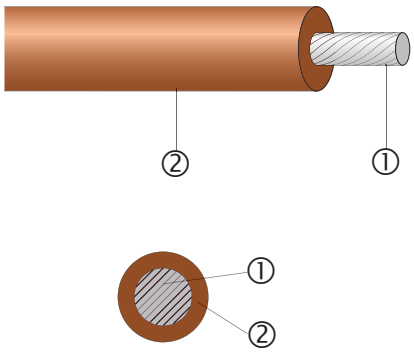
# RADOX® UL 3271/CSA AWM I A/B

## Flexible single core







- Excellent high and low temperature and ozone resistance
- Weatherproof
- Flame retardant
- High resistance to heat pressure
- High abrasion reistance
- 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<br>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 | | +125 °C |
| Max. conductor temperature | at short circuit (max. 5 s) | +280 °C |
| Min. operating temperature | flexing | −25 °C |
| | fixed | −40 °C |

### Standards

| | | |
|---|---|---|
| Applicance wiring material | CSA C22.2 no. 210.2 | AWM I A/B 125 °C 600 V FT2 |
| Applicance wiring material | UL 758 | style 3271 |

### Approvals

| | | |
|---|---|---|
| UL Underwriters Laboratories | | file no. E63322 |
| CSA | Canadian Standards Association | certificate no.1418425 |

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The cables pass the following fire tests:

| | | |
|---|---|---|
| Vertical flame spread FT1 | 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 |
| Vertical flame spread, VW-1 | L ≤ 250 mm, t ≤ 60 s | UL 1581 # 1080 |

Extract from our delivery programme

| Cross section | | Conductor | | | Core | Weight | Bending radius |
|---|---|---|---|---|---|---|---|
| nom. | | Construction nom. n × mm dia. | Dia. max. mm | $R_{20}$ IEC 60228 max. Ω/km | Dia. mm | nom. kg/100 m | min. |
| AWG | $mm^2$ | | | | | | |
| 24 | (0.25) | 19 × 0.13 | 0.61 | 84.2 | 2.22 ± 0.10 | 0.72 | 3 × dia. |
| 22 | (0.38) | 19 × 0.16 | 0.77 | 52.1 | 2.40 ± 0.10 | 0.92 | 3 × dia. |
| 20 | (0.62) | 19 × 0.20 | 0.99 | 31.8 | 2.60 ± 0.10 | 1.2 | 3 × dia. |
| 18 | (0.96) | 19 × 0.25 | 1.23 | 20.2 | 2.85 ± 0.10 | 1.6 | 3 × dia. |
| (16) | 1.5 | 19 × 0.31 | 1.52 | 12.9 | 3.20 ± 0.10 | 2.1 | 3 × dia. |
| 14 | (2.1) | 19 × 0.37 | 1.86 | 8.8 | 3.50 ± 0.10 | 2.9 | 3 × dia. |
| 12 | (3.3) | 37 × 0.35 | 2.35 | 5.53 | 4.0 ± 0.15 | 4.2 | 3 × dia. |
| 10 | (5.26) | 37 × 0.44 | 3.02 | 3.34 | 4.7 ± 0.15 | 6.4 | 3 × dia. |
| (8) | 10 | 80 × 0.40 | 4.3 | 1.91 | 6.4 ± 0.15 | 12.1 | 3 × dia. |
| (6) | 16 | 119 × 0.40 | 5.4 | 1.22 | 8.6 ± 0.2 | 18.8 | 3 × dia. |
| (4) | 25 | 182 × 0.40 | 6.7 | 0.795 | 9.9 ± 0.2 | 26.8 | 3 × dia. |
| (2) | 35 | 266 × 0.40 | 7.9 | 0.554 | 11.1 ± 0.2 | 36.4 | 3 × dia. |
| (1) | 50 | 378 × 0.40 | 9.4 | 0.385 | 13.7 ± 0.25 | 54.3 | 4 × dia. |
| (2/0) | 70 | 348 × 0.50 | 11.5 | 0.271 | 15.8 ± 0.25 | 72.3 | 4 × dia. |
| (3/0) | 95 | 444 × 0.50 | 13.0 | 0.206 | 17.4 ± 0.3 | 95.5 | 4 × dia. |
| (4/0) | 120 | 551 × 0.50 | 15.1 | 0.164 | 19.3 ± 0.3 | 116 | 4 × dia. |
| | 150 | 722 × 0.50 | 17.0 | 0.132 | 22.2 ± 0.3 | 150 | 4 × dia. |

Various colours on request.