

TF SBG-H RED

Self limiting heating cable for use in environments with high temperatures 200°C

TF SBG-H is a self-regulating heating cable developed for use in high-temperature environments.

The heating cable is suitable for frost protection, but can also be used to maintain a stable temperature on pipes, taps and vessels. The cable can maintain temperatures up to 130 °C. The product has a wide range of applications, but is mainly used in the chemical and petrochemical industries.

TF SBG-H is available in several power outputs and has a fluoropolymer outer jacket, making it well suited for use in environments with aggressive chemicals, oils, petrol and diesel. The product is UV-resistant.

The heating cable is approved for use in explosive atmospheres and can be used in environments with exposure temperatures up to 230 °C.

PRODUCT FEATURES

• TF SBG-H combines self-regulating technology, high temperature resistance and a chemical-resistant outer jacket. The cable is developed for frost protection and temperature maintenance in demanding industrial environments, including explosive atmospheres.

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	230°C
Max temperature with load	130°C
Min bend radius (mm)	25mm
Weight per meter (gram)	118g
Ambient temperature range in use	-50 to 130°C
Ambient temperature range in storage (°C)	-20 to 50°C
Min/max installation temperature	-45 to 50°C
Min. and max ambient humidity (RH%)	10 to 80%
Colour	Red
Outer sleeve material	Fluorpolymer
IP Code	IPX7
Certification	Reach, RoHS
EN Standards	CE, EN 60079, EN 60529
Warranty in Norway	5 years
Warranty international	2 years
Product length	1000mm
Product width	11mm
Product height-/depth	5mm
Customs number	85459000

Product Overview

Art no.	Product	Effect per m.
10 113 31	TF SBG-H Red 10W/m	10W
10 113 32	TF SBG-H Red 20W/m	20W
10 113 33	TF SBG-H Red 30W/m	30W
10 113 34	TF SBG-H Red 45W/m	45W
10 113 36	TF SBG-H Red 60W/m	60W

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.

VARMEKABELDATA

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Max temperature with load	130°C	Min bend radius	25mm
Weight per meter	118g		

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.heatit.com or documents.heatit.com
Heatit Controls AS can not be held liable for any type of errors or omittances in our product information.
Product specifications may change without further notice.

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Designed in Norway
RoHS Compliant
REACH Compliance
CE

Kabelsnitt / Cable cross section

TF SBG-H Rød

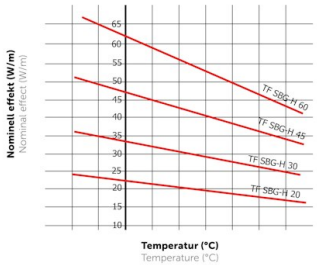
TF SBG-H Red



Effektkurve / Effect curve

TF SBG-H Rød

TF SBG-H Red



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Sikring, maks kabellengde / Fuse, max cable length

TF SBG-H Rød

TF SBG-H Red

TEMPERATUR VED TILKOBLING (°C) TEMPERATURE AT CONNECTION (°C)	NOMINELT BRYTERNIVÅ (A) NOMINALLY BRIDGE LEVEL (A)	MAKS. KABELLENGDE (m) VED 230VAC MAX CABLE LENGTH (m) AT 230VAC				
		TF SBG-H 10W	TF SBG-H 20W	TF SBG-H 30W	TF SBG-H 45W	TF SBG-H 60W
10°C	16A	193m	122m	82m	55m	41m
	20A	193m	136m	102m	68m	51m
	25A	193m	136m	111m	85m	64m
	32A	193m	136m	111m	91m	79m
0°C	16A	189m	116m	77m	52m	39m
	20A	189m	132m	97m	65m	49m
	25A	189m	132m	108m	81m	61m
	32A	189m	132m	108m	89m	77m
-10°C	16A	184m	110m	73m	50m	37m
	20A	184m	129m	92m	62m	46m
	25A	184m	129m	106m	77m	58m
	32A	184m	129m	106m	87m	70m
-20°C	16A	180m	104m	70m	47m	36m
	20A	180m	126m	87m	59m	44m
	25A	180m	126m	103m	74m	56m
	32A	180m	126m	103m	85m	67m

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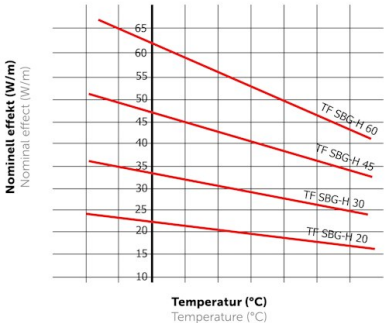
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Effektkurve / Effect curve

TF SBG-H Rød

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Sikring, maks kabellengde / Fuse, max cable length

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0°C	16A	189m	116m	77m	52m	39m
	20A	189m	132m	97m	65m	49m
	25A	189m	132m	108m	81m	61m
	32A	189m	132m	108m	89m	77m
-10°C	16A	184m	110m	73m	50m	37m
	20A	184m	129m	92m	62m	46m
	25A	184m	129m	106m	77m	58m
	32A	184m	129m	106m	87m	70m
-20°C	16A	180m	104m	70m	47m	36m
	20A	180m	126m	87m	59m	44m
	25A	180m	126m	103m	74m	56m
	32A	180m	126m	103m	85m	67m

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