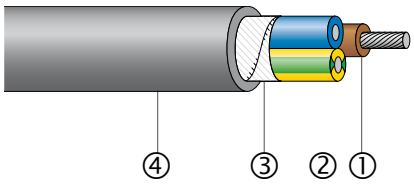
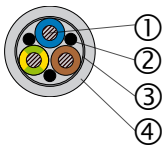
RADOX® 125

Multi core cable





- excellent high and low temperature and ozone resistance
- weatherproof
- halogen free
- flame retardant
- soldering resistant
- flexible
- in case of fire no corrosive gases and low smoke emission
- easy to strip

Application

Permanent installation indoor and outdoor for the connection of fixed and loose parts.

Composition of cable

①	Core:	
	Conductor	stranded tin plated copper, acc. to EN 60228, class 5
	Insulation	RADOX® 125 extruded and electron beam crosslinked polyolefin copolymer
	Core colours	2 up to 5 core acc. to CENELEC HD 308 (see page 139) 6 core and more: black numbered with yellow/green earthing
②	Fillers (optional)	RADOX® 125
③	Separator	glass fabric tape
④	Sheath	RADOX® 125M: extruded and electron beam crosslinked polyolefin copolymer
	Colour	black

Technical data

Voltage rating U_O/U	≤ 16 x 0.50 mm²	450 / 750 V AC
Test voltage	≤ 16 x 0.50 mm²	2500 V AC
Voltage rating U_O/U	> 16 x 0.50 mm²	600 / 1000 V AC
Test voltage	> 16 x 0.50 mm²	3500 V AC
Temperature range	fixed	-40 °C up to +125 °C
Min. operating temperature	flexing	-25 °C
Max. conductor temperature	at short circuit (max. 5s)	+280 °C
Min. bending radius	fixed	3 x cable-dia.
	flexing	5 x cable-dia.

Fire tests

Flame propagation:		
Verical of a single cable	EN 50265-2-1, IEC 60332-1	
Vertical of bunched cables	EN 50266-2-4, IEC 60332-3-24	Category C
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	

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Extract from our delivery programme

Cross section	Conductor			Core	Cable	Weight
n x mm²	Construction nom. n x mm dia.	dia. max. mm	R_{20} IEC 60228 max. Ω/km	dia. mm	dia. mm	nom. kg/100 m
4 x 0.25	19 x 0.12	0.61	88.5	1.45 ± 0.05	5.4 ± 0.3	4.0
4 x 0.5	19 x 0.18	0.9	40.1	1.7 ± 0.10	6.1 ± 0.3	6.5
2 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	6.6 ± 0.3	6.3
3 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	7.3 ± 0.3	7.9
4 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	7.7 ± 0.3	8.8
5 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	8.6 ± 0.3	10.9
2 x 1.0	32 x 0.20	1.3	20.0	2.6 ± 0.10	7.5 ± 0.3	7.4
3 x 1.0	32 x 0.20	1.3	20.0	2.6 ± 0.10	7.9 ± 0.3	9.1
2 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	7.8 ± 0.3	8.6
3 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	8.3 ± 0.3	11.0
4 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	9.2 ± 0.3	13.6
5 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	10.4 ± 0.4	16.8
7 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	12.3 ± 0.4	23.6
2 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	9.1 ± 0.3	13.0
3 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	10.1 ± 0.4	16.6
4 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	11.3 ± 0.4	20.9
5 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	12.4 ± 0.4	24.9
4 x 4.0	56 x 0.30	2.6	5.09	4.15 ± 0.15	13.0 ± 0.4	29.8
5 x 4.0	56 x 0.30	2.6	5.09	4.15 ± 0.15	14.6 ± 0.4	36.7
4 x 10	78 x 0.40	4.4	1.95	6.15 ± 0.15	19.0 ± 0.5	78.2
5 x 10	78 x 0.40	4.4	1.95	6.15 ± 0.15	21.4 ± 0.5	83.3

Other cross sections on request.