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**TECHNICAL DATA SHEET**

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**ELEKTRA MD HEATING MAT**

Series resistant double conductor cable

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**Introduction**

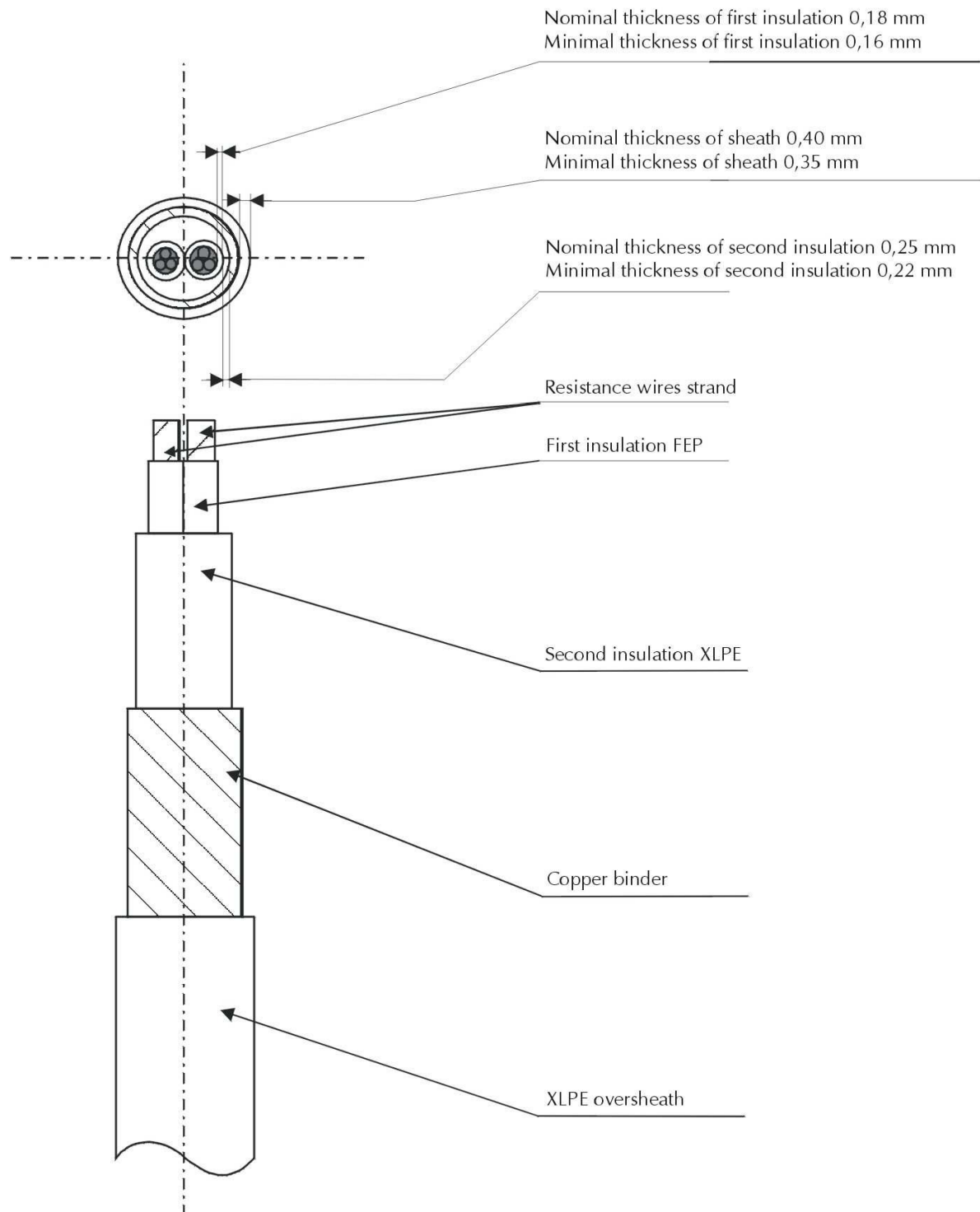
The MD heating cable is designed for all purpose use, applications for under floor heating, especially for heating mats.

The FEP insulation and XLPE outer sheath are extremely resistant to concrete, water and soil.

**Technical specification**

Construction:	Heating conductor: - FEP insulation - Copper binder - XLPE or PVC outer sheath  Fiberglass mesh  Cold tails ( H03VV-F 3x0,75 mm <sup>2</sup> )
Conductor form:	Round
Cable diameter:	3,4 mm
Resistance range:	32 to 0,40 Ω/m
Nominal power rating:	6 to 8 W/m (MD100) and 10 to 12 W/m (MD160)
Max. operating temperature:	120 °C
Peak withstand temperature:	135 °C
Nominal voltage:	300/500 V AC
Test (dielectric) voltage:	2500 V AC
Width of heating mat:	0,5 m
Heating mat thickness:	4 mm
Standard (heating cable):	IEC Publication 800; IEC 1423-1; IEC 1423-2
Standard (heating mat):	EN 60335-1, EN 60335-2-96

## Construction



## Technical data

100 W/m<sup>2</sup> 230V

Type	Surface	Heating cable type	Core resistance (Ω/m)		Power of the mat (W)	
			min	max	min	max
	m <sup>2</sup>					
MD 100/1,0	1,00	MD 1	28,26	31,22	95	105
MD 100/1,5	1,50	MD 2	23,36	25,80	142,5	157,5
MD 100/2,0	2,00	MD 3	10,25	11,33	190	210
MD 100/2,5	2,50	MD 4	6,278	6,940	237,5	262,5
MD 100/3,0	3,00	MD 5	4,960	5,482	285	315
MD 100/3,5	3,50	MD 6	3,138	3,470	332,5	367,5
MD 100/4,0	4,00	MD 7	2,480	2,742	380	420
MD 100/4,5	4,50	MD 8	1,654	1,828	427,5	472,5
MD 100/5,0	5,00	MD 9	1,046	1,156	475	525
MD 100/6,0	6,00	MD 10	0,8268	0,9138	570	630
MD 100/8,0	8,00	MD 11	0,5306	0,5864	760	840
MD 100/10,0	10,00	MD 12	0,4192	0,4634	950	1050

## Technical data

160 W/m<sup>2</sup> 230V

Type	Surface m <sup>2</sup>	Heating cable type	Core resistance (Ω/m)		Power of the mat (W)	
			min	max	min	max
MD 160/1,0	1,00	MD 2	23,36	25,80	152	168
MD 160/1,5	1,50	MD 3	10,25	11,33	228	252
MD 160/2,0	2,00	MD 5	4,960	5,482	304	336
MD 160/2,5	2,50	MD 6	3,138	3,470	380	420
MD 160/3,0	3,00	MD 7	2,480	2,742	456	504
MD 160/3,5	3,50	MD 8	1,654	1,828	532	588
MD 160/4,0	4,00	MD 9	1,046	1,156	608	672
MD 160/4,5	4,50	MD 10	0,8268	0,9138	684	756
MD 160/5,0	5,00	MD 10	0,8268	0,9138	760	840
MD 160/6,0	6,00	MD 11	0,5306	0,5864	912	1008
MD 160/7,0	7,00	MD 12	0,4192	0,4634	1064	1176
MD 160/8,0	8,00	MD 12	0,4192	0,4634	1216	1344

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