

# Inscribed Heating Specs Sheet



HOTWIRE ICH17 (Or In Screed Heating) is a high-quality heating cable with twin XLPE insulated conductors (heating conductor + return conductor), 1.0mm solid tinned copper earth conductor, alu-foil screen shield and a black and reinforced PVC outer sheath providing invisible, comfortable, fast, dust-free, quiet and energy-saving in-slab floor heating solution.



This 6mm thick element is ideal for new "screed" or thin slab (less than 150 mm) floors.

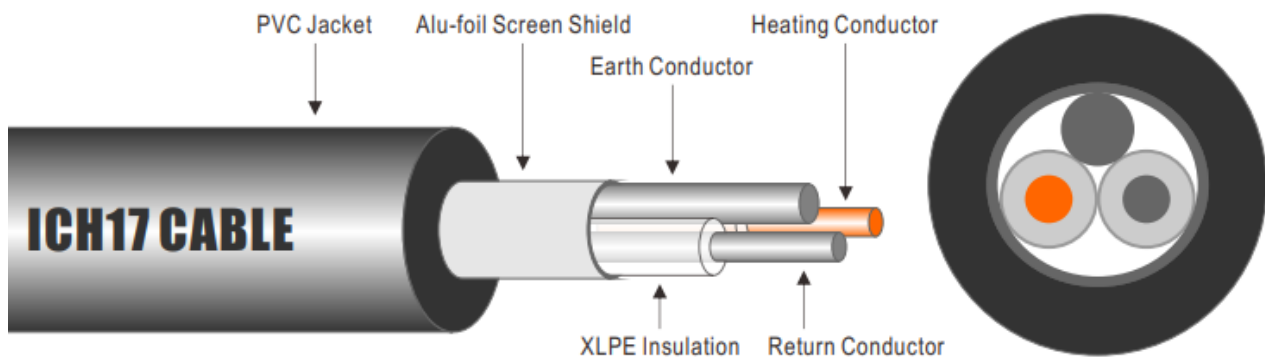
The Spooled cable, reinforced with tough PVC sheath allows a fast, simple installation. IPX7 rating (ingress protection grade) allows installation into wetrooms and shower areas.

The single cold tail is pre-terminated allowing for a quick simple installation.

HOTWIRE warrants that all of our ICH17 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.

## INSCREED 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 360° screen, one cold lead
Output	17 W/m @230V ~
Cable thickness	6.0mm
Conductor Insulation	XLPE - Max. temperature, 90°C
Outer Sheath	PVC - Max. temperature 105°C
Screen	100% Coverage; alu-foil
Cold Lead	3.5m, earthed
Min. installation temperature	-5°C
Bending radius	50mm
IP Class	IPX7

# Specification & sizing - 17W/M

## twin Single 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)		
				80	90	110	80	90	100
IS-200	200	11.8	264.5	0.94	1.06	1.29	212.5	188.9	154.5
IS-300	300	117.6	176.3	1.41	1.59	1.94			
IS-450	450	26.5	177.6	2.12	2.38	2.91			
IS-600	600	35.3	88.2	2.82	3.18	3.88			
IS-750	750	44.1	70.5	3.53	3.97	4.85			
IS-900	900	52.9	58.8	4.24	4.76	5.83			
IS-1050	1050	61.8	50.4	4.94	5.56	6.80			
IS-1200	1200	70.6	44.1	5.65	6.35	7.77			
IS-1350	1350	79.4	39.2	6.35	7.15	8.74			
IS-1500	1500	88.2	35.3	7.06	7.94	9.71			
IS-1800	1800	105.9	29.4	8.47	9.53	11.65			
IS-2100	2100	123.5	25.2	9.88	11.12	13.59			
IS-2400	2400	141.2	22.0	11.29	12.71	15.53			
IS-3000	3000	176.5	17.6	14.12	15.88	19.42			
IS-3600	3600	211.8	14.7	16.94	19.06	23.30			

### 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 IS-1200 is laid up with the runs 90mm apart, a total heated area of 6.35sqm 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 65mm, 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.