300 mm ²	Temperature range	-40 °C to +120 °C



Composition of cable

1. Conductor	stranded tin plated copper	
2. Insulation	RADOX GWK K	colour: white
3. Sheath	RADOX GWK S	colour: black
4. EMC screen	tin plated copper braid, reduced coverage	
5. Separator	tape	
6. Sheath	RADOX GWK S	colour: black

Characteristics and specialities

- Resistance to oil, ozone and weathering

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 ²	Conductor		Core			Cable		Conductor resistance		I _K **	I ***	Z _T	Capacitance C pF/m	Fire load nom. kJ/m	Weight		Item no.
	construction* n x mm	d _{nom.} mm	d _{nom.} mm	d _{max.} mm	cross section mm ²	d mm	conductor R ₂₀ max. Ω/km	screen R ₂₀ max. Ω/km	screen A						screen A	max. mΩ/m	
1.5	37 x 0.23	1.50	3.35	3.7	0.9	5.20 ± 0.15	13.7	21.33	355	18	100	254	363	2.1	4.8	12556535	
2.5	61 x 0.23	1.95	3.90	4.8	1.0	5.80 ± 0.15	8.21	18.66	405	20	100	292	440	3.2	6.3	12556536	
4	61 x 0.29	2.45	4.50	5.1	1.3	6.70 ± 0.15	5.09	14.14	529	24	100	322	584	4.6	8.9	12556537	
6	84 x 0.30	2.93	5.20	5.7	1.5	7.40 ± 0.15	3.39	12.43	606	26	100	350	701	6.5	12	12556538	
10	80 x 0.4	3.89	6.40	7.1	2.0	9.00 ± 0.2	1.95	9.48	795	30	100	392	1003	11	18	12556539	
16	119 x 0.4	5.30	8.40	9.3	3.5	11.2 ± 0.2	1.24	5.70	1363	42	100	447	1489	17	28	12556540	
25	182 x 0.4	6.60	10.20	11.2	4.2	13.4 ± 0.25	0.795	4.62	1637	48	100	451	2181	25	40	12556541	
35	266 x 0.4	7.80	11.70	12.7	4.9	14.8 ± 0.25	0.565	3.98	1907	52	100	489	2557	35	51	12556542	
50	378 x 0.4	9.30	13.50	14.7	5.6	16.8 ± 0.3	0.393	3.50	2182	57	100	512	3138	48	70	12556543	
70	348 x 0.5	11.4	15.80	16.9	8.0	19.0 ± 0.3	0.277	2.67	3120	67	100	619	3867	69	92	12556544	
95	444 x 0.5	12.8	17.50	18.6	9.2	20.7 ± 0.3	0.210	2.34	3564	73	100	640	4228	87	116	12556545	
120	570 x 0.5	14.9	19.80	21.0	10.2	23.4 ± 0.3	0.164	2.10	3960	78	100	650	5471	104	145	12556546	
150	722 x 0.5	16.8	22.10	23.6	15.7	25.9 ± 0.3	0.132	1.33	6066	103	100	719	6143	142	183	12556547	
185	874 x 0.5	18.3	24.00	25.5	15.7	27.8 ± 0.3	0.108	1.37	6066	101	100	725	7034	168	213	12556548	
240	1147 x 0.5	21.1	27.00	28.9	20.7	31.2 ± 0.3	0.0817	0.93	8023	129	100	791	8606	221	291	12556549	
300	1443 x 0.5	23.7	29.90	31.8	22.1	34.2 ± 0.3	0.0654	0.95	8560	127	100	918	9618	276	337	12558471	

* Typical value x single wire diameter

** Short-circuit current rating of screen acc. to IEC 60949 (adiabatic), duration of short-circuit 0.1 s, initial temperature +90 °C, final temperature +200 °C

*** Permissible continuous current of screen under standard conditions of current rating acc. to table current rating 4/9GWK-AX single core cables 557 578

EMC = Electromagnetic Compatibility
L = Reduced Screen Coverage