

### DESCRIPTION

The ESWA Infloor heating system is designed to utilise the thermal mass of concrete floor, allowing energy to be stored at the cheaper 'night rate' tariff. This large heating source allows an even and gentle release of this energy throughout the day. Each element is terminated with 2 'cold tails', each with 2 conductors - an earth conductor and a conductor connected to the resistance wire. 10 year manufacturers warranty.

### APPLICATION

ESWA Infloor heating systems can be used as a *storage system*, where the cables are laid at 50mm in 100mm concrete. An ideal heating solution for houses, apartments, and offices. ESWA infloor heating can also be used as a demand system with the cable laid closer to the surface (25mm).

### COMPLIANCES

- IEC 60800

### CONSTRUCTION

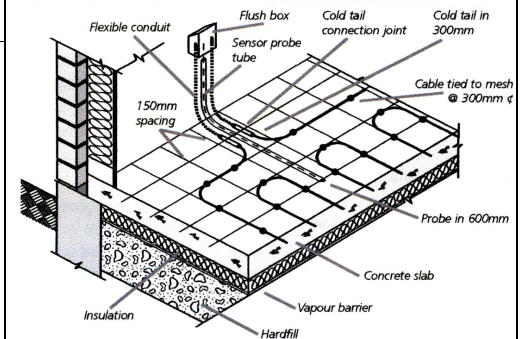
#### Heating Cable

- Stranded Resistance Wire
- XLPe Insulation
- Tinned Copper Earth Wire
- Aluminium Metallic Screen
- PVC Outer Sheath - Blue
- Overall Diameter - 6.5mm

#### Cold Tails (Factory Fitted) x 2

- Two Core Stranded Cu TPS
- 1 x Tail Red & Green Cores
- 1 x Tail Black & Green Cores

### ESWA heating cable installation in a concrete slab



Element	Length (m)	Resistance		230 V		240 V		Spacing (mm)
		(ohms/m)	(Total ohms)	Area (m <sup>2</sup> )	Power (W)	Area (m <sup>2</sup> )	Power (W)	
F1	12	12.70	152.4	2	345	2	380	120
F2	19	5.35	101.7	3	520	3	565	120
F3	24	3.50	84.0	4	630	4	685	120
F4	28	2.50	70.0	5	755	5	825	120
F5	37	1.40	51.8	6 - 7	1020	6 - 7	1110	150
F6	44	1.00	44.0	8	1200	8	1310	150
F7	53	0.70	37.1	9 - 10	1425	9 - 11	1555	150
F8	60	0.49	29.4	11 - 12	1800	12 - 14	1960	150
F9	80	0.30	24.0	13 - 16	2205	15 - 17	2400	150
F10	97	0.20	19.4	17 - 20	2730	18 - 21	2970	150
F11	120	0.13	15.6	21 - 24	3390	22 - 26	3690	150
F12	140	0.09	12.6	25 - 30	4200	27 - 30	4570	150
F13	160	0.07	11.2	31 - 34	4725	31 - 36	5145	150
F14	190	0.05	9.5	35 - 40	5570	37 - 40	6065	150

### CONTROLS

- DIN Rail mounted electronic thermostat with remote floor sensor - OJ Electronic ETV-1991P.
- Options for 'demand systems' use flush mounted electronic thermostat with remote floor sensor, with or without a built-in time clock - OJ Electronic MTC-1991 or MCC2-1991.

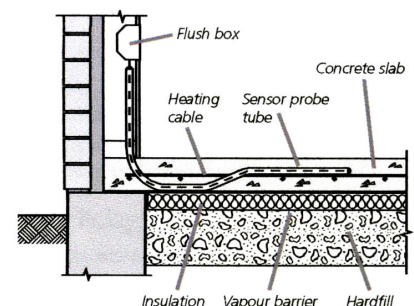
### INSTALLATION

- ESWA heating cables are laid on top of, and attached to, the steel mesh within the concrete slab. Embedded sensor probes are connected to thermostats in each zone to give optimum control.
- For full installation details refer to ESWA Infloor Heating Installation Instructions.

### COMMISSIONING

- For commissioning details refer to ESWA Infloor Heating Commissioning Instructions.

### Probe installation in a concrete slab



### ENERSAVE Products Limited

NEW ZEALAND • PO Box 8867, CHRISTCHURCH • Free Phone/Fax : 0800 508 509 • Email : info@enersave.co.nz • www.enersave.co.nz  
 AUSTRALIA • Unit 107/45 Gilby Road, Mount Waverley, VICTORIA 3149 • Phone 61 3 9558 8211 • Fax 61 3 9558 8222 • ARBN 093 247 413