



# Radox 125 S2 Multicore cables

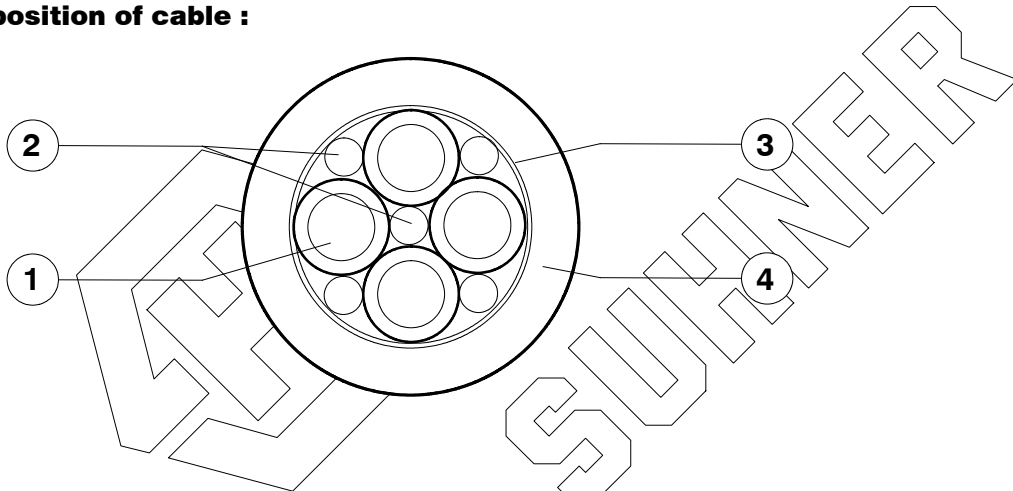
## General Properties :

Excellent high temperature and low temperature, ozone and weathering resistance, halogen free, flame retardant, in case of fire no corrosive gases and low smoke generation, soldering iron resistant, flexible, easy to strip.

## Application :

For permanent installation inside and outside to connect fixed and moving parts. Designed for connecting photovoltaic system components inside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions.

## General composition of cable :



- |                                       |  |
|---------------------------------------|--|
| 1. Cores<br>(for details see table 1) | Conductor : stranded tin plated copper, acc. to IEC 60228 cl. 5<br>Insulation : Radox 125 :extruded irradiation crosslinked polyolefin<br>Colours : 2 to 5 cores acc. HD 308 S2<br>6 and more cores BK numbered (+1 x GNYE)<br>(colours acc. customer requirements on request) |
| 2. Filler ( if necessary )            | Radox 125  |
| 3. Wrapping                           | Woven glass tape   |
| 4. Sheath                             | Radox 125 M : extruded irradiation crosslinked polyolefin,<br>Colour : black   |

Cable marking: HUBER + SUHNER SWITZERLAND RADOX 125 ZZZZZZZZ-ZZZZZZZ  
 Part number \_\_\_\_\_ Production lot number \_\_\_\_\_

## Technical Data :

Temperature range .....	fixed .....	- 40 ... +125 ... °C
Minimum temperature .....	flexing .....	- 25 ..... °C
Maximum conductor temperature at short circuit ( max. 5s ) .....		+ 280 ..... °C
Min. bending radius .....	fixed .....	3 x cable dia.
	flexing .....	5 x cable dia.

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## The cables pass the following tests:

<b>Fire protection in buildings</b> .....	<b>Fulfilled</b> .....	<b>EN 50525</b>
Vertical flame spread .....	50 < L ≤ 540 mm .....	EN 60332-1-2
Vertical flame spread, bunched .....	L ≤ 2.5 m .....	EN 60332-3-24
Smoke density .....	T ≥ 60 % .....	EN 61034-2
Corrosivity of combustion gases .....	pH ≥ 4.3, C ≤ 10 μS/mm .....	EN 50267-2-2
Amount of halogen acid gas .....	HCl + HBr ≤ 0.5 % .....	EN 50267-2-1
Content of fluorine .....	HF ≤ 0.1% .....	EN 60684-2, 45.2

Size n x mm <sup>2</sup>	Conductor		Core Ø mm	R <sub>20</sub> max Ω / km	Cable Ø mm	Weight nom kg/100m	Nominal- voltage V	Test- voltage V	H+S Part-No.
	constr. n x mmØ	max.Ø mm							
2 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	4.7 ± 0.3	2.85	450/750	2500	12 583 614
4 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	5.75 ± 0.3	4.4	450/750	2500	84 094 484
5 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	5.9 ± 0.3	4.8	450/750	2500	12 583 656
6 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	6.5 ± 0.3	5.7	450/750	2500	12 583 657
10 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	8.3 ± 0.3	8.6	450/750	2500	12 583 658
15 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	9.5 ± 0.3	11.8	450/750	2500	12 583 659
25 x 0.25	19 x 0.13	0.61	1.45 ± 0.05	88.5	11.7 ± 0.3	17.4	450/750	2500	12 583 660
2 x 0.5	19 x 0.18	0.9	1.7 ± 0.1	40.1	6.2 ± 0.3	5.1	450/750	2500	12 430 129
8 G 0.5	19 x 0.18	0.9	1.7 ± 0.1	40.1	8.8 ± 0.3	11.3	450/750	2500	12 584 718
16 x 0.5	19 x 0.18	0.9	1.7 ± 0.1	40.1	11.0 ± 0.4	18.1	450/750	2500	12 583 168
25 G 0.5	19 x 0.18	0.9	1.7 ± 0.1	40.1	14.0 ± 0.4	28.7	450/750	2500	12 584 048
40 x 0.5	19 x 0.18	0.9	1.7 ± 0.1	40.1	15.4 ± 0.5	38.8	450/750	2500	84 094 201
2 x 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	6.6 ± 0.3	6.3	600/1000	3500	12 430 125
3 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	6.95 ± 0.3	7.1	600/1000	3500	12 508 101
3 X 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	6.95 ± 0.3	7.1	600/1000	3500	12 584 695
4 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	7.7 ± 0.3	8.8	600/1000	3500	12 582 626
5 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	8.7 ± 0.3	10.9	600/1000	3500	12 583 767
6 X 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	9.5 ± 0.3	13.0	600/1000	3500	84 110 526
7 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	10.2 ± 0.3	15.1	600/1000	3500	12 532 843
9 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	11.8 ± 0.4	20.1	600/1000	3500	12 559 309
10 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	11.8 ± 0.4	19.3	600/1000	3500	12 583 768
12 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	12.0 ± 0.4	21.4	600/1000	3500	12 420 602
16 x 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	13.7 ± 0.4	27.6	600/1000	3500	12 583 771
20 x 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	15.4 ± 0.4	-	600/1000	3500	84 115 437
40 G 0.75	24 x 0.20	1.15	2.2 ± 0.1	26.7	20.4 ± 0.5	63.9	600/1000	3500	84 123 906



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2 x 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	7.5 ± 0.3	7.4	600/1000	3500	12 430 115
3 G 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	7.9 ± 0.3	9.1	600/1000	3500	12 420 417
5 G 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	9.8 ± 0.3	14.4	600/1000	3500	84 123 980
7 x 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	11.7 ± 0.4	20	600/1000	3500	12 585 949
10 x 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	13.6 ± 0.4	26	600/1000	3500	12 585 543
12 G 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	13.9 ± 0.4	28.1	600/1000	3500	12 515 521
32 X 1	32 x 0.20	1.3	2.6 ± 0.1	20.0	21.6 ± 0.3	68	600/1000	3500	12 583 305

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# Radox 125 S2

## Multicore cables

Size n x mm <sup>2</sup>	Conductor		Core Ø mm	R <sub>20</sub> max Ω / km	Cable Ø mm	Weight nom kg/100m	Nominal- voltage V	Test- voltage V	H+S Part-No.
	constr. n x mmØ	max.Ø mm							
2 x 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	7.8 ± 0.3	8.6	600/1000	3500	12 430 113
3 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	8.3 ± 0.3	11.0	600/1000	3500	12 430 116
3 X 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	8.3 ± 0.3	11.0	600/1000	3500	12 584 703
4 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	9.2 ± 0.3	13.6	600/1000	3500	12 582 631
4 X 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	9.2 ± 0.3	13.6	600/1000	3500	12 584 705
5 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	10.4 ± 0.4	16.7	600/1000	3500	12 582 632
6 X 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	11.1 ± 0.4	19.5	600/1000	3500	84 108 240
7 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	12.3 ± 0.4	23.6	600/1000	3500	12 420 406
8 x 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	13.6 ± 0.4	28.1	600/1000	3500	12 584 490
8 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	13.6 ± 0.4	28.1	600/1000	3500	12 584 678
12 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	14.5 ± 0.4	33.6	600/1000	3500	12 583 769
16 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	16.4 ± 0.5	44.1	600/1000	3500	12 583 770
18 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	17.5 ± 0.5	50	600/1000	3500	12 584 378
21 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	19.8 ± 0.5	60	600/1000	3500	12 583 772
24 G 1.5	30 x 0.25	1.55	2.73 ± 0.1	13.7	20.4 ± 0.5	64	600/1000	3500	12 584 677
2 x 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	9.1 ± 0.3	13.0	600/1000	3500	12 430 130
3 G 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	10.1 ± 0.4	16.6	600/1000	3500	12 420 355
3 X 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	10.1 ± 0.4	16.6	600/1000	3500	12 584 704
4 X 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	11.4 ± 0.4	21.1	600/1000	3500	84 114 514
4 G 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	11.4 ± 0.4	21.1	600/1000	3500	12 583 775
5 G 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	12.4 ± 0.4	24.9	600/1000	3500	12 582 635
7 G 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	15.3 ± 0.4	37.9	600/1000	3500	12 507 226
12 x 2.5	48 x 0.25	2.05	3.5 ± 0.1	8.21	18.1 ± 0.5	53.6	600/1000	3500	12 509 533
2 x 4	56 x 0.30	2.6	4.15 ± 0.15	5.09	11.0 ± 0.4	18.8	600/1000	3500	12 559 207
3 x 4	56 x 0.30	2.6	4.15 ± 0.15	5.09	12.0 ± 0.4	24.3	600/1000	3500	12 585 166
3 G 4	56 x 0.30	2.6	4.15 ± 0.15	5.09	12.0 ± 0.4	24.3	600/1000	3500	12 532 495
4 G 4	56 x 0.30	2.65	4.15 ± 0.15	5.09	13.0 ± 0.4	29.7	600/1000	3500	12 582 668
4 x 4	56 x 0.30	2.65	4.15 ± 0.15	5.09	13.0 ± 0.4	29.7	600/1000	3500	12 586 325
6 x 4	56 x 0.30	2.6	4.15 ± 0.15	5.09	16.2 ± 0.5	44.4	600/1000	3500	84 130 437
12 x 4	56 x 0.30	2.65	4.15 ± 0.15	5.09	21.4 ± 0.5		600/1000	3500	12 582 948



# Radox 125 S2

## Multicore cables

Size n x mm <sup>2</sup>	Conductor constr. n x mmØ	max.Ø mm	Core Ø mm	R <sub>20</sub> max Ω / km	Cable Ø mm	Weight nom kg/100m	Nominal- voltage V	Test- voltage V	H+S Part-No.
2 x 6	81 x 0.30	3.4	4.95 ± 0.15	3.39	12.8 ± 0.4	26	600/1000	3500	12 583 577
3 x 6	81 x 0.30	3.4	4.95 ± 0.15	3.39	13.8 ± 0.4	32.6	600/1000	3500	12 585 165
4 G 6	81 x 0.30	3.4	4.95 ± 0.15	3.39	15.6 ± 0.5	41.8	600/1000	3500	12 584 594
5 G 6	81 x 0.30	3.4	4.95 ± 0.15	3.39	17.6 ± 0.5	52	600/1000	3500	12 584 613
7 x 6	81 x 0.30	3.4	4.95 ± 0.15	3.39	21.0 ± 0.5	74.9	600/1000	3500	84 094 238
2 X 10	78 x 0.40	4.4	6.15 ± 0.15	1.95	15.8 ± 0.5	41.7	600/1000	3500	84 113 061
4 G 10	78 x 0.40	4.4	6.15 ± 0.15	1.95	18.9 ± 0.5	68	600/1000	3500	12 584 289
5 G 16	119 x 0.4	5.4	7.35 ± 0.15	1.24	24.8 ± 0.5	121	600/1000	3500	12 586 536
2 X 25	182 x 0.4	6.7	8.9 ± 0.2	0.795	22.1 ± 0.5	83	600/1000	3500	85 005 805
3 X 25	182 x 0.4	6.7	8.9 ± 0.2	0.795	23.7 ± 0.6	104	600/1000	3500	12 585 400
4 X 25	182 x 0.4	6.7	8.9 ± 0.2	0.795	26.5 ± 0.6	142	600/1000	3500	12 585 404
4 G 25	182 x 0.4	6.7	8.9 ± 0.2	0.795	26.5 ± 0.6	142	600/1000	3500	12 584 931
6 X 25	182 x 0.4	6.7	8.9 ± 0.2	0.795	33.3 ± 0.6	214	600/1000	3500	84 130 438
3 X 35	266 x 0.4	7.9	10.3 ± 0.2	0.565	27.2 ± 0.6		600/1000	3500	12 585 401
4 X 35	266 x 0.4	7.9	10.3 ± 0.2	0.565	30.8 ± 0.6	194	600/1000	3500	12 585 405
3 X 50	378 x 0.4	9.4	12.1 ± 0.25	0.393	31.3 ± 0.6	211	600/1000	3500	12 585 402
4 X 50	378 x 0.4	9.4	12.1 ± 0.25	0.393	35.9 ± 0.6	272	600/1000	3500	12 585 406
3 X 70	348 x 0.5	11.6	14.4 ± 0.25	0.277	37.1 ± 0.7	289	600/1000	3500	12 584 902
4 X 70	348 x 0.5	11.6	14.4 ± 0.25	0.277	42.8 ± 0.7	381	600/1000	3500	12 585 407
3 X 95	444 x 0.5	13	16 ± 0.3	0.21	41 ± 0.7	366	600/1000	3500	12 584 930