



## TF SBG-SW RED

Self-limiting heating cable - frost protection drainage and sewage systems

TF SBG-SW is a self-limiting heating cable for use as frost protection for drainage and sewage systems.

The heating cable has a thicker outer sheath than most other self-limiting cables and can therefore withstand being in a "tougher" environment.

TF SBG-SW is ordered by the meter. Maximum length is 89 meters on a 20A course at -10 ° C. A thermostat must always be used to regulate the cable.

### PRODUCT FEATURES

- Frost protection
- Drainage pipes, gutters, drainage pipes, sinks for water and drains

### 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                        | Braided, tinned copper wires |
| Bus conductor                    | Nickel Coated Copper Wire    |
| Max temperature without load     | 65°C                         |
| Max temperature with load        | 65°C                         |
| Min bend radius (mm)             | 40mm                         |
| Weight per meter (gram)          | 122g                         |
| Min/max installation temperature | -30 to 40°C                  |
| Colour                           | Red                          |
| Outer sleeve material            | Fluoropolymer                |
| IP Code                          | IPX7                         |
| Certification                    | Reach, RoHS                  |
| EN Standards                     | CE, EN 60079, EN 60529       |
| Warranty Norway                  | 5 years                      |
| Warranty international           | 2 years                      |
| Product height/diameter          | 6.1mm                        |
| Product Width                    | 11.2mm                       |
| Product length                   | 1000mm                       |
| Customs number                   | 85444200                     |



## Product Overview

| Art no.   | Product                                 | Effect per m. |  |
|-----------|---|---------------|--|
| 10 113 90 | TF SBG-SW Red 10W/m                     | 10W           |  |
| 10 113 91 | TF SBG-SW 10W/m 3,5m 35W Red <b>EOL</b> | 10W           |  |
| 10 113 96 | TF SBG-SW Red 25W/m                     | 25W           |  |
| 10 113 97 | TF SBG-SW 25W/m 3,0m 75W Red <b>EOL</b> | 25W           |  |

## ADDITIONAL INFORMATION

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, sprinkler systems etc.

Self-limiting heating cables are built up with a temperature-dependent resistance element between two parallel copper conductors. When the self-limiting 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-limiting heating cables have a high starting current depending on length and temperature. Fuses with C-characteristics must therefore always be used.

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)

Heatit Controls AS can not be held liable for any type of errors or omissions in our product information.

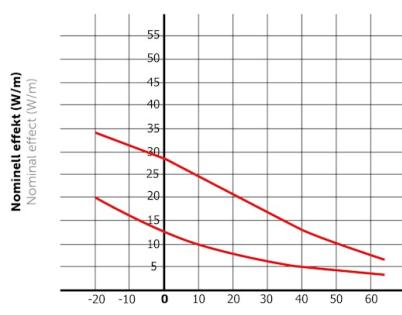
Product specifications may change without further notice.



## Effektkurve / Effect curve

## TF SBG-SW Rød

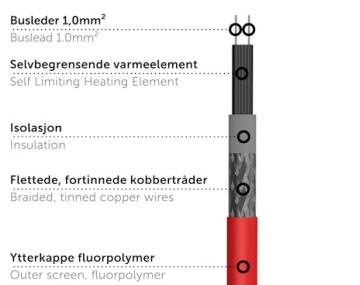
TF SBG-SW Red



Kabelsnitt / Cable cross section

## TF SBG-SW Rod

TF SBG-SW Red



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Sikring, maks kabellengde / Fuse, max cable length

## TF SBG-SW Rød

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## Sikring, maks kabellengde / Fuse, max cable length

## TF SBG-SW Rød

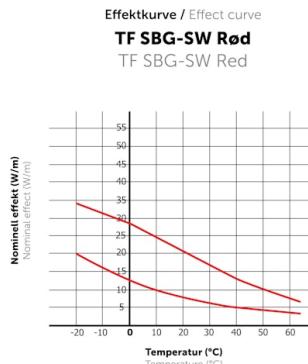
TF SBG-SW Red

| TEMPERATUR VED<br>TILKOBLING (°C)<br>TEMPERATURE AT<br>CONNECTION (°C) | NOMINELL<br>BRYTERNIVÅ (A)<br>NOMINAL<br>BRIDGE LEVEL (A) | MAKS. KABELLENGDE (m) VED 230VAC<br>MAX. CABLE LENGTH (m) AT 230VAC |               |
|--|---|---|---------------|
|  |   | TF SBG-SW 10W   | TF SBG-SW 25W |
| 10°C   | 16A   | 160m  | 98m           |
|  | 20A   | 180m  | 105m          |
| 0°C  | 16A   | 135m  | 88m           |
|  | 20A   | 160m  | 97m           |
| -10°C  | 16A   | 113m  | 74m           |
|  | 20A   | 135m  | 89m           |
| -20°C  | 16A   | 94m   | 64m           |
|  | 20A   | 110m  | 78m           |
| -40°C  | 16A   | 78m   | —             |
|  | 20A   | 95m   | —             |

## Effektkurve / Effect curve

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**TF SBG-SW Red can be ordered from [thermo-floor.no](http://thermo-floor.no)**All additional documentation are available on [documents.heatit.no/10113-07](http://documents.heatit.no/10113-07)