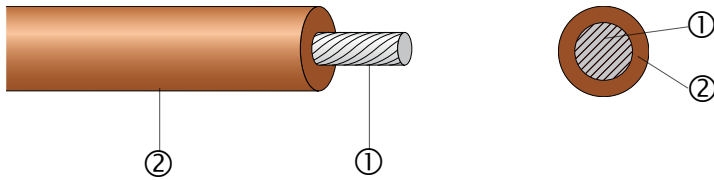


RADOX® UL 3271 / CSA AWM I A/B

Flexible single core



- excellent high and low temperature and ozone resistance
- weatherproof
- halogen free
- flame retardant
- high resistance to heat pressure
- high abrasion resistance
- easy to process
- soldering resistant
- flexible

Application

Protected and fixed installation inside electrical equipment, especially suitable for the connection of motor windings, switchboards, magnets and transformers.

Composition of cable

① Conductor	stranded tin plated copper, acc. to EN 60228, class 5
② Insulation	RADOX® 125 S extruded and electron beam crosslinked polyolefin copolymer
Core colours	various, on request

Technical data

Voltage rating	600 V AC
Test voltage	2500 V AC
Operating temperature	(UL/CSA temperature rating)
Max. conductor temperature	+125 °C
Min. operating temperature	+280 °C
	-65 °C
	flexing
	-25 °C
	fixed
	-40 °C

Standards

Appliance wiring material	CSA C22.2 no. 210.2	AWM I A/B 125°C 600 V FT2
Appliance wiring material	UL 758	Style 3271

Approvals

UL	Underwriters Laboratories	File no. E63322
CSA	Canadian Standards Association	Certificate no.1418425

RADOX® UL 3271 / CSA AWM I A/B

Flexible single core

Fire tests

Flame propagation:

Vertical flame spread, single cable	CSA C22.2 no. 0.3 cl. 4.11.1	FT1 > 16 mm ² only
Horizontal flame spread, single cable	CSA C22.2 no. 0.3 cl. 4.11.2	FT2
Vertical flame spread, single cable	EN 50265-2-1, IEC 60332-1	> 16 mm ² only
Content of halogen acid gas	EN 50267-2-1, IEC 60754-1	0 mg/g
Corrosivity of combustion gases	EN 50267-2-2, IEC 60754-2	
Smoke density	EN 50268-2, IEC 61034-2	
Flame propagation:		
Horizontal flame spread, single cable	UL 1581 sec. 1090	
Vertical flame spread, single cable	UL 1581 sec. 1080	VW-1 > 16 mm ² only

Extract from our delivery programme

Cross section		Conductor			Core	Weight	Bending radius
nom.		Construction nom.	dia. max.	R ₂₀ IEC 60228	dia.	nom.	min.
AWG	mm ²	n x mm dia.	mm	max. Ω/km	mm	kg/100 m	
24	(0.241)	19 x 0.13	0.61	85.6	2.22 ± 0.10	0.72	3 x dia.
22	(0.382)	19 x 0.16	0.79	53.2	2.40 ± 0.10	0.92	3 x dia.
20	(0.616)	19 x 0.20	0.99	32.4	2.60 ± 0.10	1.2	3 x dia.
18	(0.963)	19 x 0.25	1.23	20.4	2.85 ± 0.10	1.6	3 x dia.
(16)	1.50	19 x 0.31	1.55	13.0	3.20 ± 0.10	2.1	3 x dia.
14	(2.08)	19 x 0.37	1.86	9.15	3.50 ± 0.10	2.9	3 x dia.
12	(3.31)	37 x 0.34	2.35	5.75	4.0 ± 0.15	4.2	3 x dia.
10	(5.26)	37 x 0.43	3.02	3.62	4.7 ± 0.15	6.4	3 x dia.
(8)	10	80 x 0.40	3.94	1.95	6.4 ± 0.15	12.1	3 x dia.
(6)	16	119 x 0.40	5.4	1.21	8.6 ± 0.2	18.8	3 x dia.
(4)	25	182 x 0.40	6.7	0.795	9.9 ± 0.2	26.8	3 x dia.
(2)	35	266 x 0.40	7.9	0.565	11.1 ± 0.2	36.4	3 x dia.
(1)	50	378 x 0.40	9.4	0.393	13.7 ± 0.25	54.3	4 x dia.
(2/0)	70	348 x 0.50	11.5	0.277	15.8 ± 0.25	72.3	4 x dia.
(3/0)	95	444 x 0.50	12.9	0.210	17.4 ± 0.3	95.5	4 x dia.
(4/0)	120	551 x 0.50	14.8	0.164	19.3 ± 0.3	116	4 x dia.
	150	722 x 0.50	17.0	0.132	22.2 ± 0.3	150	4 x dia.

Various colours on request.