



# RADOX® 155

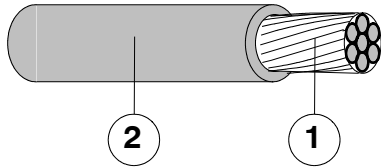
## Connecting leads

### GENERAL PROPERTIES :

Excellent high temperature, low temperature, ozone and weathering resistance, flame retardant, soldering iron resistant, easy to strip and process, compatible to all common resins and varnishes, 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, class 5 EN 60228
2. Insulation : . RADOX 155,  
..... extruded irradiation crosslinked polyolefin  
Colours : ... diverse

### PRINTING :

0.25- 4 mm<sup>2</sup>:  
≥ 6 mm<sup>2</sup>:

HUBER+SUHNER RADOX 155 ...MM2 [prod.- place]  
HUBER+SUHNER [Lot No.] RADOX 155 ...MM2 [prod.- place]

### TECHNICAL DATA:

Temperature range ..... - 55 ... + 155 ..... °C

#### 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

#### 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

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 EN 60228 nom. mm <sup>2</sup>	Conductor construction nom. n x mm d	Conductor diameter max. mm	Core diameter Dia. mm	Conductor resistance at 20°C max. Ω / km	Weight nom. kg / 100m
0.25	19 x 0.13	0.61	1.45 ± 0.05	86.0	0.4
0.34	19 x 0.16	0.77	1.60 ± 0.10	53.1	0.5
0.5	19 x 0.18	0.90	1.71 ± 0.10	40.1	0.7
0.75	24 x 0.20	1.13	2.25 ± 0.10	26.7	1.1
1	32 x 0.20	1.28	2.50 ± 0.10	20.0	1.5
1.5	30 x 0.25	1.52	2.85 ± 0.10	13.7	1.9
2.5	48 x 0.25	2.06	3.50 ± 0.10	8.21	3.0
4	56 x 0.30	2.64	4.20 ± 0.15	5.09	4.5
6	82 x 0.30	2.98	5.0 ± 0.15	3.39	6.5
10	78 x 0.4	4.1	6.4 ± 0.15	1.95	10.7
16	119 x 0.4	5.4	7.6 ± 0.15	1.24	15.8
25	189 x 0.4	6.65	9.2 ± 0.2	0.795	24.2
35	266 x 0.4	7.8	10.7 ± 0.3	0.565	33.7
50	378 x 0.4	9.3	12.4 ± 0.3	0.393	48
70	348 x 0.49	11.5	14.6 ± 0.3	0.273	67
95	456 x 0.49	13.0	16.4 ± 0.3	0.207	87
120	570 x 0.50	14.7	18.5 ± 0.3	0.164	110
150	722 x 0.49	16.2	20.8 ± 0.3	0.132	139
185	874 x 0.50	18.0	22.7 ± 0.3	0.108	169
240	1147 x 0.50	21.0	26.1 ± 0.4	0.0817	219