

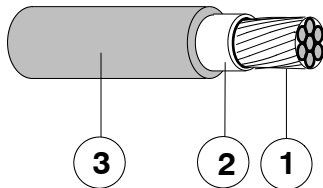
RADOX connecting leads

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. Coverage: Tape $\geq$ 6AWG only
 3. Insulation: RADOX extruded irradiation crosslinked polyolefin
- Colours: various

Printing

$\leq 10 \text{ mm}^2$

AWM Style 3271 125°C 600V HUBER+SUHNER [prod. place] RADOX CSA AWM I A/B 125°C 600V FT2 [cross section] - [part no.]-[batch no.] [prod. week]-[prod. year]

$\geq 16 \text{ mm}^2$

AWM Style 3271 125°C 600V HUBER+SUHNER [prod. place] RADOX CSA AWM I A/B 125°C 600V FT1, FT2 [cross section] - [part no.]-[batch no.] [prod. week]-[prod. year]

TECHNICAL DATA

Voltage rating	(UL/CSA)	600	...	V AC
Testvoltage 1 min.	(UL/CSA)	2500	..	V AC
Voltage rating	($\geq 0.5 \text{ mm}^2$)	600/1000	V AC	
Testvoltage 1 min.	($\geq 0.5 \text{ mm}^2$)	3500	..	V AC
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		3 x D		
	$\geq 1 \text{ AWG}$	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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RADOX connecting leads

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 ($\geq 16\text{mm}^2$) $L \leq 250\text{ mm}$, $t \leq 60\text{ s}$ CSA C22.2 No. 2556 # 9.3
Horizontal flame spread FT2 $L \leq 100\text{ mm}$ CSA C22.2 No. 2556 # 9.1
Vertical flame spread $50 < L \leq 540\text{ mm}$ EN 60332-1-2, IEC 60332-1-2
Horizontal flame spread, Appliance-Wire $V \leq 25\text{ mm/min.}$ UL 1581 # 1090

Approvals

UL File E63322
CSA File 069581

TABLE 1: Dimensions, Weight.

Cross Section UL 758 CSA C22.2 No. 210		Cross section	Conductor construction	Conductor diameter	Conductor resistance	Core diameter	Weight
AWG	nom. mm ²	nom. mm ²	nom. n x mm d	max. mm	at 20°C max. Ω / km	mm	nom. kg / 100m
24	0.205		19 x 0.13	0.61	86.0	2.22 ± 0.10	0.72
22	0.324		19 x 0.16	0.77	53.1	2.40 ± 0.10	0.92
		0.5	19 x 0.18	0.90	38.2	2.55 ± 0.10	1.0
20	0.519		19 x 0.20	0.99	32.4	2.60 ± 0.10	1.2
		0.75	24 x 0.20	1.13	26.7	2.80 ± 0.10	1.3
18	0.823		19 x 0.25	1.23	20.4	2.85 ± 0.10	1.6
		1	32 x 0.20	1.28	20.0	2.95 ± 0.10	1.6
(16)		1.5	19 x 0.31	1.52	13.0	3.20 ± 0.10	2.1
14	2.08		19 x 0.37	1.86	9.32	3.50 ± 0.10	2.9
		2.5	48 x 0.25	2.06	8.21	3.75 ± 0.10	3.2
12	3.31		37 x 0.35	2.35	5.88	4.00 ± 0.15	4.2
		4	56 x 0.30	2.64	5.09	4.35 ± 0.15	4.9
10	5.26		37 x 0.44	3.02	3.62	4.70 ± 0.15	6.4
		6	84 x 0.30	2.98	3.23	4.70 ± 0.15	6.9
(8)		10	80 x 0.40	3.94	1.95	6.40 ± 0.15	12.1
(6)		16	119 x 0.40	5.4	1.24	8.60 ± 0.2	18.8
(4)		25	182 x 0.40	6.7	0.795	9.90 ± 0.2	26.8
(2)		35	266 x 0.40	7.9	0.565	11.1 ± 0.2	36.4
(1)		50	378 x 0.40	9.4	0.393	13.7 ± 0.25	54.3
(2/0)		70	348 x 0.49	11.5	0.273	15.8 ± 0.25	70.1
(3/0)		95	456 x 0.49	13.0	0.207	17.5 ± 0.3	90.2
(4/0)		120	570 x 0.50	14.7	0.164	19.6 ± 0.3	114
(250kcmil)		150	722 x 0.49	16.2	0.132	20.9 ± 0.3	139