

Multiflex 20 – Outline Installation Procedure

The Thermoflex matting should be controlled by a thermostat recommended by Ebeco UK, and on a circuit protected by an earth fault RCD 30mA.

The installation must be carried out in accordance with electrical regulations and under the supervision of a qualified electrician.

Measure the cable's insulation value and resistance.

When embedding in concrete the c-c spacing is normally around 20 cm and the cable is cast about 50 mm under the completed floor surface. In conservatories the c-c spacing is usually 12-15 cm. Using this reduced centre-to-centre measurement (<15 cm) the cable can also be laid in a layer of screed with a minimum depth of 15 mm. In order to obtain more exact c-c spacing divide the installation area by the length of the cable.

If metal securing strips are used, secure these square to the cable's installation, spaced at 1 metre intervals.

If the cable is being installed directly over insulation then lay a wire mesh first so that the screed can completely surround the cable. If the insulation is expanded polystyrene (such as Jablite) then cover the insulation with a polythene sheet (such as a DPM) to ensure there is no contact with the cable.

With firmer foam insulation boards (such as Celotex and Kingspan) the simplest way to secure the cable is to use barbed staples.

We can supply the metal securing strips, wire mesh and staples.

You must not shorten the heating cable. Only the cold cable may be shortened. The cable is manufactured with an integrated return, i.e. only one end (cold cable) needs to be connected to 230V.

Roll out the cable; start by the connection box. The cable is fixed to the metal securing strips, or secured to the reinforcement bar (if present) using cables ties or similar, or stapled to the insulation.

The heating cable must not cross expansion joints in the concrete.

The cable should be insulation and resistance measured again both before and after it has been embedded. This is to ensure that the cable has not been damaged during laying. The values have to be entered in the Guarantee Certificate.

Control of the room and floor temperatures takes place using a thermostat with a floor sensor from our range of thermostats. The sensor should be placed inside a conduit pipe, which is then laid in the screed or concrete between two runs, at least 0.5 m from the wall. Tape over the end of the conduit.

The cable must not be used for at least 4 weeks after the completed jointing work, or according to the floor manufacturer's instructions.

