

BVF SX 28

Snow defrost heating cable

SPECIFICATION:

Cable Construction:	Twin conductor
Rated Voltage:	230V
Output:	28W/m \pm 10%
Heating Element Size:	22.9 m to 120 m
Bending radius:	50mm
Cable Diameter:	7.6mm-8.6mm
Conductor Insulation:	XLPE
Outer Insulation:	PE and PVC
Min. Installation Temp.:	5°C
Cold lead :	10m length



BEFORE YOU START:

Field measure the area for which the cable is designed. Verify the area for the project is the same as the area originally designed. If the area has changed (larger or smaller), please call the factory to assure that the cable will be effective and operate in a safe manner. If you have any questions, it is important to contact our Tech Support Department. Any changes to the pre-determined design area can seriously affect the performance of the system.

GENERAL RULES:

The heating cables must be evenly distributed. Please use the factory designated spacing between the cables. This number is found on the cable Tag that is attached to each cable. **It is very important for the cable spacing to be held to the design parameters in order to avoid installation problems.** The base for concrete should be compacted and stone and other sharp objects, which can damage the cables, should be cleared away before laying the cable. Depending on the application, the thickness of the final covering must not exceed the maximum allowed. This is to insure that there is adequate transfer of heat to the surface. Any variation of this thickness may cause poor performance or possible damage to the heating cables. The direction of the cable layout is not important in asphalt or pavers in sand. In concrete it is strongly recommended to lay the cable across the shorter dimension of the space. If for any reason the concrete cracks, it normally cracks across the shorter dimension. It is important that the cable finishes at the same point it started, which is usually a junction box.

Decide where you are going to start and end each of your cable(s) within the design area. Start by laying the cable with the splice, making sure the splice (heat shrink) is buried into the pour. Run the cable along the outside edge of the design area. After the interior edge is down, start to use the full "on center" spacing located on the cable tag and lay the cable in a serpentine fashion in order to fill the design area, ending the cable where it started. It is important to remember to maintain half the "on center" spacing dimension around the remaining outer edges of the design area. Where multiple cables are being installed into one design, follow the layout until only enough cable remains unattached to make the homerun back to the starting point. Repeat as required.

TESTING PROCEDURES FOR BVF SX CABLE

1. Verify that the cable you ordered is the one that you received.
2. Find your model number in Table 1 and record the Ohms for later use.
3. Visually inspect the heating cable before installation to locate obvious flaws or breaks.
4. With a digital OHM meter, first check resistance between the center conductor and the ground wire (twisted copper). Reading should be OL or infinity.
5. Make sure all the red heating cable and the splice are completely embedded in the underlayment. Only the cold leads are permitted to be out of the pour.
6. During the installation of the topping, monitor the cable for any sudden changes in the ohms.
7. After the cable is installed, repeat steps 3 & 4.
8. When performing an actual amperage test, never run the cable for more than 15 seconds.
9. After the cable is installed repeat steps 4 & 5 for warranty registration purposes.

Temperature conditions: Heating cables should not be laid in temperatures below 5°C as the outer plastic

SUPPORT:



Company name: Local dealer Ltd

Phone

Mail

Operation hours

Address

www.bvfheating.com

IMPORTANT NOTE: THESE CABLES ARE NOT TO BE INSTALLED IN WALLS OR CEILINGS FOR ANY REASON AND MUST BE INSTALLED BY A QUALIFIED, LICENSED ELECTRICIAN.

NEVER:

- Cross the red heating cable section over itself.
- Cut the red heating cable section for any reason.
- Cross a true concrete expansion joint.
- Run the red heating cable section directly into the junction box.
- Subject any part of the red cable to harmful surfaces.

ALWAYS:

- Follow local and national electrical codes.
- Test the cable for the proper readings before, during and after the installation.
- Make certain the splice is completely buried in the pour.
- Fill out the warranty card and return it to Orbit

1. IDENTIFYING THE CABLE BVF SX SNOW DEFROST

A). COLD LEAD "SPLICE", MARKED ABOUT 10M FROM THE START OF CABLE.

B) END SEAL



ACTUAL "HEATING CABLE" LOCATED BETWEEN THE SPLICE AND END SEAL.

2. INSTALLATION INSTRUCTION

A) CONCRETE APPLICATIONS (Cable Depth, Min.3cm - Max. 15cm From Surface)

FLAT AREAS: Install re-bar or wire mesh in the area to be heated. Tie heating cable to re-bar or wire mesh with wire ties.

EXTERNAL STAIRS: The cable should be laid lengthwise on the steps so that they only lie on the horizontal surfaces. Detail 1 shows a section of a stairway with heating cables laid directly on the concrete. For installations of this kind it is essential to have a roughcast concrete step as a base. The cables should be installed with the first run no more than 4-5cm from the front edge of the step. Then refer to the Cable Tag for number of runs per step and lay the remaining cable spaced evenly on the step tread. **(DISREGARD THE SPACING FORMULA WHEN DEALING WITH STEPS)** When running the cable up the riser of the step it is suggested that a groove be made in the riser in order to keep the cable flat.

LAYING OF THE CONCRETE: Concrete can be poured directly from the cement truck and spread and leveled manually.

B) ASPHALT APPLICATIONS (Cable Depth Should Be 8cm- 12cm From Surface)

DRIVEWAYS (With Complete Cable Coverage) Cable can be installed directly on the binder layer the existing driveway with wire mesh spaced no further than 30cm apart or tied to wire mesh.

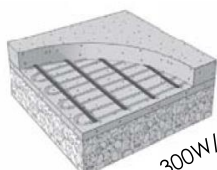
Laying Of The Asphalt: It is required that all asphalt be laid manually. Top coat grade material must be used and hand shoveled to cover the cable then using manual panel vibrators

C) PAVERS IN SAND APPLICATIONS (Max. Cable Depth 6-10cm From Paver Surface)

A minimum of 3cm of compacted sand should be applied for the base to lay the cable on. DO NOT lay the cable down directly on the stone base or any other sharp surface. The cable should be arranged and tied down to wire mesh / deer fencing or equivalent. Following the Cable Tag "on center" spacing formula using cable ties. A minimum of 3cm of compacted sand should then be applied on top of the cable. After the sand is compacted the final layer of Pavers can be installed.

3. TYPICAL SNOW MELTING INSTALLATIONS

A) Embedded in CONCRETE



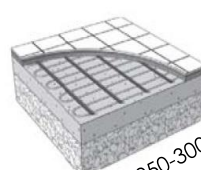
Approx.: 300W/m²

B) Embedded in ASPHALT



Approx.: 250W/m²

C) Under STONE PAVERS



Approx.: 250-300W/m²