



Traction Cable

Radox GKW-LW/S EMC

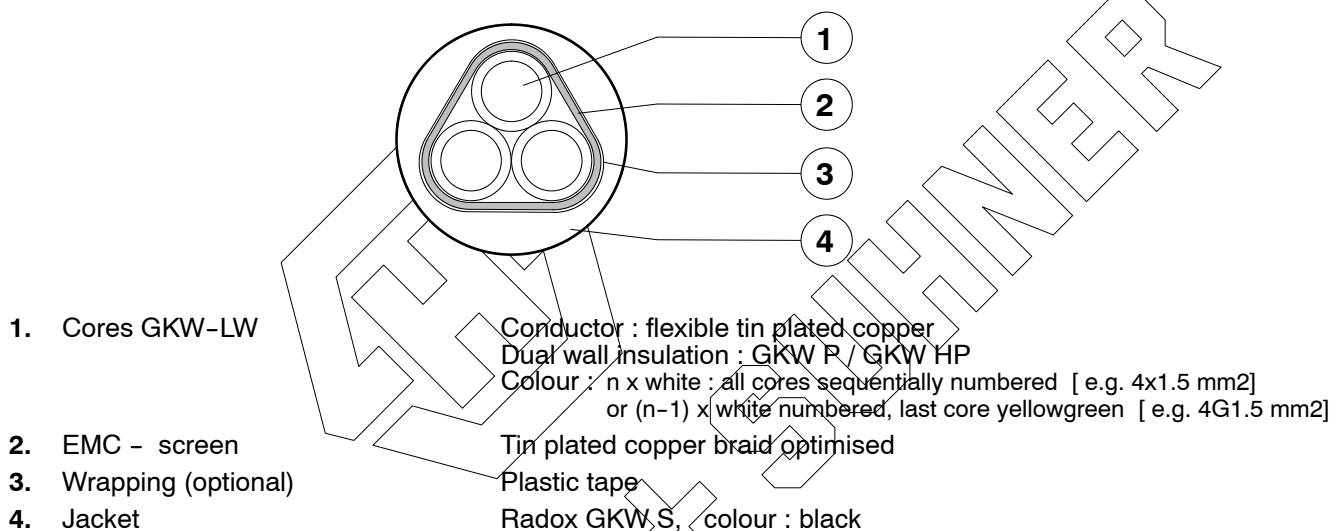
General Properties :

Excellent high temperature, low temperature, ozone, diesel oil and weathering resistance, zero halogen, flame retardant, easily strippable, flexible; excellent screening properties.

Application :

For permanent protected installation inside equipment, on cable trays etc. inside and outside of railway rolling stock, buses and other vehicles.

General composition of cable :



Cable marking H + S 125zzzzzz-zzzzzzz Radox GKW-LW/ S EMC n x ... mm²
except 1.0 mm² : Production lot number

Cable marking H + S 125zzzzzz-zzzzzzz Radox GKW-LW/S EMC n x 1.0 mm² (18 AWG)
only 1.0 mm² : Production lot number

Technical Data :

Voltage U ₀ /U	600/1000	V AC
	900/1500	V DC
Test voltage 50 Hz, 5 min	3 500	V
Max. conductor temperature continuous	+ 120	°C
Min. operating temperature	- 40	°C
Min. bending radius	free installation	D ≤ 10 mm 5 x D
		D > 10 mm 6 x D
	fixed installation	D ≤ 10 mm 3 x D
		D > 10 mm 4 x D

where D : cable diameter (see table)

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The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

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The cables comply with the following standards for fire protection on railway vehicles

BS 6853	Interior cables	Vehicle category	Ia, Ib, II
	Exterior cables	Vehicle category	Ia, Ib, II
DIN 5510	Level of fire protection		1, 2, 3, 4
NF F16-101	Classification		C / F0
	Interior cables	Vehicle category	A1, A2, B
	Exterior cables	Vehicle category	A1, A2, B

The cables pass the following fire tests

Vertical flame spread of bunched cables		BS 4066-3, modified to BS 6853
Smoke density		BS 6853 annex D
Toxic fume	$R \leq 1.0$	BS 6853 annex B
Vertical flame spread of a single cable		DIN EN 50265-2-1
Vertical flame spread of bunched cables	Category C	DIN EN 50266-2-4
Vertical flame spread of bunched cables	Category D	DIN EN 50266-2-5
Smoke density		DIN EN 50268-2
Vertical flame spread of bunched cables		NF C32-070 test 2
Smoke density	smoke index ≤ 5	NF X10-702-2
Toxic fume	smoke index ≤ 5	NF X70-100
Vertical flame spread of a single cable		IEC 60332-1, EN 50265-2-1
Vertical flame spread of bunched cables	Category C	IEC 60332-3-24, EN 50266-2-4
Amount of halogen acid gas	0 mg/g	IEC 60754-1, EN 50267-2-1
Corrosivity of combustion gases		IEC 60754-2, EN 50267-2-3
Smoke density		IEC 61034-2, EN 50268-2

Applicable standards :

H+S : 563078 (e) : Technical Datasheet : Traction cable Radox GKW-LW Current rating for multicore cables
H+S : 97382-0701(e)1.doc : Technical Specification GKW-LW Thin Wall Single Core Cables



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Table :

Cable type n x mm ²	Conductor construction* n x mm		Core-D D _{nom} mm		Screen D _{max} mm		Cable-D D _{nom} mm		R ₂₀ cond. Ω/km		I _k ** screen A	Z _T max mΩ/m	C core/core pF/m	Fire load kJ/m	Weight copper cable kg/100m		H + S Part No.
2 x 2 x 0.25	19 x 0.13	0.60	1.02	4.4	1.3	5.7 ± 0.3		88.5	15.2	500	170	100	170	430	2.15	4.89	12 566 633
3 x 2 x 0.25	19 x 0.13	0.60	1.02	4.7	1.3	6.1 ± 0.3		88.5	16.2	500	150	100	170	460	2.67	5.72	12 566 634
4 x 2 x 0.25	19 x 0.13	0.60	1.02	5.6	1.77	7.0 ± 0.3		88.5	11.8	550	100	100	170	670	3.4	7.2	12 581 506
7 x 2 x 0.25	19 x 0.13	0.60	1.02	6.2	2	7.8 ± 0.3		88.5	10.2	760	100	100	170	710	5.1	9.2	12 566 694
25 x 0.25	19 x 0.13	0.60	1.02	7.3	2.8	8.9 ± 0.3		88.5	7.8	890	80	100	170	925	8.2	13.9	12 567 868



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Cable type n x mm ²	Conductor construction* n x mm	Conductor D _{nom} mm	Core-D D _{nom} mm	Screen D _{max} mm	Screen size mm ²	Cable-D D _{nom} mm	R ₂₀ cond. Ω/km	I _K ** screen A	Z _T max mΩ/m	C core/core pF/m	Fire load kJ/m	Weight copper cable kg/100m	H + S Part No.
2 x 0.50	19 x 0.18	0.90	1.30	3.1	0.63	4.3 ± 0.3	40.1	31.1	200	110	190	1.6	12 555 592
3 x 0.50	19 x 0.18	0.90	1.30	3.3	0.75	4.5 ± 0.3	40.1	25.9	200	110	190	2.2	12 555 593
4 x 0.50	19 x 0.18	0.90	1.30	3.6	0.88	4.8 ± 0.3	40.1	22.2	150	110	190	2.8	12 555 594
5 x 0.50	19 x 0.18	0.90	1.30	4.1	0.94	5.4 ± 0.3	40.1	20.7	150	110	190	3.3	12 555 595
6 x 0.50	19 x 0.18	0.90	1.30	4.6	1.3	5.9 ± 0.3	40.1	14.7	100	110	190	4.2	12 555 596
7 x 0.50	19 x 0.18	0.90	1.30	5.0	1.5	6.3 ± 0.3	40.1	12.8	100	110	190	4.8	12 555 603
8 x 0.50	19 x 0.18	0.90	1.30	5.5	1.7	6.8 ± 0.3	40.1	11.3	100	110	190	5.3	12 561 467
9 x 0.50	19 x 0.18	0.90	1.30	5.8	1.8	7.2 ± 0.3	40.1	10.5	60	110	190	6.1	12 558 109
10 x 0.50	19 x 0.18	0.90	1.30	5.8	1.8	7.2 ± 0.3	40.1	10.5	60	110	190	6.6	12 555 597
12 x 0.50	19 x 0.18	0.90	1.30	6.0	1.8	7.4 ± 0.3	40.1	10.5	60	110	190	7.5	12 555 598
15 x 0.50	19 x 0.18	0.90	1.30	6.8	2.8	8.5 ± 0.3	40.1	6.92	40	110	190	9.9	12 558 110
16 x 0.50	19 x 0.18	0.90	1.30	6.8	2.1	8.5 ± 0.3	40.1	9.13	40	110	190	9.7	12 555 600
18 x 0.50	19 x 0.18	0.90	1.30	7.4	2.8	8.9 ± 0.3	40.1	6.92	40	110	190	11.3	12 555 601
20 x 0.50	19 x 0.18	0.90	1.30	7.9	3.25	9.3 ± 0.3	40.1	6.25	25	110	190	12.3	12 562 202
22 x 0.50	19 x 0.18	0.90	1.30	8.3	3.3	9.9 ± 0.3	40.1	5.93	25	110	190	13.7	12 558 111
25 x 0.50	19 x 0.18	0.90	1.30	8.5	3.5	10.3 ± 0.4	40.1	5.53	25	110	190	15.3	12 555 602
27 x 0.50	19 x 0.18	0.90	1.30	8.8	3.7	10.5 ± 0.4	40.1	5.19	25	110	190	16.5	12 559 007
30 x 0.50	19 x 0.18	0.90	1.30	9.4	4.8	11.3 ± 0.4	40.1	4.07	25	110	190	18.9	12 559 008
36 x 0.50	19 x 0.18	0.90	1.30	10.1	5.1	12.1 ± 0.4	40.1	3.78	25	110	190	22.1	12 559 009
42 x 0.50	19 x 0.18	0.90	1.30	11.0	5.9	12.9 ± 0.4	40.1	3.30	25	110	190	25.3	12 559 010
48 x 0.50	19 x 0.18	0.90	1.30	12.1	6.9	13.6 ± 0.4	40.1	2.83	60	110	190	28.1	12 561 833
50 x 0.50	19 x 0.18	0.90	1.30	12.2	7.9	14.2 ± 0.4	40.1	2.45	25	110	190	31.6	12 559 011



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2 x 2 x 0.50	19 x 0.18	0.90	5.0	1.4	6.4 ± 0.3	41.4	440	200	110	650	3.3	12 555 604
3 x 2 x 0.50	19 x 0.18	0.90	5.7	1.7	6.7 ± 0.3	41.4	530	150	110	580	4.7	12 561 834
4 x 2 x 0.50	19 x 0.18	0.90	6.0	1.7	7.4 ± 0.3	41.4	530	150	110	660	5.5	12 555 605
5 x 2 x 0.50	19 x 0.18	0.90	7.8	2.8	9.3 ± 0.3	41.4	890	60	110	950	7.4	12 566 533
6 x 2 x 0.50	19 x 0.18	0.90	7.7	3.0	9.2 ± 0.3	41.4	950	60	110	1040	8.7	12 557 170
8 x 2 x 0.50	19 x 0.18	0.90	7.9	3.2	9.7 ± 0.3	41.4	1000	40	110	1000	10.8	12 555 930
10 x 2 x 0.50	19 x 0.18	0.90	9.1	3.7	10.9 ± 0.4	41.4	1170	40	110	1270	13.2	12 555 606
12 x 2 x 0.50	19 x 0.18	0.90	10.1	5.1	12.1 ± 0.4	41.4	1600	40	110	1390	16.5	12 562 825
15 x 2 x 0.50	19 x 0.18	0.90	11.1	5.9	13.0 ± 0.4	41.4	1850	25	110	1820	20.1	12 555 607
16 x 2 x 0.50	19 x 0.18	0.90	11.1	5.9	13.0 ± 0.4	41.4	1850	40	110	1790	21	12 560 140
20 x 2 x 0.50	19 x 0.18	0.90	12.4	7.9	14.4 ± 0.4	41.4	2500	55	110	2390	26.9	12 561 619
2 x 3 x 0.50	19 x 0.18	0.90	5.9	1.77	7.3 ± 0.3	41.4	650	80	110	740	4.52	12 581 433



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Cable type n x mm ²	Conductor construction* n x mm		Core-D D _{nom} mm	Screen D _{max} mm		Cable-D D _{nom} mm	R ₂₀ cond. Ω/km		I _k ** screen A	Z _T max mΩ/m	C core/core pF/m		Fire load kJ/m	Weight copper cable kg/100m		H + S Part No.
2 x 0.75	19 x 0.22	1.12	1.52	3.6	0.95	4.8 ± 0.3	26.7	23.5	300	150	120	205	286	2.2	4.0	12 556 629
3 x 0.75	19 x 0.22	1.12	1.52	3.9	1.0	5.0 ± 0.3	26.7	18.7	315	150	120	205	325	3.0	5.0	12 556 636
4 x 0.75	19 x 0.22	1.12	1.52	4.3	1.1	5.5 ± 0.3	26.7	17.1	345	100	120	205	390	3.8	6.2	12 556 630
5 x 0.75	19 x 0.22	1.12	1.52	4.9	1.1	6.1 ± 0.3	26.7	17.3	345	100	120	205	535	4.4	7.5	12 556 637
6 x 0.75	19 x 0.22	1.12	1.52	5.2	1.7	6.6 ± 0.3	26.7	11.4	530	100	120	205	595	5.7	8.5	12 556 638
7 x 0.75	19 x 0.22	1.12	1.52	5.9	1.8	7.2 ± 0.3	26.7	10.5	570	100	120	205	725	6.5	10.0	12 556 639
8 x 0.75	19 x 0.22	1.12	1.52	6.4	1.9	7.8 ± 0.3	26.7	9.80	600	50	120	205	900	7.3	11.3	12 556 631
10 x 0.75	19 x 0.22	1.12	1.52	6.7	1.7	8.1 ± 0.3	26.7	11.4	530	50	120	205	780	8.3	13.0	12 556 640
12 x 0.75	19 x 0.22	1.12	1.52	6.9	2.2	8.4 ± 0.3	26.7	8.60	690	50	120	205	850	10.2	15.0	12 556 632
14 x 0.75	19 x 0.22	1.12	1.52	7.5	2.8	9.1 ± 0.3	26.7	7.25	880	80	120	205	945	12.5	17.0	12 561 835
16 x 0.75	19 x 0.22	1.12	1.52	8.1	3.2	9.7 ± 0.3	26.7	5.90	1000	25	120	205	1140	13.9	20.6	12 556 419
18 x 0.75	19 x 0.22	1.12	1.52	8.4	3.5	10.2 ± 0.4	26.7	5.50	1100	25	120	205	1300	15.4	23.0	12 556 641
20 x 0.75	19 x 0.22	1.12	1.52	9.1	3.76	11.1 ± 0.4	26.7	5.45	1180	50	120	205	1480	17.5	25.8	12 581 886
24 x 0.75	19 x 0.22	1.12	1.52	10.3	5.5	12.0 ± 0.4	26.7	3.50	1700	25	120	205	1580	21.4	29.4	12 561 836
25 x 0.75	19 x 0.22	1.12	1.52	10.3	5.5	12.3 ± 0.4	26.7	3.50	1700	25	120	205	1610	22.1	30.0	12 556 480



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Cable type n x mm ²	Conductor construction* n x mm	Conductor D _{nom} mm	Core-D D _{nom} mm	Screen D _{max} mm	Screen size mm ²	Cable-D D _{nom} mm	R ₂₀ cond. Ω/km	screen Ω/km	I _k ** screen A	Z _T max mΩ/m	C core/core pF/m	Fire load kJ/m	Weight copper cable kg/100m	H + S Part No.
2 x 2 x 0.75	19 x 0.22	1.12	1.52	5.8	1.7	7.1 ± 0.3	27.6	11.4	530	150	205	670	4.4	12 558 422
3 x 2 x 0.75	19 x 0.22	1.12	1.52	6.2	1.7	7.6 ± 0.3	27.6	11.4	530	150	205	800	5.7	12 558 423
4 x 2 x 0.75	19 x 0.22	1.12	1.52	6.2	2.36	9.9 ± 0.3	27.6	9.0	740	60	205	970	8.3	12 568 688
5 x 2 x 0.75	19 x 0.22	1.12	1.52	8.9	3.53	10.7 ± 0.4	27.6	5.95	1115	60	205	1240	10.4	12 562 002
6 x 2 x 0.75	19 x 0.22	1.12	1.52	9.9	5.17	11.9 ± 0.4	27.6	3.92	1640	65	205	1560	14.6	12 564 824
7 x 2 x 0.75	19 x 0.22	1.12	1.52	9.9	6.15	13.4 ± 0.4	27.6	3.37	1940	40	205	2130	15.8	12 568 689
8 x 2 x 0.75	19 x 0.22	1.12	1.52	11.0	6.15	13.2 ± 0.4	27.6	3.29	1940	60	205	2170	17.2	12 568 613
10 x 2 x 0.75	19 x 0.22	1.12	1.52	11.0	6.92	14.8 ± 0.4	27.6	3.0	2180	60	205	2120	20.8	12 568 690
3 x 3 x 0.75	19 x 0.22	1.12	1.52	7.4	2.8	8.9 ± 0.3	27.6	10.0	880	80	205	1050	9.1	12 562 003
5 x 4 x 0.75	19 x 0.22	1.12	1.52	10.8	5.1	12.8 ± 0.4	27.6	3.7	1600	100	205	1740	18.5	12 564 825



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Cable type		Conductor		Core-D	Screen		Cable-D	R ₂₀		I _K **	Z _T	C		Fire load	Weight	H + S	
n x mm ²	n x AWG	construction	D _{nom} mm	D _{nom} mm	D _{max} mm	size mm ²	D _{nom} mm	cond. Ω/km	screen Ω/km	screen A	max mΩ/m	core/core pF/m	core/screen pF/m	kJ/m	copper cable kg/100m	Part No.	
2 x 1.0	2 x 18	19 x 0.25	1.22	1.67	3.8	0.75	5.0 ± 0.3	20.0	25.9	235	200	125	215	345	2.5	5.0	12 555 875
3 x 1.0	3 x 18	19 x 0.25	1.22	1.67	4.1	1.14	5.5 ± 0.3	20.0	18.6	345	150	125	215	400	3.8	6.0	12 555 688
4 x 1.0	4 x 18	19 x 0.25	1.22	1.67	4.5	1.04	5.8 ± 0.3	20.0	20.2	315	150	125	215	435	3.7	7.2	12 555 877
5 x 1.0	5 x 18	19 x 0.25	1.22	1.67	5.2	1.2	6.6 ± 0.3	20.0	15.9	380	100	125	215	590	5.7	8.8	12 555 878
6 x 1.0	6 x 18	19 x 0.25	1.22	1.67	5.9	1.8	7.3 ± 0.3	20.0	10.5	570	100	125	215	715	7.2	11.4	12 555 879
7 x 1.0	7 x 18	19 x 0.25	1.22	1.67	6.4	2.1	7.9 ± 0.3	20.0	9.15	660	60	125	215	870	8.4	13.4	12 555 880
8 x 1.0	8 x 18	19 x 0.25	1.22	1.67	7.0	2.2	8.5 ± 0.3	20.0	8.60	690	40	125	215	1040	9.4	15.0	12 556 373
9 x 1.0	8 x 18	19 x 0.25	1.22	1.67	7.4	3.0	8.9 ± 0.3	20.0	6.40	950	40	125	215	890	11.1	16.0	12 559 976
10 x 1.0	10 x 18	19 x 0.25	1.22	1.67	7.4	3.0	8.9 ± 0.3	20.0	6.40	950	40	125	215	855	12.0	16.8	12 555 881
12 x 1.0	12 x 18	19 x 0.25	1.22	1.67	7.7	3.3	9.2 ± 0.3	20.0	5.95	1000	25	125	215	905	14.0	18.8	12 555 882
16 x 1.0	16 x 18	19 x 0.25	1.22	1.67	8.8	3.7	10.5 ± 0.4	20.0	5.20	1150	25	125	215	1300	18.0	25.0	12 555 883
18 x 1.0	18 x 18	19 x 0.25	1.22	1.67	9.4	3.8	11.2 ± 0.4	20.0	5.05	1200	20	125	215	1470	19.9	27.5	12 555 884
25 x 1.0	25 x 18	19 x 0.25	1.22	1.67	10.8	4.5	12.7 ± 0.4	20.0	4.30	1400	20	125	215	1850	26.9	35.7	12 555 885
27 x 1.0	27 x 18	19 x 0.25	1.22	1.67	11.2	5.9	13.3 ± 0.4	20.0	3.30	1850	20	125	215	1970	30.0	39.5	12 559 012
30 x 1.0	30 x 18	19 x 0.25	1.22	1.67	11.8	7.9	13.8 ± 0.4	20.0	2.45	2500	20	125	215	2120	34.8	45.0	12 559 013
36 x 1.0	36 x 18	19 x 0.25	1.22	1.67	13.0	8.5	15.2 ± 0.5	20.0	2.30	2650	20	125	215	2540	40.7	53.0	12 559 014
42 x 1.0	42 x 18	19 x 0.25	1.22	1.67	14.0	9.1	16.3 ± 0.5	20.0	2.15	2850	20	125	215	2910	46.6	60.5	12 559 015
50 x 1.0	50 x 18	19 x 0.25	1.22	1.67	15.3	9.4	17.8 ± 0.5	20.0	2.10	3000	15	125	215	3540	54.0	69.0	12 559 016



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Cable type n x mm ²	n x AWG	Conductor construction* n x mm	D _{nom} mm	Core-D D _{nom} mm	Screen D _{max} mm	Screen size mm ²	Cable-D D _{nom} mm	R ₂₀ cond. Ω/km	I _K ** screen A	Z _T max mΩ/m	C core/core pF/m	Fire load kJ/m	Weight copper cable kg/100m	H + S Part No.
2x2x1.0	2x2x18	19 x 0.25	1.22	1.67	6.4	2.3	7.9 ± 0.3	20.7	8.3	60	125	820	5.9	12 558 112
4x2x1.0	4x2x18	19 x 0.25	1.22	1.67	7.8	3.0	9.4 ± 0.3	20.7	6.4	40	125	995	10.2	12 555 886
6x2x1.0	6x2x18	19 x 0.25	1.22	1.67	9.7	3.8	11.6 ± 0.4	20.7	5.0	60	125	1100	15.0	12 564 826
12x2x1.0	12x2x18	19 x 0.25	1.22	1.67	12.1	5.9	14.3 ± 0.5	20.7	3.3	60	125	1960	30.0	12 564 827
4x3x1.0	4x3x18	19 x 0.25	1.22	1.67	9.6	3.7	11.5 ± 0.4	20.7	5.6	65	125	1660	14.7	12 566 800
3x4x1.0	3x4x18	19 x 0.25	1.22	1.67	9.4	4.4	11.3 ± 0.4	20.7	4.4	45	125	1460	15.2	12 555 887
4x4x1.0	4x4x18	19 x 0.25	1.22	1.67	10.6	5.1	12.5 ± 0.4	20.7	3.8	25	125	1950	19.5	12 558 113



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Cable type n x mm ²	Conductor construction* n x mm		Core-D D _{nom} mm	Screen D _{max} size mm ²		Cable-D D _{nom} mm	R ₂₀ cond. screen Ω/km		I _K ** screen A	Z _T max mΩ/m	C core/core pF/m		Fire load kJ/m	Weight copper cable kg/100m		H + S Part No.
2 x 1.5	37 x 0.22	1.54	2.04	4.5	0.95	5.8 ± 0.3	13.7	20.7	300	150	125	215	460	3.7	7.0	12 555 888
3 x 1.5	37 x 0.22	1.54	2.04	4.8	1.1	6.1 ± 0.3	13.7	17.3	345	150	125	215	490	5.3	8.1	12 555 889
4 x 1.5	37 x 0.22	1.54	2.04	5.4	1.3	6.7 ± 0.3	13.7	14.8	410	100	125	215	570	6.9	10.0	12 555 890
5 x 1.5	37 x 0.22	1.54	2.04	6.3	1.8	7.7 ± 0.3	13.7	10.5	570	80	125	215	765	8.8	13.5	12 555 891
6 x 1.5	37 x 0.22	1.54	2.04	6.8	2.1	8.3 ± 0.3	13.7	9.1	660	60	125	215	905	10.5	15.5	12 555 892
7 x 1.5	37 x 0.22	1.54	2.04	7.6	3.0	9.1 ± 0.3	13.7	6.3	950	60	125	215	1110	12.8	18.4	12 555 893
8 x 1.5	37 x 0.22	1.54	2.04	8.5	3.3	10.3 ± 0.4	13.7	6.2	1040	50	125	215	1490	14.0	22.2	12 567 260
9 x 1.5	37 x 0.22	1.54	2.04	8.8	3.7	10.5 ± 0.4	13.7	5.2	1150	40	125	215	1350	16.3	23.4	12 558 115
10 x 1.5	37 x 0.22	1.54	2.04	8.8	3.7	10.5 ± 0.4	13.7	5.2	1150	40	125	215	1170	17.7	24.0	12 555 894
12 x 1.5	37 x 0.22	1.54	2.04	9.2	3.7	10.9 ± 0.4	13.7	5.2	1150	25	125	215	1350	20.5	26.8	12 555 895
14 G1.5	37 x 0.22	1.54	2.04	10.2	5.38	12.2 ± 0.4	13.7	3.8	1690	40	125	215	1670	24.0	33.3	12 568 429
16 x 1.5	37 x 0.22	1.54	2.04	10.6	5.5	12.5 ± 0.4	13.7	3.5	1730	20	125	215	1810	27.5	36.4	12 555 896
18 x 1.5	37 x 0.22	1.54	2.04	11.7	5.9	13.2 ± 0.4	13.7	3.3	1860	20	125	215	2030	31.0	40.5	12 555 897
25 G 1.5	37 x 0.22	1.54	2.04	13.1	6.9	15.6 ± 0.5	13.7	3.0	2170	30	125	215	2570	40.6	54.0	12 568 430
25 x 1.5	37 x 0.22	1.54	2.04	13.3	9.1	15.8 ± 0.5	13.7	2.3	2880	55	125	215	2510	47.7	56.2	12 555 898
48 x 1.5	37 x 0.22	1.54	2.04	17.9	12.0	20.7 ± 0.5	13.7	1.8	3780	40	125	215	4470	77.1	98.9	12 565 317
2 x 2 x 1.5	37 x 0.22	1.54	2.04	7.6	2.8	9.2 ± 0.3	14.2	6.9	880	70	125	215	1130	8.6	15.3	12 558 114
3 x 2 x 1.5	37 x 0.22	1.54	2.04	8.2	3.1	9.8 ± 0.3	14.2	6.2	980	70	125	215	1130	11.3	20.5	12 561 927
7 x 2 x 1.5	37 x 0.22	1.54	2.04	10.6	5.4	12.6 ± 0.4	14.2	3.6	1700	60	125	215	1570	22.2	33.0	12 561 928



Traction Cable

Radox GKW-LW/S EMC

Cable type n x mm ²	Conductor construction* n x mm		Core-D D _{nom} mm	Screen D _{max} mm		Cable-D D _{nom} mm	R ₂₀ cond. Ω/km		I _k ** screen A	Z _T max mΩ/m	C core/core pF/m	Fire load kJ/m	Weight copper cable kg/100m	H + S Part No.
2 x 2.5	37 x 0.29	1.93	2.54	5.7	1.5	7.0 ± 0.3	8.21	12.8	470	60	125	215	6.2	12 557 233
3 x 2.5	37 x 0.29	1.93	2.54	6.2	1.7	7.6 ± 0.3	8.21	11.4	530	60	125	215	8.7	12 554 750
4 x 2.5	37 x 0.29	1.93	2.54	6.9	2.8	8.4 ± 0.3	8.21	6.92	880	60	125	215	12.1	12 557 234
5 x 2.5	37 x 0.29	1.93	2.54	7.8	3.3	9.4 ± 0.3	8.21	5.93	1000	40	125	215	15.0	12 557 235
6 x 2.5	37 x 0.29	1.93	2.54	8.6	3.7	10.4 ± 0.4	8.21	5.19	1170	40	125	215	17.8	12 557 236
7 x 2.5	37 x 0.29	1.93	2.54	9.6	5.2	11.4 ± 0.4	8.21	3.78	1640	40	125	215	21.5	12 557 237
8 x 2.5	37 x 0.29	1.93	2.54	10.5	5.4	12.6 ± 0.4	8.21	3.96	1700	60	125	215	22.7	12 568 536
10 x 2.5	37 x 0.29	1.93	2.54	11.1	5.9	13.2 ± 0.4	8.21	3.30	1860	25	125	215	29.0	12 557 238
12 x 2.5	37 x 0.29	1.93	2.54	11.5	5.9	13.6 ± 0.4	8.21	3.30	1860	25	125	215	34.0	12 557 239
16 x 2.5	37 x 0.29	1.93	2.54	13.3	8.6	15.7 ± 0.5	8.21	2.28	2780	20	125	215	46.0	12 557 240
18 x 2.5	37 x 0.29	1.93	2.54	14.1	9.1	16.6 ± 0.5	8.21	2.14	2850	20	125	215	51.0	12 557 241
25 x 2.5	37 x 0.29	1.93	2.54	16.5	10.3	19.3 ± 0.5	8.21	2.05	3240	40	125	215	64.5	12 557 242
27 x 2.5	37 x 0.29	1.93	2.54	16.9	11.1	20.5 ± 0.5	8.21	1.75	3500	40	125	215	74.0	12 563 351
48 x 2.5	37 x 0.29	1.93	2.54	22.2	17.8	25.7 ± 0.6	8.21	1.15	5620	25	125	215	122.0	12 565 318

* (typical value x single wire diameter)

** (Short-circuit currents of screen are based on the following assumptions : duration of short circuit 0.1 s, initial temperature 90°C, final temperature 160°C)