



Fire resistant control cable

CONSTRUCTION

HD 627 S1:1996/A2:2005 Part 7 Section D1 Applicable parts

Conductor:	1,5 - 2,5 mm ² circular solid copper, IEC 60228 class1
Conductor screen:	Flame resistant tape layer(s)
Insulation:	Extruded cross-linked polyethylene
Identification:	Black cores with white numbers
Inner covering:	Extruded halogen free filling compound
Sheath:	Extruded halogen free and UV-resistant compound. Colour orange

MECHANICAL DETAILS

Minimum bending radii:	During handling and installation	12 x D
	In case of only one smooth bending to final position	8 x D
Maximum pulling forces:	(A= total area of conductors)	A x 50 N/mm ²
	(pulling by pulling-stocking)	8 000N
	Pulling force must not exceed	20 000 N
Temperature limits:	Max. conductor temperature during operation	90 °C
	Max. conductor temperature during short circuit (duration not exceeding 5 seconds)	250 °C
	Min. temperature during handling and installation	-15 °C
	Min. temperature during transportation operation	-40 °C
Applications:	Cables may be used for fixed installation in measuring, control and signalling circuits, indoor, outdoor, on surface, in conduits. Where needed halogen free, non-corrosive gases and low smoke density cables.	



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FIRE PERFORMANCE

IEC 60331-21		Fire resistant, 180 min.
IEC 60331-1, -2	EN 50200, EN 50362	Fire resistant with shock, 90 min.
IEC 60332-3-22	EN 60332-3-22	Flame retardant in a bunch, category A
IEC 60754	EN 60754	Halogen free, non corrosive
IEC 61034	EN 61034	Low smoke density

REKA code	Size [mm ²]	Conductor resistance DC 20 °C [Ω/km]	Insulation thickness [mm]	Oversheat thickness [mm]	Overall diameter approx. [mm]	Weight approx. [kg/km]
1145581	7x1,5	12,1	0,7	1,5	15	290
1145585	12x1,5	12,1	0,7	1,5	19	470
1145587	19x1,5	12,1	0,7	1,5	25	690
1145591	27x1,5	12,1	0,7	1,6	29	940
1145596	7x2,5	7,41	0,8	1,5	17	410
1145598	12x2,5	7,41	0,8	1,5	24	640
1145599	19x2,5	7,41	0,8	1,6	29	950
1145607	27x2,5	7,41	0,8	1,7	33	1300