

RADOX Connecting Leads

UL 3289 150°C 600V

UL 30097 150°C 750V

CSA AWM I A/B 150°C 1000V

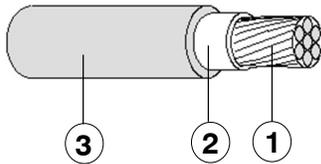
HUBER+SUHNER

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
 - 3. Insulation: RADOX 155
extruded irradiation crosslinked polyolefin (XLPE 150°C)
- Colours: various

Printing

AWM Style 3289 150°C 600V + Style 30097 150°C 750V HUBER+SUHNER
RADOX AWM I A/B 150°C 1000V FT1 [cross section] – [part no.]-[batch no.] [prod. week]-[prod. year]

TECHNICAL DATA

Voltage rating.....	UL 3289.....	600....V AC
Voltage rating.....	Style 30097.....	750....V AC
Voltage rating.....	CSA.....	1000...V AC
Test voltage 1min.....		2500...V AC
Temperature range.....	UL / CSA.....	150....°C
Minimum temperature.....	flexing.....	-40....°C
	fixed.....	-55....°C
Min. bending radius for fixed installation.....	3 x D	
	\geq 1AWG.....	4 x D

The cables comply with the following standards

Appliance wiring material.....	CSA C22.2 No.210.....	AWM I A/B 150°C 1000V
Appliance wiring material.....	UL 758.....	Style 3289
Appliance wiring material.....	UL 758.....	Style 30097

The cables pass the following fire tests

Vertical flame spread FT1.....	L \leq 250 mm, t \leq 60 s.....	CSA C22.2 No. 2556 # 9.3
Vertical flame spread FT1.....	L \leq 250 mm, t \leq 60 s.....	UL 2556 # 9.3
Horizontal flame spread, Appliance-Wire.....	V \leq 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.

HUBER+SUHNER AG

Low Frequency Division
CH-8330 Pfäffikon

+41 (0)44 952 22 11
+41 (0)44 952 26 40

www.hubersuhner.com

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Approvals

UL US / UL Canada

File E63322

TABLE 1

Cross section* UL 758 CSA C22.2 No. 210 nom. AWG	Cross Section* EN 60228/ IEC 60228 nom. mm ²	Conductor Construction nom. n x mm d	Conductor Diameter max. mm	Conductor Resistance bei 20° C min. Ω / km	Core Diameter D mm	Weight nom. kg / 100m
24		19 x 0.13	0.61	86.0	2.27 ± 0.10	0.66
22		19 x 0.16	0.77	53.1	2.40 ± 0.10	0.79
20		19 x 0.20	0.99	32.4	2.61 ± 0.10	1.1
18	1	19 x 0.25	1.23	20.4	2.85 ± 0.10	1.5
(16)	1.5	19 x 0.31	1.52	13.0	3.20 ± 0.10	2.1
14		19 x 0.37	1.86	9.32	3.50 ± 0.10	2.7
12		37 x 0.35	2.35	5.88	4.00 ± 0.15	4.0
10		37 x 0.44	3.02	3.62	4.68 ± 0.15	6.1
(8)	10	80 x 0.40	3.82	1.95	6.40 ± 0.15	11.1
(6)	16	119 x 0.40	5.4	1.24	8.90 ± 0.2	17.8
(4)	25	189 x 0.40	6.65	0.795	10.2 ± 0.2	26.0
(2)	35	266 x 0.40	7.8	0.565	11.4 ± 0.2	35.2
(1)	50	378 x 0.40	9.3	0.393	14.0 ± 0.25	51.9
(2/0)	70	348 x 0.49	11.5	0.273	16.1 ± 0.3	71
(3/0)	95	456 x 0.49	13.0	0.207	17.6 ± 0.3	90.6
(4/0)	120	570 x 0.50	14.7	0.164	19.3 ± 0.3	113

*()= The conductor cross sections are nominal values, the real values may differ slightly. The cross sections in brackets are the corresponding values according to the AWG system. For current load calculations the given conductor resistance values are decisive.