

## FEATURES

- The heat output is automatically adjusted according to the ambient temperature (self-limiting)
- Self-limiting characteristic prevents overheating
- Double insulation for high reliability
- Can be cut to required length
- Easy installation
- High flexibility



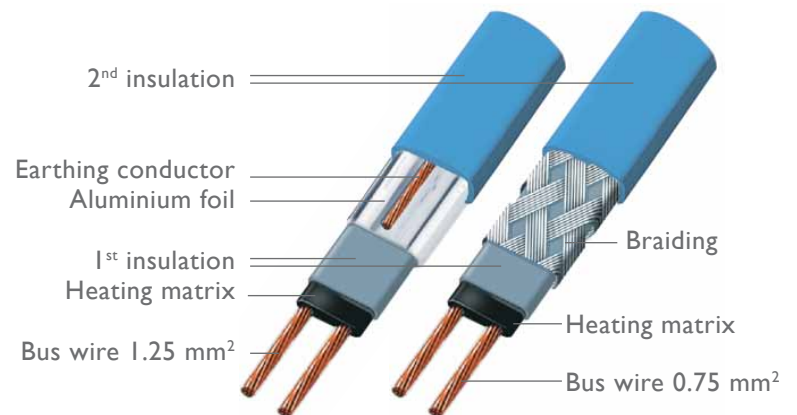
## DESCRIPTION

The HTP self-limiting heating tape is used for electrical heat tracing for frost protection. The temperature dependent resistive element between the parallel bus wires adjusts the heat output of the heating tape according to the ambient temperature. Typical applications for the HTP heating tape are roof and gutter heating. The HTP heating tape can be cut to any required length at site. This gives you the possibility to match exactly the length of a drainpipe or gutter. The outer protective jacket of the HTP heating tape is made of an ultraviolet resistant high quality material to ensure a reliable and safe use. The tinned copper braid ensures the accordance with the actual electrical requirements and international standards. The additional polyolefin electrical insulation jacket (double insulated) assures the moisture protection due to the inner insulation of the matrix.

The self-limiting performance increases safety and reliability of the HTP heating tape. The HTP heating tape does not get overheated even if the tapes overlap. With the parallel construction the installation is simple, easy and quick.

## CABLE DESIGN

Self-limiting heating tape HTP-S2 and HTP-B2



## TECHNICAL DATA

Rated voltage	230 VAC
Maximum operation temperature (switched on)	65 °C
Maximum operation temperature (switched off)	85 °C
Minimum operation temperature	- 45 °C
Minimum storage temperature	- 45 °C
Minimum installation temperature	- 30 °C
Minimum bending radius	25 mm
Dimensions for HTP (-S2; -B2)	
Polyolefin outer sheath	14,0×5,2 mm
Fluoropolymer outer sheath	15,4×5,3 mm

## PRODUCT REFERENCES

### Heating circuit length\*

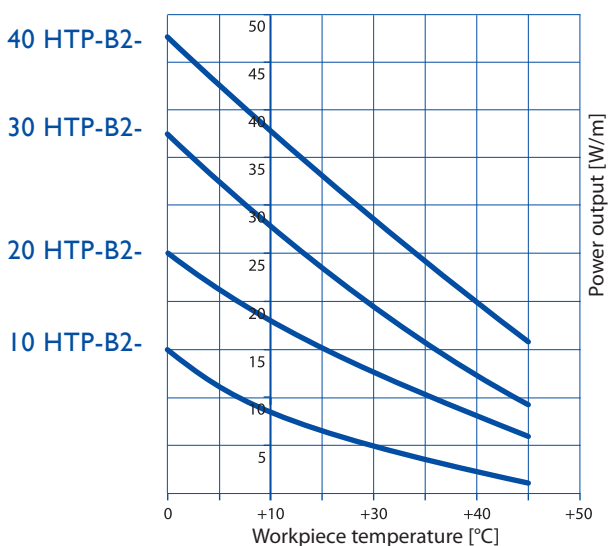
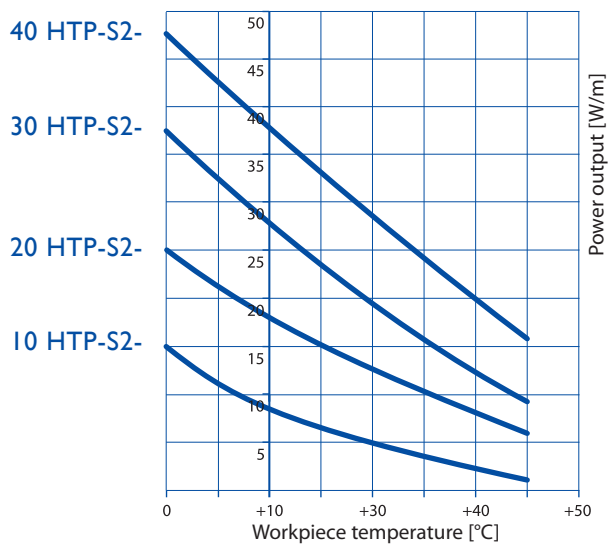
Type	Start-up temperature, C	Heating circuit length		
		16A	20A	32A
10 HTP-S2-__	-20	155	190	-
	0	215	-	-
	+10	215	-	-
20 HTP-S2-__	-20	105	130	170
	0	150	170	-
	+10	170	-	-
30 HTP-S2-__	-20	75	90	140
	0	97	120	-
	+10	115	140	-
40 HTP-S2-__	-20	55	70	110
	0	70	90	120
	+10	80	100	-

\* Circuit breaker Type C according to BS EN 60 898,1991.

### Heating circuit length\*

Type	Start-up temperature, C	Heating circuit length		
		16A	20A	32A
10 HTP-B2-__	-20	155	190	-
	0	215	-	-
	+10	215	-	-
20 HTP-B2-__	-20	105	130	170
	0	150	170	-
	+10	170	-	-
30 HTP-B2-__	-20	75	90	140
	0	97	120	-
	+10	115	140	-
40 HTP-B2-__	-20	55	70	110
	0	70	90	120
	+10	80	100	-

## TEMPERATURE RATINGS



## INSTALLATION

Applicable norms, rules and data sheets as well as instructions and manuals are to be followed!

The installation of the HTP tape is simple and quick. All components for termination, splicing and power connection are available in convenient kits.

## TYPES

HTP-x2-BT	Polyolefin outer sheet
HTP-x2-BP	Flouropolymer outer sheet

## APPROVAL DETAILS

The compliance with all necessary requirements is approved by appropriate Certificates:



Certificates according to other national standards upon request.

# HTP-S2 SELF-LIMITING HEATING TAPE

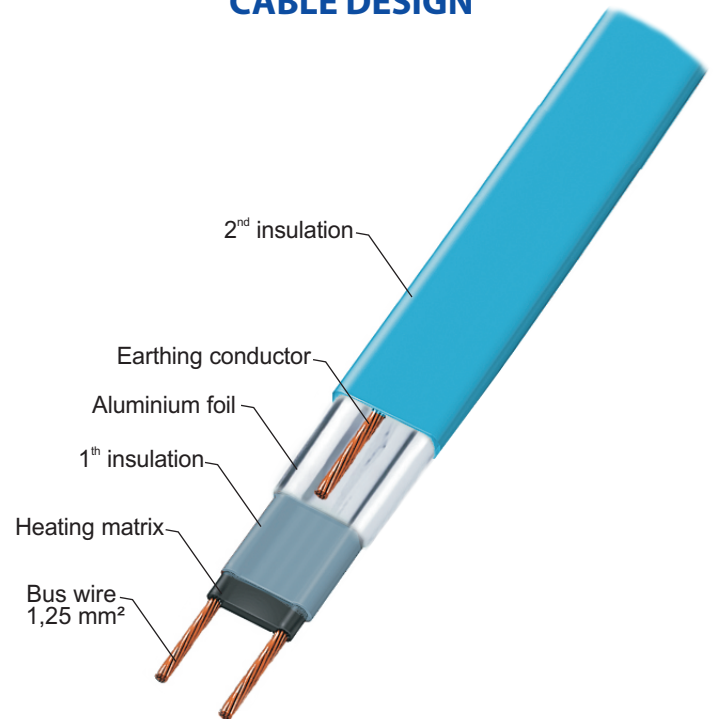
## TECHNICAL DATA

Rated Voltage	230	VAC
Maximum rated temperature switched on	+65	°C
Maximum exposure temperature switched off	+85	°C
Minimal storage temperature	-45	°C
Minimal installation temperature	-30	°C
Minimal operation temperature	-45	°C
Minimal bending radius	25	mm
Dimension		
Polyolefin outer jacket	14.00x5.20	mm
Fluoropolymer outer jacket	15.40x5.30	mm
Weight	66	kg/km
Delivery standard	500m	Coil

## TYPES

10 HTP-S2-BT	Polyolefin outer jacket
20 HTP-S2-BT	Polyolefin outer jacket
30 HTP-S2-BT	Polyolefin outer jacket
40 HTP-S2-BT	Polyolefin outer jacket
10 HTP-S2-BP	Fluoropolymer outer jacket
20 HTP-S2-BP	Fluoropolymer outer jacket
30 HTP-S2-BP	Fluoropolymer outer jacket
40 HTP-S2-BP	Fluoropolymer outer jacket

## CABLE DESIGN

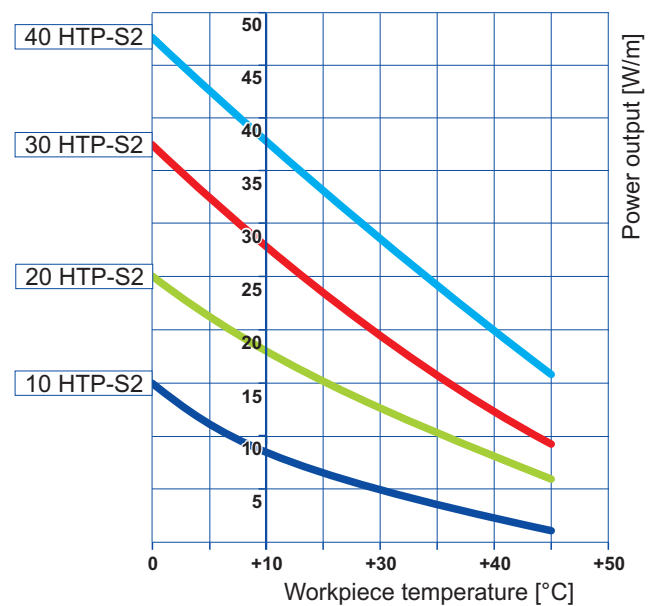


## HEATING CIRCUIT LENGTH\*

TYPE	START UP TEMPERATURE	HEATING CIRCUIT LENGTH		
		16A	20A	32A
10 HTP-S2-__	-20 °C	155	190	-
	0 °C	215	-	-
	+10 °C	215	-	-
20 HTP-S2-__	-20 °C	105	130	170
	0 °C	150	170	-
	+10 °C	170	-	-
30 HTP-S2-__	-20 °C	75	90	140
	0 °C	97	120	-
	+10 °C	115	140	-
40 HTP-S2-__	-20 °C	55	70	110
	0 °C	70	90	120
	+10 °C	80	100	-

\* Circuit breaker type C according to BS EN 60898, 1991

## POWER OUTPUT CURVE



## APPROVALS



## PRODUCT REFERENCES

### Heating circuit length\*

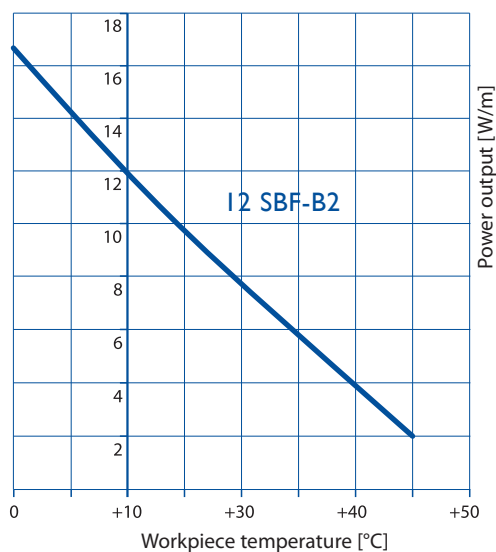
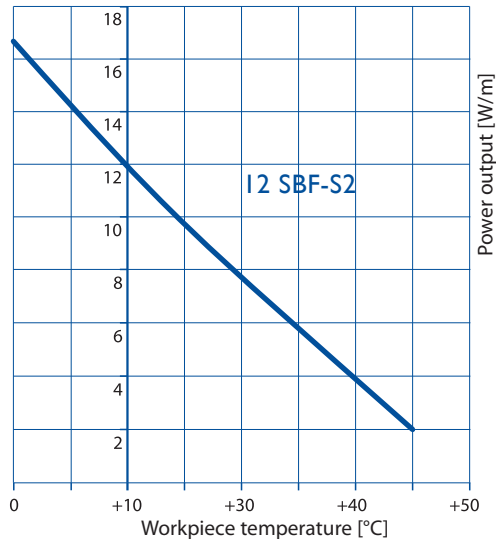
Type	Start-up temperature, C	Heating circuit length		
		16A	20A	32A
12 SBF-S2-BT	-20	100	-	-
	0	100	-	-
	+10	100	-	-
12 SBF-S2-BP	-20	100	-	-
	0	100	-	-
	+10	100	-	-

\* Circuit breaker Type C according to BS EN 60 898,1991.

### Heating circuit length\*

Type	Start-up temperature, C	Heating circuit length		
		16A	20A	32A
12 SBF-B2-BT	-20	100	-	-
	0	100	-	-
	+10	100	-	-
12 SBF-B2-BP	-20	100	-	-
	0	100	-	-
	+10	100	-	-

## TEMPERATURE RATINGS



## INSTALLATION

Applicable norms, rules and data sheets as well as instructions and manuals are to be followed!

The installation of the SBF tape is simple and quick. All components for termination, splicing and power connection are available in convenient kits.

For detailed installation instructions please use the "Roof de-icing system TEPLSKAT Installation manual" INST-1017 and "GT 200E electronic temperature controller for roof and gutter de-icing systems Operating Manual" INST-1009.

## TYPES

12 SBF-x2-BT	Polyolefin outer sheet
12 SBF-x2-BP	Flouropolymer outer sheet

## APPROVAL DETAILS

The compliance with all necessary requirements is approved by appropriate Certificates:



Certificates according to other national standards upon request.

### FEATURES

- Heat output is automatically adjusted in response to pipe temperature changes
- Can be cut to required length without any property changes affected by this
- Protected against overheating or burning out even in case of overlapping
- Full range of control facilities and accessories
- Approved to be used in non-hazardous, hazardous and corrosive environments
- Ideal solution for heating equipment and small diameter pipes
- Operating voltage 230VAC (120VAC upon request)



### DESCRIPTION

The SBF self-limiting heating tape is used for electrical heat tracing for frost protection. The temperature dependant resistive element between the parallel bus wires adjusts the heat output of the heating tape according to the ambient temperature. Typical applications for the SBF heating tape are roof and gutter heating. It can be cut to any required length at site, and the exact pipe length can be achieved without any complicated design alterations.

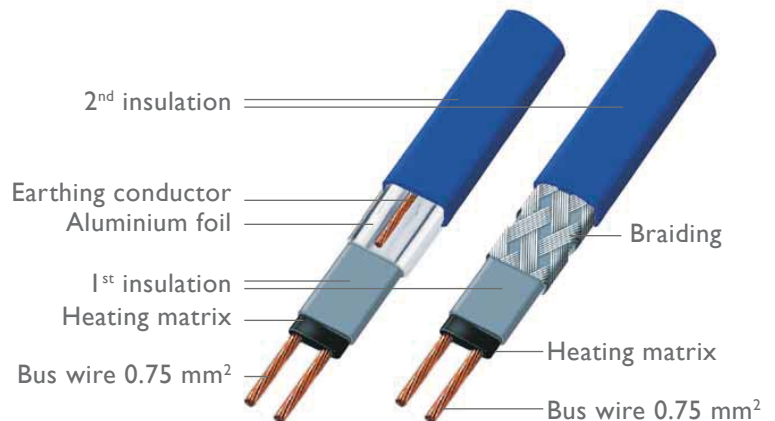
SBF is approved for the use in safe and explosion hazardous zones according to worldwide standards.

The self-limiting performance increases the tape's safety and reliability. SBF does not get overheated or burned even in case its parts are overlapping. Its power output is automatically adjusted in response to temperature changes.

The installation of the SBF tape is easy, quick and requires no special skills or tools. All components for termination, splicing and power connection are available in convenient kits.

### CABLE DESIGN

Self-limiting heating tape SBF-S2 and SBF-B2



### TECHNICAL DATA

Rated voltage	230 VAC
Maximum operation temperature (switched on)	65 °C
Maximum operation temperature (switched off)	85 °C
Minimum operation temperature	- 45 °C
Minimum storage temperature	- 45 °C
Minimum installation temperature	- 30 °C
Minimum bending radius	25 mm
Dimensions for SBF-S2	9,0×5,5 mm
Dimensions for SBF-B2	
Polyolefin outer sheath	8,5×5,7 mm
Fluoropolymer outer sheath	5,2×8,0 mm