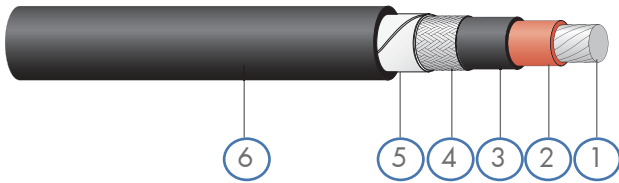


RADOX® 9 GWK-AX EMC-L

Single Core screened

Conductor	EN 60228, class 5	Voltage rating	3600/6000 V AC
Number of conductors	1		5400/9000 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: red
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, 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	
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 d mm	Conductor resistance		I _K **	I***	Z _T	Capacitance **** C _{H20} 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		R ₂₀ max. Ω/km	screen R ₂₀ max. Ω/km						screen A	screen A	
1.5	37 x 0.23	1.50	4.50	5.0	1.1	6.60 ± 0.15	13.7	16.9	456	21	100	171	632	2.6	7.2	12556520
2.5	61 x 0.23	1.95	5.10	5.5	1.5	7.20 ± 0.15	8.21	12.6	606	26	100	205	733	3.7	8.9	12556521
4	61 x 0.29	2.50	5.70	6.4	1.9	8.20 ± 0.15	5.09	10.2	738	29	100	223	937	5.2	12	12556522
6	84 x 0.31	2.95	6.30	7.2	2.0	9.10 ± 0.20	3.39	9.52	795	30	100	243	1083	7.2	15	12556523
10	80 x 0.41	3.90	7.50	8.4	3.2	10.4 ± 0.20	1.95	6.03	1270	40	100	293	1266	12	22	12556524
16	119 x 0.41	5.30	9.40	10.4	5.3	12.4 ± 0.25	1.24	4.73	2077	47	100	337	1967	18	33	12556525
25	182 x 0.41	6.60	11.0	11.8	4.2	14.3 ± 0.25	0.795	4.7	1637	47	100	373	2671	25	39	12556526
35	266 x 0.41	7.80	12.60	13.5	4.9	15.7 ± 0.30	0.565	4.01	1907	52	100	408	3168	35	55	12556527
50	378 x 0.41	9.30	14.60	15.5	5.6	17.7 ± 0.30	0.393	3.85	2182	53	100	431	3833	49	74	12556528
70	348 x 0.51	11.40	16.70	17.7	9.2	20.0 ± 0.30	0.277	2.21	3564	75	100	518	4610	70	97	12556529
95	444 x 0.51	12.90	18.70	19.9	14.1	22.0 ± 0.30	0.210	1.48	5460	97	100	519	5124	92	124	12556530
120	570 x 0.51	14.90	21.00	22.2	13.7	24.7 ± 0.30	0.164	1.46	5305	97	100	538	6646	107	151	12556531
150	722 x 0.51	16.80	23.20	24.5	15.7	27.1 ± 0.30	0.132	1.31	6066	104	100	596	7372	142	190	12556532
185	874 x 0.51	18.30	25.00	26.2	15.7	29.1 ± 0.30	0.108	1.31	6066	104	100	609	8388	169	222	12556533
240	1147 x 0.51	21.10	28.00	29.6	20.7	32.3 ± 0.30	0.0817	0.94	8024	128	100	673	9701	221	283	12556534
300	1443 x 0.51	23.70	30.80	32.7	22.1	35.6 ± 0.50	0.0654	1.04	8560	120	100	730	11206	278	352	12558472

* 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 4/9 GKW single core cables 557 578

**** Capacity in water, typical value

EMC = Electromagnetic compatibility
L = Reduced screen coverage