



## TF SBG-T BLACK

Self-limiting heating cable - frost protection roofs and gutters

TF SBG-T is a self-limiting heating cable for frost protection of roof gutters and drainage systems, also suitable for frost protection in connection with houses, plants and industrial installations.

The self-limiting heating cable is designed to withstand temperatures up to 80°C. UV-resistant.

### PRODUCT FEATURES

- Frost protection
- Drainage systems
- Roof gutters
- Flat roof

### GROUND PROTECTION/RCD/THERMOSTAT

The heating system must be equipped with an RCD with a maximum trip value of 30mA.

The heating system must be installed with an electronic thermostat for energy efficiency and temperature control.

### PRODUCT DATA

|                                  |   |
|----------------------------------|---|
| Voltage                          | 230VAC  |
| Cable type                       | Self limiting heating cable                           |
| Grounding                        | Helically wrapped aluminum foil with return conductor |
| Bus conductor                    | Nickel Coated Copper Wire                             |
| Max temperature without load     | 80  |
| Max temperature with load        | 65  |
| Min bend radius (mm)             | 25mm  |
| Weight per meter (gram)          | 100g  |
| Min/max installation temperature | -30 to 40°C   |
| Colour                           | Black   |
| Outer sleeve material            | Polyolefin  |
| IP Code                          | IPX7  |
| Certification                    | Reach, RoHS   |
| EN Standards                     | CE, EN 60079, EN 60529                                |
| Warranty international           | 2 years   |
| Customs number                   | 85168000  |



## Product Overview

| Art no.   | Product              | Effect per m. |  |
|-----------|----------------------|---------------|--|
| 10 114 50 | TF SBG-T Black 15W/m | 15W           |  |
| 10 114 59 | TF SBG-T Black 20W/m | 20W           |  |
| 10 114 60 | TF SBG-T Black 25W/m | 25W           |  |

## ADDITIONAL INFORMATION

Self-limiting heating cables are built up with a temperature-dependent resistance element between two parallel copper conductors. When the SBG heating cable is connected to the mains voltage, the current will pass through the temperature-dependent resistance element, which is heated. When the element heats up, the resistance value rises. As a result, power consumption and heat fall again. This is what we call a self-limiting effect. This regulation of the power takes place anywhere on the cable and is adapted to the current ambient temperature.

Self-regulating heating cables have a high starting current depending on length and temperature. Fuses with C-characteristics must therefore always be used. In the Nordic climate, insulation will not be sufficient for full frost protection of pipes. Tough weather conditions with wind and cold can lead to frozen water pipes, fire pipes, sprinkler systems, etc.

Special lengths with attached cold lead can be made to order.  
The cable can be cut to the desired length.

## MAINTENANCE

The product is maintenance-free, but it must always be installed in compliance with the manual. The product should be checked and tested annually.

## RETURN AND RECYCLING

The product must be recycled as electric waste.

## DISCLAIMER

Prerequisites:

- 230VAC nominal voltage.
- Delayed circuit breakers with (C-type) max load 80%.
- Max 10% voltage drop on bus conductors.

The self-limiting heating cable can be cut to the desired length.

We develop and design our products according in accordance with our strict quality requirements (ISO 9001) and environmental requirements (ISO 14001).

All electrical installations must be carried out by an authorized electrical installer. The product must be installed in accordance with our installers manual and national building codes. Any wrongful installation, misuse, damage of the product, is not covered under warranty.

Updated documentation is available at [www.thermo-floor.no](http://www.thermo-floor.no) and/or [documents.thermo-floor.no](http://documents.thermo-floor.no)  
Thermo-Floor AS can not be held liable for any type of errors or omissions in our product information.  
Product specifications may change without further notice.



Sikring, maks kabellengde / Fuse, max cable length

**TF SBG-T**  
TF SBG-T

| TEMPERATUR VED TILKOBLING (°C)<br>TEMPERATURE AT CONNECTION (°C) | NOMINELT BRYTERNIVÅ (A)<br>NOMINALLY BRIDGE LEVEL (A) | MAKS. KABELLENGDE (m) VED 230VAC<br>MAX CABLE LENGTH (m) AT 230VAC |                |
|--|---|--|----------------|
|  |   | TF SBG-T 15W/M   | TF SBG-T 25W/M |
| 10°C   | 16A   | 106m   | 78m            |
|  | 20A   | 128m   | 104m           |
| 0°C  | 16A   | 90m  | 70m            |
|  | 20A   | 108m   | 92m            |
| -10°C  | 16A   | 75m  | 65m            |
|  | 20A   | 90m  | 80m            |
| -20°C  | 16A   | 61m  | 52m            |
|  | 20A   | 78m  | 74m            |
| -40°C  | 16A   | 54m  | 48m            |
|  | 20A   | 70m  | 62m            |

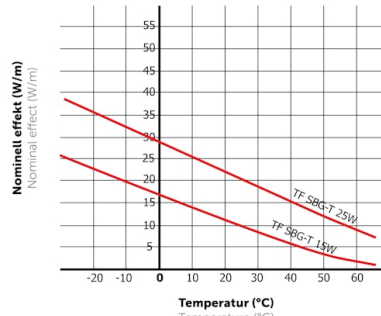
Kabelsnitt / Cable cross section

**TF SBG-T**  
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Effektkurve / Effect curve

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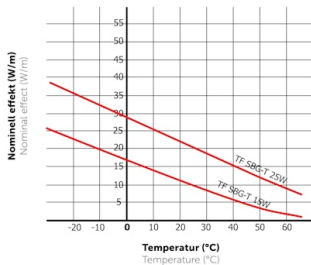
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Effektkurve / Effect curve

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**TF SBG-T Black can be ordered from thermo-floor.no**

All additional documentation are available on [documents.thermo-floor.no/10114-04](https://documents.thermo-floor.no/10114-04)

