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Bank ABN-AMRO Amsterdam  
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Postbank 233083  
K.v.K. Leiden nr. 28058530



## Introduction to RADOX KABELS

Huber + Suhner AG has developed a material with low smoke and flame retardant qualities. This material is called Radox and is available in various types : Radox 125, Radox 155, Radox Marine, Traction and Solar.

### **RADOX 125**

Free of halogen, low smoke and flame retardant , for temperatures from -40°C to +125°C. Available in single and multi core types, non shielded and shielded.

These cables are designed to withstand elevated temperatures in applications where high reliability and excellent long term performance is required. They also have good mechanical and chemical properties.

### **RADOX 155**

Flame retardant, resistant to extreme temperatures, easy to work with. For temperatures from -55°C to +155°C, short exposures up to 250°C have no adverse effect on the insulation. (This type is not free of halogen)

Available in single and multi core types, non-shielded and shielded.

### **RADOX MARINE**

Free of halogen, low smoke, flame retardant wire and cable with GL approval. Suitable for on board applications.

### **RADOX TRACTION**

An extensive range of cables and wires especially designed for use in railway tracks, rolling stock, auto bus and metro.

A catalogue of each series is available on request.

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## hook up wire RADOX 125

flame retardant, free of halogen, temperature to 125°C



**Application** : especially suitable for the connection of motor windings, switchboards, white goods and lighting fixtures. Excellent high and low temperature and ozone resistance. Weatherproof, high abrasion resistance and good oil-resistant.

**TECHNICAL DATA** : TYPE RADOX 125

Standards : IEC 60332-1, 60332-3-24 CAT C., 60754-1, 60754-2, 61034-2.

Construction of conductor : Highly flexible, finely constructed tin plated copper, according to IEC 228, class 5.

Insulation of conductor : Polyolefin copolymer (crosslinked).

Gage mm <sup>2</sup>	Outer diameter: mm	Construction	weight kg 100 m
0,25	1,5	19 x 0,13	0,5
0,50	1,8	19 x 0,18	0,8
0,75	2,3	24 x 0,20	1,1
1,00	2,6	32 x 0,20	1,5
1,5	2,9	30 x 0,25	2,3
2,5	3,5	50 x 0,25	3,3
4	4,2	56 x 0,30	5,3
6	5,4	84 x 0,30	7,5
10	6,8	80 x 0,40	12
16	8,5	126 x 0,40	19
25	9,9	196 x 0,40	28
35	11,7	276 x 0,40	34
50	13,2	396 x 0,40	54
70	15,5	361 x 0,50	76

Colours : various, see next page for available types from stock.

Temperature : -40°C tot +125°C

Voltage rating : 0,25 t/m 0,5 mm<sup>2</sup> 450/750 V.  
 0,75 t/m 70 mm<sup>2</sup> 0,6/1 kV.

Test voltage : 3500 Volt.

Halogen free : IEC 60754-1.

Corrosive gasses : IEC 60754-2.

Low Smoke : IEC 61034-2.

Flame retardant : IEC 60332-3-24 Cat. C.

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## RADOX 125

article number	cross section mm <sup>2</sup>	article number	cross section mm <sup>2</sup>	article number	cross section mm <sup>2</sup>
2110101	0,25 black	2110401	1 black	2110601	2,5 black
2110102	0,25 white	2110403	1 brown	2110602	2,5 white
		2110404	1 blue	2110603	2,5 brown
2110201	0,5 black	2110407	1 yw/gn	2110604	2,5 blue
2110202	0,5 brown	2110408	1 red	2110605	2,5 yellow
2110204	0,5 blue	2110409	1 grey	2110607	2,5 yw/gn
2110205	0,5 grey	2110412	1 green	2110608	2,5 red
2110207	0,5 yw/gn	2110413	1 orange	2110609	2,5 grey
2110208	0,5 red			2110610	2,5 green
2110209	0,5 purple				
		2110501	1,5 black	2110701	4 black
2110301	0,75 black	2110502	1,5 brown	2110702	4 grey
2110302	0,75 grey	2110503	1,5 red	2110705	4 yellow
2110303	0,75 brown	2110504	1,5 blue	2110707	4 yw/gn
2110304	0,75 blue	2110505	1,5 green	2110708	4 red
2110307	0,75 yw/gn	2110507	1,5 yw/gn	2110714	4 brown
2110308	0,75 red	2110511	1,5 white		
2110310	0,75 yellow			2110801	6 black
				2110803	6 white
				2110807	6 yw/gn
				2110901	10 black
				2110903	10 yw/gn
				2111302	25 black
				2111101	35 black
				2111201	50 black
				2111350	70 black
				2111401	95 black

## multicore cable RADOX 125 and 125 CY

*free of halogen, flame retardant, low smoke*



### TECHNICAL DATA

### : TYPE RADOX 125 + 125 CY

Construction of conductor	: Highly flexible, finely constructed bare. copper, according to VDE 0295/5.	
Insulation of conductor	: Radox 125; Polyolefin copolymer (cross linked).	
Coding of conductors	: <5 cores: according to CENELEC HD 308. >5 cores: black, numbered plus 1 yellow/green.	
Braiding (125 CY)	: Tinned copper braiding, 85%.	
Outer jacket	: Radox 125.	
Colour of outer jacket	: black.	
Bend radius	: non shielded:	3 x outer diameter.
	: shielded:	4 x outer diameter.
Temperature	: -40°C tot +125°C	
Voltage rating	: 600/1000 Volt.	
Test Voltage	: 3500 Volt.	
Stock	:	

Article no.	core construction cores x mm <sup>2</sup>	outer diameter in mm
<b>Radox 125, non shielded</b>		
2131503	3 x 1	7,9
2131602	2 x 1,5	7,8
2131601	3 x 1,5	8,3
2131703	3 x 2,5	10,1
2131804	4 x 4	13,0

### Radox 125 CY, shielded

2130400	3 x 0,75	7,6
2130401	4 x 0,75	8,4
2130407	7 x 0,75	10,7
2130502	2 x 1	7,9
2130503	3 x 1	8,7
2130612	12 x 1,5	15,4
2130703	3 x 2,5	10,8

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## hook up wire RADOX 155

flame retardant, temperature to +155°C



**Application** : wiring domestic appliances, lighting fixtures, electrical switchgear and coil wound equipment.

**TECHNICAL DATA** : TYPE RADOX 155

Construction of conductor : Highly flexible, finely constructed tin plated copper, according to IEC 228, class 5.

Insulation of conductor : Radox 155, Polyolefin copolymer (crosslinked).

Gage mm <sup>2</sup>	Outer diameter: mm	Construction	weight kg 100 m
0,25	1,5	19 x 0,13	0,5
0,50	1,8	19 x 0,18	0,8
0,75	2,3	24 x 0,20	1,1
1,00	2,6	32 x 0,20	1,5
1,5	2,9	30 x 0,25	2,3
2,5	3,5	50 x 0,25	3,3
4	4,2	56 x 0,30	5,3
6	5,4	84 x 0,30	7,5
10	6,8	80 x 0,40	12
16	8,5	126 x 0,40	19
25	9,9	196 x 0,40	28
35	11,7	276 x 0,40	34
50	13,2	396 x 0,40	54
70	15,5	361 x 0,50	76

Temperature : Flexing : -55°C tot +155°C

Colours : various.

Voltage rating : 0,25 t/m 0,5 mm<sup>2</sup> 450/750 V.  
0,75 t/m 70 mm<sup>2</sup> 600/1000 V.

Test Voltage : 3500 Volt.