



# RADOX 125

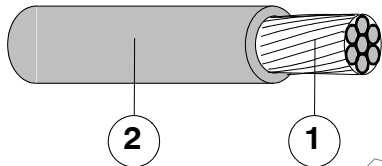
## Connecting leads

### GENERAL PROPERTIES :

Excellent high temperature, low temperature, ozone and weathering resistance, halogen free, soldering iron resistant, easy to strip and process, flexible.

### APPLICATION :

For protected and fixed installation inside electrical equipment, especially suitable for the connection of motor windings, switchboards, magnets and transformers.



1. Conductor : Stranded tin plated copper, according to IEC 228 cl.5
2. Insulation : RADOX 125 ,  
extruded irradiation crosslinked polyolefin  
Colours : diverse

### PRINTING :

0.25- 4 mm<sup>2</sup>:

HUBER+SUHNER RADOX 125 ...MM2 [prod.- place]

≥ 6 mm<sup>2</sup>:

HUBER+SUHNER [Lot No.] RADOX 125 ...MM2 [prod.- place]

### TECHNICAL DATA :

Temperature range ..... - 40 ... + 125 ..... °C

### Voltages for cross-section ≥ 0.75 mm<sup>2</sup>:

Rated voltage cond.- earth	U <sub>0</sub>	600 V AC
Rated voltage cond.- cond.	U	1000 V AC
Maximum permitted operating voltage cond.- earth		720 V AC
Maximum permitted operating voltage cond.- cond.	U <sub>m</sub>	1200 V AC
Maximum permitted operating voltage cond.- earth	V <sub>0</sub>	900 V DC
Maximum permitted operating voltage cond.- cond.		1800 V DC
Test voltage		3500 V AC

### Voltages for cross-section < 0.75 mm<sup>2</sup>:

Rated voltage cond.- earth	U <sub>0</sub>	450 V AC
Rated voltage cond.- cond.	U	750 V AC
Maximum permitted operating voltage cond.- earth		480 V AC
Maximum permitted operating voltage cond.- cond.	U <sub>m</sub>	825 V AC
Maximum permitted operating voltage cond.- earth	V <sub>0</sub>	620 V DC
Maximum permitted operating voltage cond.- cond.		1240 V DC
Test voltage		2500 V AC

Minimum bending radius ..... Outer diameter ≤ 12 mm ..... 3 x D  
 ..... Outer diameter > 12 mm ..... 4 x D

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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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TABLE 1 : Dimensions, conductor resistance, weight

Cross section nom. mm <sup>2</sup>	Conductor construction nom. n x mmØ	Conductor diameter max. mm	Core diameter D mm	R <sub>20</sub> IEC 228 max. Ω / km	Weight nom. kg / 100m
0.25	19 x 0.13	0.6	1.45 ± 0.05	85.9	0.4
0.34	19 x 0.16	0.8	1.60 ± 0.10	52.1	0.5
0.50	19 x 0.18	0.9	1.70 ± 0.10	40.1	0.7
0.75	24 x 0.20	1.15	2.20 ± 0.10	26.7	1.1
1.0	32 x 0.20	1.3	2.60 ± 0.10	20.0	1.5
1.5	30 x 0.25	1.55	2.73 ± 0.10	13.7	1.9
2.5	48 x 0.25	2.05	3.50 ± 0.10	8.21	3.0
4.0	56 x 0.30	2.6	4.15 ± 0.15	5.09	4.6
6.0	82 x 0.30	3.4	4.95 ± 0.15	3.39	6.7
10	78 x 0.40	4.4	6.15 ± 0.15	1.95	11
16	119 x 0.40	5.4	7.35 ± 0.15	1.24	16.5
25	182 x 0.40	6.7	8.9 ± 0.2	0.795	25
35	266 x 0.40	7.9	10.3 ± 0.2	0.565	34.9
50	378 x 0.40	9.4	12.1 ± 0.25	0.393	50
70	348 x 0.50	11.5	14.4 ± 0.25	0.277	70.8
95	444 x 0.50	12.9	16.0 ± 0.3	0.210	89
120	570 x 0.50	15.1	18.6 ± 0.3	0.164	116
150	722 x 0.50	17.0	20.5 ± 0.3	0.132	145
185	874 x 0.50	18.5	22.2 ± 0.3	0.108	173
240	1147 x 0.50	21.3	25.4 ± 0.3	0.0817	225

**The cables are in conformity with :**

Halogen-free compound	fulfilled	EN 50363
Corrosivity of combustion gases	pH ≥ 4.3, σ ≤ 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