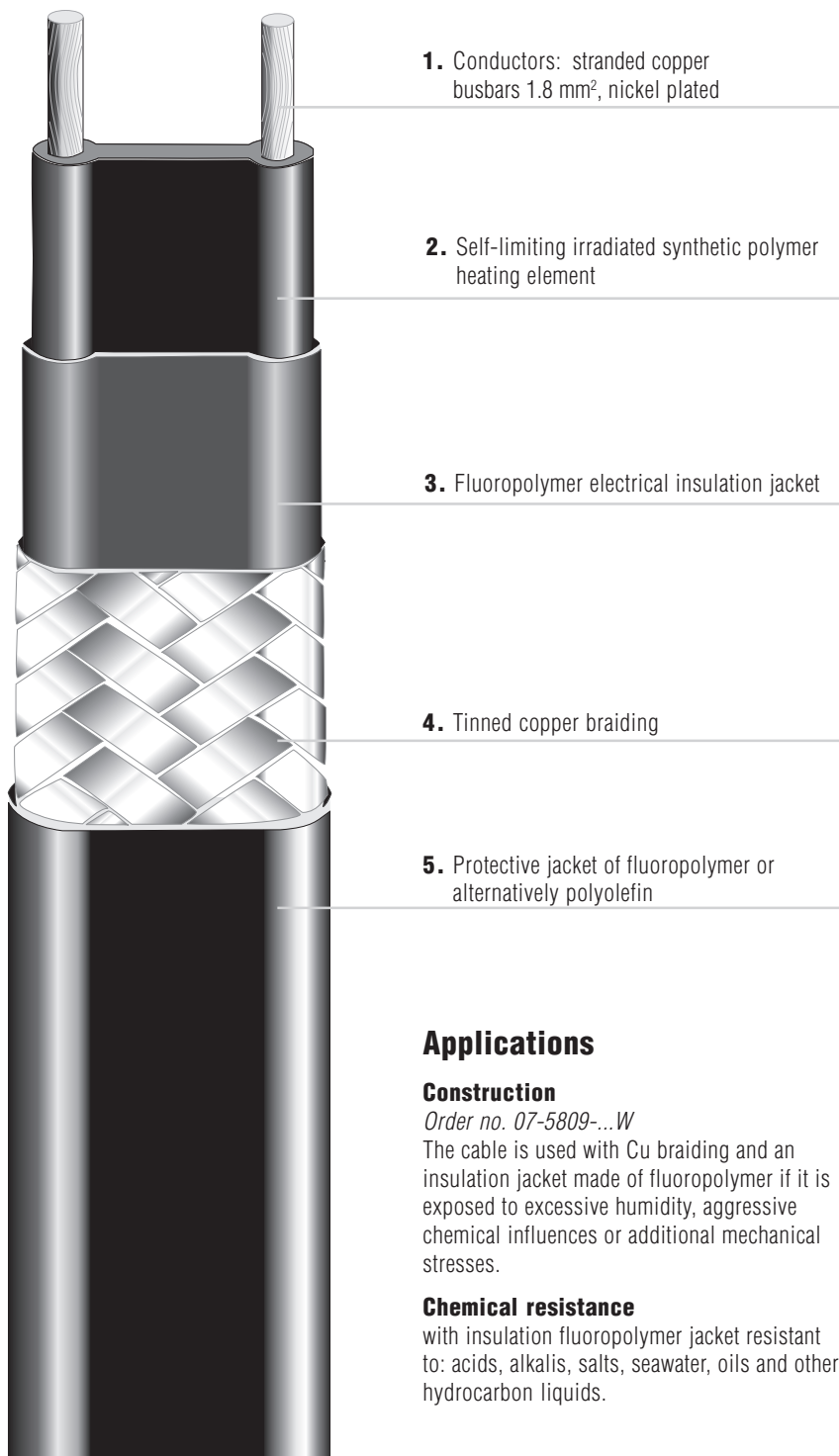


## Self-limiting parallel heating cable HTSB



1. Conductors: stranded copper busbars 1.8 mm<sup>2</sup>, nickel plated

2. Self-limiting irradiated synthetic polymer heating element

3. Fluoropolymer electrical insulation jacket

4. Tinned copper braiding

5. Protective jacket of fluoropolymer or alternatively polyolefin

### Applications

#### Construction

Order no. 07-5809-...W

The cable is used with Cu braiding and an insulation jacket made of fluoropolymer if it is exposed to excessive humidity, aggressive chemical influences or additional mechanical stresses.

#### Chemical resistance

with insulation fluoropolymer jacket resistant to: acids, alkalis, salts, seawater, oils and other hydrocarbon liquids.

### Features

- high level of steam cleaning is possible
- Self-limiting
- Can be used in explosive atmospheres without temperature limiter (subject to 'T' class)
- Can be cut to length at random thanks to its parallel circuit configuration
- Simple installation thanks to its high flexibility
- Easy on-site cutting and terminating
- Corrosion-proof and resistant to effects of chemicals thanks to its protective outer sheath

### Description

A temperature-dependent resistive element between the parallel copper conductors regulates and limits the heating cable's heat output. This power setting occurs automatically at every point of the heating cable depending on the ambient temperature prevailing there. If the ambient temperature increases, the cable's heating output is reduced. This self-limitation prevents the heating cables overheating even where cables overlap.

There is no need for a temperature limiter. The parallel supply of power allows the heating cable to be cut to any length. This makes planning and installation easier. The heating cable is cut from the roll on the construction site according to the local conditions. If the cable gets damaged, only the part concerned has to be replaced, not the entire heating cable.

BARTEC HTSB is available in various power ratings and versions.

### ➤ Technical data

#### Available outputs

with 230 V 16, 49, 65, 98 W/m  
with 120 V 16, 49, 65, 98 W/m

#### Supply voltage

AC 208 V up to AC 254 V  
AC 110 V up to AC 120 V

#### Permissible ambient temperature

Cut-in heating cable +190 °C  
intermittently turned off +232 °C

#### Min. Installationstemperatur

-40 °C

#### Dimension

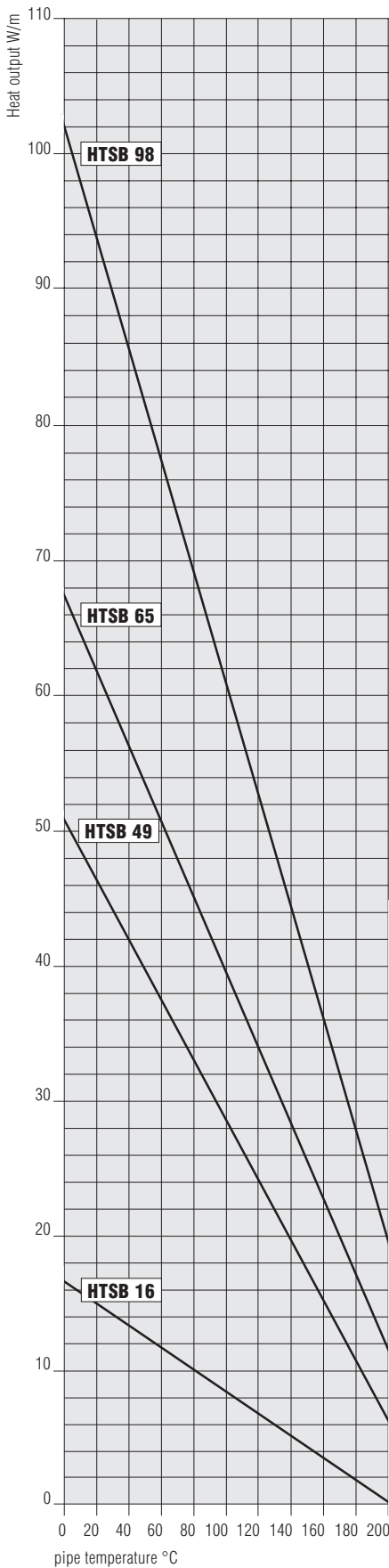
12.3 mm x 5.0 mm

#### Minimum bend radius

25 mm



**HTSB-characteristics**



**Max. length of heating circuit (for automatic circuit-breakers with C characteristic) 230 V**

Type of heating cable	HTSB 16	HTSB 49	HTSB 65	HTSB 98
16 A, cut-in temperature +10 °C	109 m	50 m	36 m	24 m
16 A, cut-in temperature -20 °C	98 m	44 m	34 m	22 m
16 A, cut-in temperature -40 °C	88 m	37 m	33 m	22 m
25 A, cut-in temperature +10 °C	158 m	76 m	55 m	35 m
25 A, cut-in temperature -20 °C	152 m	76 m	53 m	35 m
25 A, cut-in temperature -40 °C	137 m	58 m	51 m	35 m
32 A, cut-in temperature +10 °C	163 m	84 m	72 m	44 m
32 A, cut-in temperature -20 °C	163 m	84 m	69 m	44 m
32 A, cut-in temperature -40 °C	163 m	75 m	66 m	44 m

**Max. length of heating circuit (for automatic circuit-breakers with C characteristic) 120 V**

Type of heating cable	HTSB 16	HTSB 49	HTSB 65	HTSB 98
16 A, cut-in temperature +10 °C	59 m	26 m	20 m	13 m
16 A, cut-in temperature -20 °C	54 m	23 m	18 m	11 m
16 A, cut-in temperature -40 °C	49 m	20 m	16 m	11 m
25 A, cut-in temperature +10 °C	92 m	40 m	34 m	19 m
25 A, cut-in temperature -20 °C	84 m	34 m	27 m	17 m
25 A, cut-in temperature -40 °C	76 m	31 m	25 m	17 m
32 A, cut-in temperature +10 °C	109 m	44 m	39 m	23 m
32 A, cut-in temperature -20 °C	107 m	44 m	36 m	23 m
32 A, cut-in temperature -40 °C	98 m	39 m	33 m	23 m

**Selection chart heating cable HTSB 120 V**

Type	Order no.
HTSB 16	07-5809-116W
HTSB 49	07-5809-149W
HTSB 65	07-5809-165W
HTSB 98	07-5809-198W

**Selection chart heating cable HTSB 230 V**

Type	Order no.
HTSB 16	07-5809-216W
HTSB 49	07-5809-249W
HTSB 65	07-5809-265W
HTSB 98	07-5809-298W