

Resistance Table – Cables, Mats, Foils.

Resistance readings tolerance = +10 / -6%

Under Tile Cables – (TP & TPP)		
Watts (power)	Length (Meters)	Resistance (ohms)
115	11.5	460
140	14	378
170	17	311
225	22.5	235
290	29	182
350	35	151
400	40	132
480	48	110
560	56	95
640	64	83
700	70	76
760	76	70
820	82	65
920	92	57
1040	104	51
1140	114	46
1250	125	42
1450	145	36
1600	160	33
1800	180	29

In-Screed Cables – (SC)		
Watts (power)	Length (Meters)	Resistance (ohms)
450	27	118
600	35	88
700	41	75
900	54	59
1100	65	48
1350	79	39
1450	84	36
1650	96	32
1900	112	28

2400	141	22
2900	170	18
3100	183	17

Under Tile Mats 100w/m² – (HML)

Watts (power)	Length (Meters)	Resistance (ohms)
100	2	529
150	3	352
200	4	264
250	5	211
300	6	176
350	7	151
400	8	132
450	8	118
500	10	105
600	12	88
700	14	75
800	16	66
900	18	59
1000	20	53
1100	22	48
1200	24	44

Under Tile Mats 150w/m² – (TPM)

Watts (power)	Length (Meters)	Resistance (ohms)
150	2	352
225	3	235
300	4	176
375	5	141
450	6	117
525	7	100
600	8	88
675	8	79
750	10	70
900	12	59
1050	14	50
1200	16	44
1350	18	39
1500	20	35
1650	22	32
1800	24	29

Under Tile Mats 200w/m² – (HMH)

Watts (power)	Length (Meters)	Resistance (ohms)
200	2	264
300	3	176
400	4	132
500	5	105
600	6	88
700	7	75
800	8	66
900	8	59
1000	10	53
1200	12	44
1400	14	38
1600	16	33
1800	18	30
2000	20	26
2200	22	24
2400	24	22

Under Wood Foil Mats 140w/m² – (LFM)

Watts (power)	Length (Meters)	Resistance (ohms)
140	2	378
210	3	252
280	4	189
350	5	151
420	6	126
490	7	108
560	8	95
630	8	84
700	10	76
840	12	63
980	14	54
1120	16	47
1260	18	42
1400	20	38
1540	22	34
1680	24	32

Floor Temperature Probe

Resistance (ohms) 3000 @ 15 degrees C - to - 2500 @ 20 degrees C