

RADOX® 4 GKW-AX 1800V M

halogen-free, compact power cable



RADOX® 4 GKW-AX 1800V M 1x6 mm²

Technical data

- compliant with the requirements acc. to EN 50264-3-1
- Temperature range**
flexible -50°C to +120°C
fixed -50°C to +120°C
- Nominal voltage**
U₀/U 1800/3000 V
- Test voltage**
6500 V
- Minimum bending radius**
flexible
≤ 12 mm 4x Outer-Ø
> 12 mm 5x Outer-Ø
fixed
≤ 12 mm 3x Outer-Ø
> 12 mm 4x Outer-Ø

Cable structure

- Copper wire tinned, finely stranded acc. to EN 60228 cl.5
- Core insulation: RADOX® EI 110
- Core identification: white
- Outer sheath: RADOX® EI 109
- Outer sheath colour: see table
- Two-layer insulation made of high-tech polymers with excellent electrical properties

Properties

- halogen-free and flame-retardant
- very good resistance to: oil, fuel, ozone and weather influences
- cold flexible
- heat resistant
- electron beam cross-linked RADOX® insulation does not melt or flow
- compliant with the essential fire protection standards

Tests

- BS 6853 category int. Ia, Ib, II/ext. Ia, Ib, II
- DIN 5510-2 fire protection level 1, 2, 3, 4
- EN 45545-2 HL1 - HL3
- NFPA 130
- NF F16-101 classification, category C/F0, int. A1, A2, B/ext. A1, A2, B
- UNI CEI 11170 LR1 - LR4

Note

- please find further technical information in the H&S product data sheet
- other dimensions and colours on request

Application

- The cables are intended for fixed installation in rail vehicles or for installation where limited alternating bending stress occurs during operation.
- Specifications concerning the selection and installation of cables are described in the standards EN 50355 and EN 50343.
- For unscreened cables, the specifications according to EN 50153 must be observed.

Part no.	Part no. H&S	No. cores x cross-sec. mm ²	Outer Ø app. mm	Weight app. kg / km	Copper weight kg / km
35223	84118052	1 x 0,5 BK	2,5	11	4,8
11006746	84118058	1 x 0,5 GY	2,5	11	4,8
11006743	84118053	1 x 0,5 BN	2,5	11	4,8
11006744	84118056	1 x 0,5 BU	2,5	11	4,8
11006745	84118057	1 x 0,5 RD	2,5	11	4,8
11006761	85068090	1 x 0,5 OG	2,5	11	4,8
11006747	84118059	1 x 0,75 BK	2,7	14	7,2
11006763	85070897	1 x 0,75 RD	2,7	14	7,2
34458	12555986	1 x 1 BK	3,0	18	9,6
11006738	12584492	1 x 1 BN	3,0	18	9,6
11006740	12586321	1 x 1 YE	3,0	18	9,6
34459	12536686	1 x 1,5 BK	3,4	24	14,4
11006731	12567226	1 x 1,5 GY	3,4	24	14,4
11006765	85078975	1 x 1,5 BN	3,4	24	14,4
11006723	12543842	1 x 1,5 BU	3,4	24	14,4
11006764	85078973	1 x 1,5 WH	3,4	24	14,4
11006728	12562189	1 x 1,5 YE	3,4	24	14,4
35241	12555769	1 x 1,5 RD	3,4	24	14,4
34460	12536692	1 x 2,5 BK	3,8	34	24,0
11006742	84091279	1 x 2,5 GY	3,8	34	24,0
11006739	12584664	1 x 2,5 BN	3,8	34	24,0
11006760	85067625	1 x 2,5 BU	3,8	34	24,0
11006725	12554310	1 x 2,5 RD	3,8	34	24,0
11006759	85067621	1 x 2,5 YE	3,8	34	24,0
34461	12536694	1 x 4 BK	4,5	52	38,4
34938	85066538	1 x 4 BU	4,5	52	38,4
34940	12559555	1 x 4 RD	4,5	52	38,4
11006750	85023707	1 x 4 WH	4,5	52	38,4
34939	85067561	1 x 4 YE	4,5	52	38,4
34462	12536696	1 x 6 BK	5,2	74	57,6
11006732	12568594	1 x 6 BU	5,2	74	57,6
11006736	12582984	1 x 6 RD	5,2	74	57,6
11006741	84090550	1 x 6 WH	5,2	74	57,6

Part no.	Part no. H&S	No. cores x cross-sec. mm ²	Outer Ø app. mm	Weight app. kg / km	Copper weight kg / km
11006751	85031740	1 x 6 YE	5,2	74	57,6
34463	12545527	1 x 10 BK	6,4	123	96,0
11006758	85067547	1 x 10 BU	6,4	123	96,0
11006737	12582985	1 x 10 RD	6,4	123	96,0
11006757	85067546	1 x 10 YE	6,4	123	96,0
34464	12545528	1 x 16 BK	8,4	192	153,6
11006755	85067520	1 x 16 BU	8,4	192	153,6
11006729	12566008	1 x 16 RD	8,4	192	153,6
11006756	85067521	1 x 16 YE	8,4	192	153,6
34465	12545529	1 x 25 BK	10,2	288	240,0
11006733	12568968	1 x 25 RD	10,2	288	240,0
34466	12545530	1 x 35 BK	11,7	406	336,0
11006748	85019626	1 x 35 BU	11,7	406	336,0
35201	12568008	1 x 35 RD	11,7	406	336,0
11006749	85019627	1 x 35 YE	11,7	406	336,0
34467	12545531	1 x 50 BK	13,5	561	480,0
11006734	12582459	1 x 50 RD	13,5	561	480,0
34468	12545532	1 x 70 BK	15,8	749	672,0
11006730	12566010	1 x 70 RD	15,8	749	672,0
34469	12545533	1 x 95 BK	17,5	959	912,0
11006735	12582460	1 x 95 RD	17,5	959	912,0
34470	12544522	1 x 120 BK	19,8	1217	1152,0
11006762	85070814	1 x 120 RD	19,8	1217	1152,0
34471	12545534	1 x 150 BK	22,1	1522	1440,0
11006753	85067494	1 x 150 BU	22,1	1522	1440,0
11006752	85067468	1 x 150 RD	22,1	1522	1440,0
11006754	85067495	1 x 150 YE	22,1	1522	1440,0
34472	12544523	1 x 185 BK	24,0	1841	1776,0
11006727	12559659	1 x 185 RD	24,0	1841	1776,0
34752	12547684	1 x 240 BK	27,0	2344	2304,0
11006724	12552906	1 x 300 BK	29,9	2913	2880,0
11006726	12555997	1 x 400 BK	34,1	3885	3840,0

Dimensions and specifications may be changed without prior notice