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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**

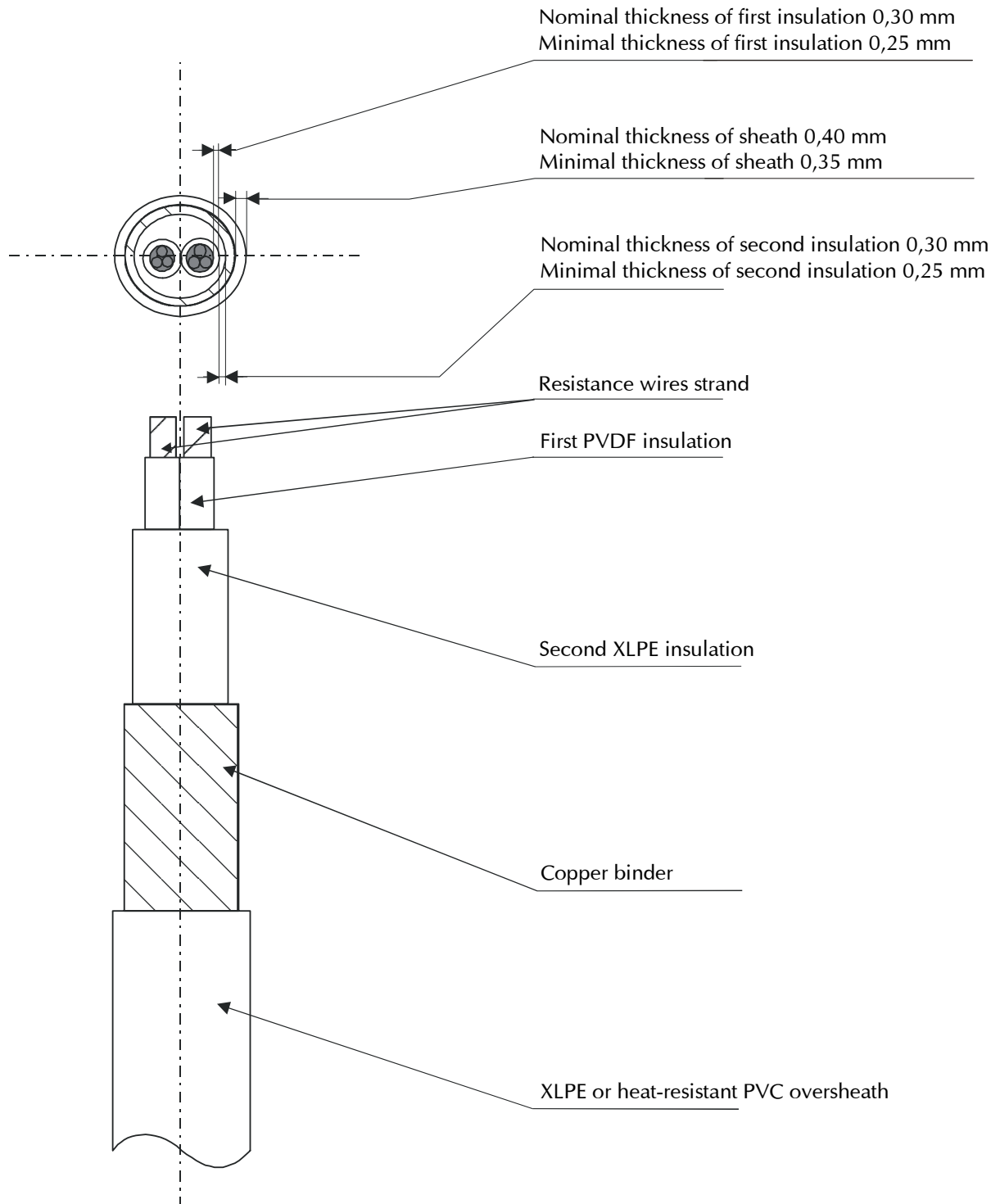
The MD heating cable is designed for all purpose use, applications for under floor heating, especially for heating mats.

The PVDF insulation and XLPE or PVC outer sheath are extremely resistant to concrete, water and soil.

**Technical specification**

Construction:	Heating conductor: - PVDF insulation - Copper binder - XLPE or PVC outer sheath  Fiberglass mesh Cold tails
Conductor form:	Round
Cable diameter:	4,0 to 4,4 mm
Resistance range:	16 to 0,20 $\Omega$ /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:	4,5 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 m <sup>2</sup>	Heating cable type	Core resistance (Ω/m)		Power of the mat (W)	
			min	max	min	max
MD 100/1,0	1,00	MD 1	14,13	15,61	95,2	105,3
MD 100/1,5	1,50	MD 2	10,68	11,81	142,9	157,9
MD 100/2,0	2,00	MD 3	5,127	5,667	190,5	210,5
MD 100/2,5	2,50	MD 4	3,139	3,470	238,1	263,2
MD 100/3,0	3,00	MD 5	2,480	2,741	285,7	315,8
MD 100/3,5	3,50	MD 6	1,569	1,735	333,3	368,4
MD 100/4,0	4,00	MD 7	1,240	1,371	381,0	421,1
MD 100/4,5	4,50	MD 8	0,8268	0,9138	428,6	473,7
MD 100/5,0	5,00	MD 9	0,5232	0,5782	476,2	526,3
MD 100/6,0	6,00	MD 10	0,4134	0,4569	571,4	631,6
MD 100/8,0	8,00	MD 11	0,2653	0,2932	760	840
MD 100/10,0	10,00	MD 12	0,2096	0,2317	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	10,68	11,81	152,4	168,4
MD 160/1,5	1,50	MD 3	5,127	5,667	228,6	252,6
MD 160/2,0	2,00	MD 5	2,480	2,741	304,8	336,8
MD 160/2,5	2,50	MD 6	1,569	1,735	381,0	421,1
MD 160/3,0	3,00	MD 7	1,240	1,371	457,1	505,3
MD 160/3,5	3,50	MD 8	0,8268	0,9138	533,3	589,5
MD 160/4,0	4,00	MD 9	0,5232	0,5782	609,5	673,7
MD 160/4,5	4,50	MD 10	0,4134	0,4569	685,7	757,9
MD 160/5,0	5,00	MD 10	0,4134	0,4569	760	840
MD 160/6,0	6,00	MD 11	0,2653	0,2932	912	1008
MD 160/7,0	7,00	MD 12	0,2096	0,2317	1064	1176
MD 160/8,0	8,00	MD 12	0,2096	0,2317	1216	1344

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Telephone (+4822) 843 32 82  
 Fax (+4822) 843 47 52  
 e-mail: info@elektra.pl  
 http:// www.elektra.pl

ELEKTRA  
 ul. Marynarska 14  
 02-674 Warszawa  
 Poland

