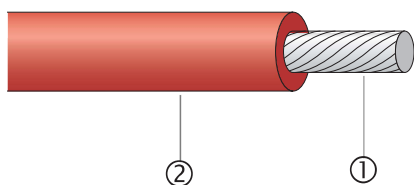
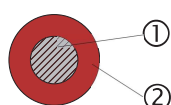


RADOX® 125 (2nd generation)

Flexible single core



- Excellent high and low temperature and ozone resistance
- Weatherproof
- Halogen free
- Flexible, easy to strip and process
- High resistance to thermal pressure
- High abrasion resistance



Application

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

Composition of cable

- ① Conductor
- ② Insulation

Stranded tin plated copper, EN 60228 / IEC 60228 cl. 5
RADOX 125
Type EI5 modified, EN 50363- 5
Type HF90 modified, IEC 60092- 360
extruded irradiation crosslinked polyolefin
various, on request

Core colours

Technical data

Temperature range

-40 up to +125 °C

Maximum permitted operating temperature of the conductor EN50565/IEC 60092.

+90 °C

Short circuit temperature rating of the conductor EN50565/IEC 60092

+250 °C

Minimum bending radius

Outer diameter < 12 mm

3 × D

Outer diameter > 12 mm

4 × D

Cross-section 1 - 300 mm²

Rated voltage

U₀/U

600/1000 V AC

Maximum permitted operating voltage cond.- earth

720

V AC

Maximum permitted operating voltage cond.- cond

U_m

1200 V AC

Maximum permitted operating voltage cond.- earth

V₀

900 V DC

Maximum permitted operating voltage cond.- cond

1500

V DC

Test voltage

3500(8400)

V AC (V DC)

Cross-section 0.25 - 0.75 mm²

Rated voltage

U₀/U

300/500 V AC

Maximum permitted operating voltage cond.- earth

320

V AC

Maximum permitted operating voltage cond.- cond

U_m 550

V AC

Maximum permitted operating voltage cond.- earth

V₀ 410

V DC

Maximum permitted operating voltage cond.- cond

820

V DC



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RADOX® 125 (2nd generation)

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Table 1: U₀/U=300/500V

Extract from our delivery programme

Cross section	Conductor			Core	Weight	Bending radius
nom. mm ²	Construction nom. n × mm dia.	Dia. max. mm	R ₂₀ IEC 60228 max. Ω/km	Dia. mm	nom. kg/100 m	min.
0.25	19 × 0.13	0.61	85.9	1.3 ± 0.10	0.4	3 × dia.
0.34	19 × 0.16	0.77	52.1	1.5 ± 0.10	0.6	3 × dia.
0.50	19 × 0.18	0.9	40.1	2.0 ± 0.10	0.9	3 × dia.
0.75	24 × 0.20	1.13	26.7	2.25 ± 0.10	1.2	3 × dia.

Table 2: U₀/U=600/1000V

1.0	32 × 0.20	1.28	20.0	2.6 ± 0.10	1.6	3 × dia.
1.5	30 × 0.25	1.52	13.7	2.85 ± 0.10	2.1	3 × dia.
2.5	48 × 0.25	2.06	8.21	3.35 ± 0.10	3.0	3 × dia.
4.0	56 × 0.30	2.64	5.09	3.95 ± 0.10	4.6	3 × dia.
6.0	82 × 0.30	3.30	3.39	4.65 ± 0.15	6.5	3 × dia.
10	78 × 0.40	4.25	1.95	5.6 ± 0.15	10.6	3 × dia.
16	119 × 0.40	5.40	1.24	6.75 ± 0.15	15.6	3 × dia.
25	182 × 0.40	6.70	0.795	8.5 ± 0.2	24.2	3 × dia.
35	266 × 0.40	7.90	0.565	9.7 ± 0.20	34.3	3 × dia.
50	378 × 0.40	9.30	0.393	11.4 ± 0.20	46.1	3 × dia.
70	348 × 0.50	11.50	0.277	13.8 ± 0.25	66.2	3 × dia.
95	456 × 0.50	13.00	0.210	15.3 ± 0.25	85.3	4 × dia.
120	570 × 0.50	14.70	0.164	17.2 ± 0.30	108.3	4 × dia.
150	722 × 0.50	16.20	0.132	19.1 ± 0.30	135.3	4 × dia.
185	874 × 0.50	18.00	0.108	21.3 ± 0.30	166.8	4 × dia.
240	1147 × 0.50	21.00	0.0817	24.5 ± 0.30	216.3	4 × dia.
300	11443 × 0.50	23.20	1.80	27.1 ± 0.4	269.2	4 × dia.

Various colours on request.



RADOX® 125 (2nd generation)

Flexible single core

Fire protection in ships 1- 300 mm²

Vertical flame spread of a single cable
Vertical flame spread of bunched cables
Smoke density
Corrosivity of combustion gases
Amount of halogen acid gas

Fulfilled

50 < L < 540 mm
L < 2.5 m
T > 60 % IEC 61034- 2
pH > 4.3, C < 10 mS/mm
HCl+HBr < 0.5 %

IEC 60092

IEC 60332- 1- 2
IEC 60332- 3- 22

IEC 60754- 2
IEC 60754- 1

Fire protection on railway vehicles, hazard level

Vertical flame spread
Vertical flame spread, bunched, D < 6mm
Vertical flame spread, bunched, 6 < D < 12 mm
Vertical flame spread, bunched, D > 12 mm
Smoke density
Toxicity

HL1 - HL3

50 < L < 540 mm
L < 1.5 m
L < 2.5 m
L < 2.5 m
T > 70 %
ITC < 6

EN 45545

EN 60332- 1- 2
EN 50305, 9.1.2
EN 50305, 9.1.1
EN 60332- 3- 24
EN 61034- 2
EN 50305, 9.2

Fire protection on building products , hazard level

Cross- section 0.5 - 6 mm²

Flame spread

Eca

H ≤ 425 mm

EN 13501- 6

EN 60332- 1- 2

Cross- section 10 - 300 mm²

Flame spread
Flame spread
Total heat release
Heat release rate
Fire growth rate index
Total smoke production
Smoke production rate
Flaming droplets/particles
Smoke density
Acidity

B2ca - s1a, d2, a1

H ≤ 425 mm
FS ≤ 1.5 m
THR ≤ 15 MJ
Peak- HRR ≤ 30 kW
FIGRA ≤ 150 W/s
TSP ≤ 50 m²
Peak- SPR ≤ 0.25 m²/s
No requirement
T ≥ 80 %
C < 2.5 μS/mm, pH > 4.3

EN 13501- 6

EN 60332- 1- 2
EN 50399

EN 61034- 2

EN 60754- 2

Approvals

DNV (Det Norske veritas)
CPR (Construction Product regulation)

TAE00003GH

according to EN50575 Eca ≤ 6 mm², B2ca -s1a-d2-a1 > 6 mm²

