

On Slab Heating Specs Sheet (Under Tile Heating)



HOTWIRE UTH is a high-quality heating cable with FEP (teflon) insulated conductor, braided screen and a black PVC outer sheath providing invisible, comfortable, fast, dust-free, quiet and energy-saving floor heating solution.

The heating element is only 3.0mm thick and considerably reduces the floor height, it ideal for both new floor construction and retrofit in existing buildings.

HOTWIRE UTH advantages are:

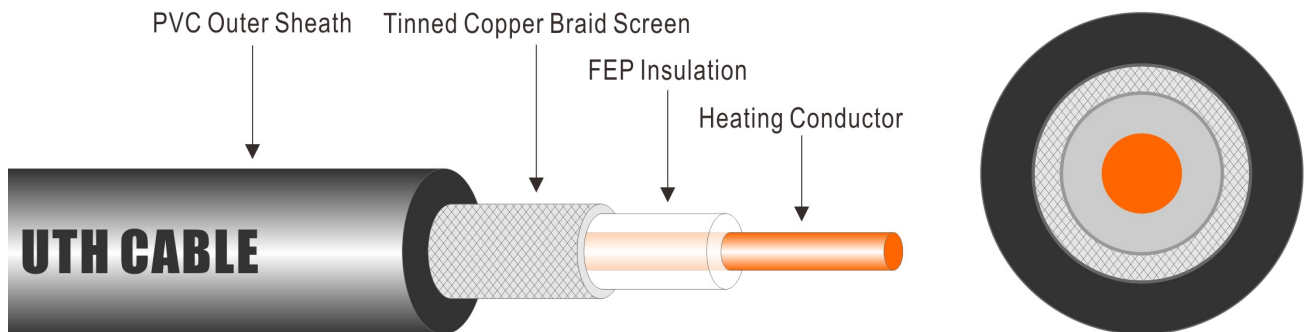
The spooled cable with a half-way mark allows a fast, simple installation. Two cold tails with visible connections avoid installing the heating element in the wall. The IPX7 rating (ingress protection grade) allows the installation into the wet rooms.

HOTWIRE warrants that all of our UTH cables are free from defects in material and workmanship in their manufacture, they are all carefully tested including resistance measurement and 1500V insulation test (high voltage test) before their shipment and are well packed to avoid the damage during their transit.

Hotwire has been proudly owned and operated in Australia since 2004.



UTH CABLE CONSTRUCTION



MAIN TECHNICAL PARAMETERS

Hotwire Elements comply with the following standards

- IEC60335-2-96
- IEC60800-2009

TYPE	VALUE
Operation Voltage	220-240V~
Cable construction	Round, twin conductor with screen, two cold leads
Output	11.1W/m @230V ~
Cable thickness	3.0mm
Conductor Insulation	FEP - Max. temperature 205°C
Outer Sheath	PVC - Max. temperature 105°C
Screen	1.0mm ² , tinned CU braid
Cold Lead	3.0m, earthed
Min. installation temperature	-5°C
Bending radius	25mm
IP Class	IPX7

Specification & sizing - 11.1W/M



twin cold tail Heating Cable

Cable Code	Output @230V (watts)	Cable Length (m)	Total Ohms @ 20°C (Ω)	Heated Floor Area @ wire centres in mm (sqm)			Power Density @ wire centres in mm (watts per sqm)		
				55	74	100	55	74	100
UTH-200	200	18.0	264.5	0.99	1.33	1.80	212.5	188.9	154.5
UTH-300	300	27.0	176.3	1.49	2.00	2.70			
UTH-400	400	36.0	132.3	1.98	2.67	3.60			
UTH-500	500	45.0	105.8	2.48	3.33	4.50			
UTH-600	600	54.1	88.2	2.97	4.00	5.41			
UTH-700	700	63.1	75.6	3.47	4.67	6.31			
UTH-800	800	72.1	66.1	3.96	5.33	7.21			
UTH-900	900	81.1	58.8	4.46	6.00	8.11			
UTH-1000	1000	90.1	52.9	4.95	6.67	9.01			
UTH-1250	1250	112.6	42.3	6.19	8.33	11.26			
UTH-1500	1500	135.1	35.3	7.43	10.00	13.51			
UTH-1750	1750	157.7	30.2	8.67	11.67	15.77			
UTH-2000	2000	180.2	26.5	9.90	13.33	18.02			
UTH-2500	2500	225.2	21.2	12.38	16.67	22.52			
UTH-3000	3000	270.3	17.6	14.85	20.20	27.03			

NOTES:

For a larger or different floor area heating, please call the Hotwire help line.

Heated Floor Area table is by calculation only, actual cable layout on the floor may have an effect on the actual layout.

The table shows area in sqm that any cable will cover at various cable centres, e.g. if a UTH-1000 is laid up with the runs 74mm apart, a total heated area of 6.67sqm should be achieved.

Power Density table shows the watts per sqm of the heated area, the higher the power density is, the greater (quicker) the temperature will rise on the floor surface.

ATTENTION:

The minimum cable spacing should be 50mm, the elements should be at least 80mm away from walls, fixtures and pipes. Remember, the heating element is a continuous wire that must never be lengthened or shortened to fit; therefore, avoid selecting a spool that is too large.