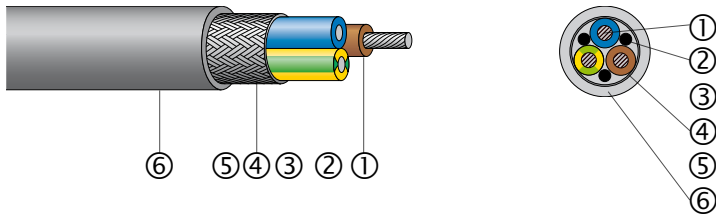


# RADOX® 125

## Multi core cable – screened



- 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
	other colours on request
② Fillers (optional)	RADOX® 125
③ Separator (optional)	plastic tape
④ Screen	copper braid, optical coverage: ≥ 85 %
⑤ Separator (optional)	plastic tape
⑥ Sheath	RADOX® 125M
	extruded and electron beam crosslinked polyolefin copolymer
Colour	black

### Technical data

Voltage rating $U_0/U$	≤ 16 x 0.50 mm <sup>2</sup>	450 / 750 V AC
Test voltage	≤ 16 x 0.50 mm <sup>2</sup>	2500 V AC
Voltage rating $U_0/U$	> 16 x 0.50 mm <sup>2</sup>	600 / 1000 V AC
Test voltage	> 16 x 0.50 mm <sup>2</sup>	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	4 x cable-dia.
	flexing	5 x cable-dia.

### Fire tests

Flame propagation:		
Vertical 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	

# RADOX® 125

Multi core cable – screened

Extract from our delivery programme

Cross section n x mm <sup>2</sup>	Conductor			Core dia. mm	Screen dia. mm	Cable dia. mm	Weight nom. kg/100 m
	Construction nom. n x mm dia.	dia. max. mm	R <sub>20</sub> IEC 60228 max. Ω/km				
4 x 0.25	19 x 0.13	0.6	85.9	1.45 ± 0.05	4.1	5.9 ± 0.3	5.2
2 x 0.5	19 x 0.18	0.9	40.1	1.7 ± 0.10	4.0	5.9 ± 0.3	5.7
4 x 0.5	19 x 0.18	0.9	40.1	1.7 ± 0.10	4.8	6.8 ± 0.3	8.0
2 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	4.9	6.9 ± 0.3	7.4
3 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	5.5	7.6 ± 0.3	9.7
4 x 0.75	24 x 0.20	1.15	26.7	2.2 ± 0.10	6.2	8.4 ± 0.3	11.7
2 x 1.0	32 x 0.20	1.3	20.0	2.6 ± 0.10	5.9	7.9 ± 0.3	10.6
3 x 1.0	32 x 0.20	1.3	20.0	2.6 ± 0.10	6.3	8.7 ± 0.3	12.7
4 x 1.0	32 x 0.20	1.3	20.0	2.6 ± 0.10	7.0	9.3 ± 0.3	14.4
3 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	6.5	8.7 ± 0.3	13.2
4 x 1.5	30 x 0.25	1.55	13.7	2.73 ± 0.10	7.6	10.0 ± 0.4	17.5
4 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	9.8	12.4 ± 0.4	26.8
5 x 2.5	50 x 0.25	2.05	8.21	3.50 ± 0.10	10.4	13.1 ± 0.4	30.9

Other cross sections on request.