



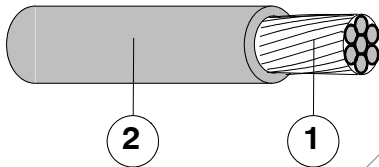
# UL 3271 / CSA AWM I A/B Radox connecting leads

## GENERAL PROPERTIES :

Excellent high temperature, low temperature, ozone and weathering resistance, flame retardant, easy to strip and process, heat pressure and highly abrasion resistant, soldering iron resistant, 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, flexible
2. Insulation : RADOX  
extruded irradiation crosslinked polyolefin  
Colours : diverse

Printing :  
≤ 10 mm<sup>2</sup>.

AWM Style 3271 125 °C 600V Huber + Suhner Switzerland Radox CSA AWM I A/B 125 °C 600V FT2 [ Querschnitt ]

≥ 16 mm<sup>2</sup>.

AWM Style 3271 125 °C 600V Huber + Suhner Switzerland Radox CSA AWM I A/B 125 °C 600V FT1, FT2 [ Querschnitt ]

## TECHNICAL DATA :

Voltage rating .....	(UL/CSA)	600	V
Testvoltage 1 min. ....	(UL/CSA)	2500	V
Voltage rating .....	(≥0.5mm <sup>2</sup> )	600/1000	V
Testvoltage 1 min. ....	(≥0.5mm <sup>2</sup> )	3500	V
Temperature rating .....	(UL/CSA)	+ 125	°C
Max. temperature at short circuit ( max. 5s ) .....		+ 280	°C
Min. temperature .....	flexing	- 25	°C
	fixed	- 40	°C
Min. bending radius for fixed installation .....		see Tab. 1	

## The cables comply with the following standards:

Appliance wiring material ..... CSA C22.2 no. 210 ..... AWM I A/B 125°C 600 V  
Appliance wiring material ..... UL 758 Style 3271

## The cables pass the following fire tests:

Vertical flame spread FT1 ..... (≥16mm<sup>2</sup>) ..... L ≤ 250 mm, t ≤ 60 s ... CSA C22.2 no. 0.3 # 4.11.1  
Horizontal flame spread FT2 ..... L ≤ 100 mm ..... CSA C22.2 no. 0.3 # 4.11.2  
Vertical flame spread ..... 50 < L ≤ 540 mm ..... EN 60332-1-2, IEC 60332-1-2  
Horizontal flame spread, Appliance-Wire ..... V ≤ 25 mm/Min. .... UL 1581 # 1090

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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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## Approvals:

CSA  
UL

Certificate 1418425  
File E63322

TABLE 1 : Dimensions, weight

Cross-section: UL 1581 CSA C22.2 No. 210		Cross-section: EN 60228/ IEC 60228	Conductor construction Aufbau nom.	Conductor max. mm	Core diameter D mm	Weight nom. kg / 100m	Min. bending radius mm	Conductor resistance R <sub>20</sub> max. Ω / km
AWG	mm <sup>2</sup>	mm <sup>2</sup>	n x mmØ					
24	0.205		19 x 0.13	0.61	2.22 ± 0.10	0.72	3 x D	86.0
22	0.324		19 x 0.16	0.77	2.40 ± 0.10	0.92	3 x D	53.1
		0.5	19 x 0.18	0.90	2.55 ± 0.10	1.0	3 x D	40.1
20	0.519		19 x 0.20	0.99	2.60 ± 0.10	1.2	3 x D	32.4
		0.75	24 x 0.20	1.13	2.80 ± 0.10	1.3	3 x D	26.7
18	0.823		19 x 0.25	1.23	2.85 ± 0.10	1.6	3 x D	20.4
		1	32 x 0.20	1.28	2.95 ± 0.10	1.6	3 x D	20.0
(16)		1.5	19 x 0.31	1.52	3.20 ± 0.10	2.1	3 x D	13.0
14	2.08		19 x 0.37	1.86	3.50 ± 0.10	2.9	3 x D	9.15
		2.5	48 x 0.25	2.06	3.75 ± 0.10	3.2	3 x D	8.21
12	3.31		37 x 0.35	2.35	4.00 ± 0.15	4.2	3 x D	5.75
		4	56 x 0.30	2.64	4.35 ± 0.15	4.9	3 x D	5.09
10	5.26		37 x 0.44	3.02	4.70 ± 0.15	6.4	3 x D	3.62
		6	84 x 0.30	2.98	4.70 ± 0.15	6.9	3 x D	3.39
(8)		10	80 x 0.40	3.94	6.40 ± 0.15	12.1	3 x D	1.95
(6)		16	119 x 0.40	5.4	8.60 ± 0.2	18.8	3 x D	1.24
(4)		25	182 x 0.40	6.7	9.90 ± 0.2	26.8	3 x D	0.795
(2)		35	266 x 0.40	7.9	11.1 ± 0.2	36.4	3 x D	0.565
(1)		50	378 x 0.40	9.4	13.7 ± 0.25	54.3	4 x D	0.393
(2/0)		70	348 x 0.50	11.5	15.8 ± 0.25	72.3	4 x D	0.277
(3/0)		95	444 x 0.50	13.0	17.4 ± 0.3	95.5	4 x D	0.210
(4/0)		120	570 x 0.50	15.4	19.6 ± 0.3	116	4 x D	0.164
(250 kcmil)		150	722 x 0.50	17.0	20.9 ± 0.3	144	4 x D	0.132