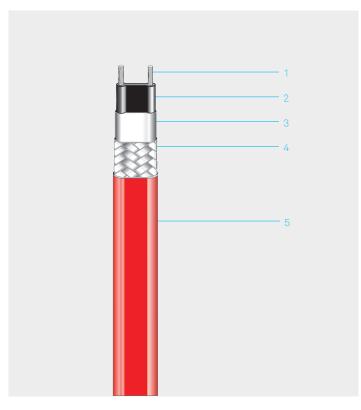


Self-regulating heating cable HSB

High temperature, self-regulating parallel heating cable



| 1 | Conductors: stranded copper wire, 1.25 mm², nickel-plated |
|---|---|
| 2 | Self-regulating polymer heating element |
| 3 | Fluoropolymer electrical insulation jacket |
| 4 | Nickel plated copper braiding |
| 5 | Fluoropolymer protective jacket |

- Can be cut to length at random thanks to its parallel current supply
- Resistant to chemical influences thanks to its protective Fluoropolymer protective jacket
- Simple installation thanks to its high flexibility

A temperature-dependant resistive element between two parallel copper conductors regulates and limits the heat output of the heating cable.

This output regulation is carried out automatically along the entire length of the heating cable according to the prevailing ambient temperature. If the ambient temperature rises, the power output of the cable is reduced. Thanks to the parallel design the heating cable can be cut to any required length. This feature considerably simplifies project planning and installation. The heating cable is cut and terminated directly on the construction site according to the circumstances. If the cable will be damaged, it is not necessary to replace the

whole cable. BARTEC HSB is available with different power outputs. The heating system must be designed to ensure that the maximum exposure temperature of +120 °C will not be exceeded when it is energized.

Areas of application

The HSB heating cable is suitable for electric trace heating in the industrial area and can be exposed to a temperature of up to 180 °C (power off). With the fluoropolymer-protective jacket, the heating cable is resistant to oil, greases and most chemicals. For questions regarding the chemical resistance please contact your BARTEC sales representative.

Explosion protection

| Marking ATEX | | | |
|---------------|--|--|--|
| Certification | DEKRA 17ATEX0007 U IECEx DEK 17.0004U | | |

Other approvals and certificates see bartec.com

Technical data

| Nominal voltage | AC 208 V bis 277 V, 120 V on request | | |
|--|--|--|--|
| Max. continuous operating temperature, energized | +120°C | | |
| Max. continuous exposure temperature, de-energized | +180°C | | |
| Min. installation temperature | -60°C | | |
| Min. start-up temperature | -60°C | | |
| Temperature class | T4: 3HSB2, 5HSB2 T3: 6HSB2, 8HSB2, 10HSB2, 15HSB2, 20HSB2 | | |
| Max. braid resistance | <18,2 Ω/km | | |
| Dimensions with braiding and jacket | 10,2 mm x 4,8 mm | | |
| Min. bending radius | 25mm @-60°C, 10mm @-10°C | | |
| | | | |

Power output at +10 °C and 230 V

| 3HSB2 | 10 W/m |
|--------|--------|
| 5HSB2 | 15 W/m |
| 10HSB2 | 30 W/m |
| 15HSB2 | 45 W/m |
| 20HSB2 | 60 W/m |

Сайт: https://samoreg.ru | Телефон: +7 (343) 237-25-22 | Почта: 1@2372522.ru

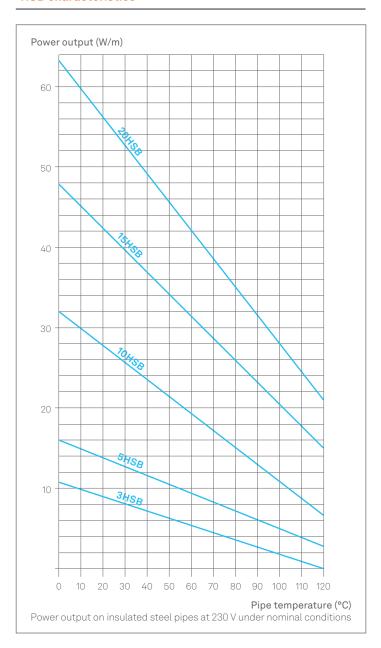


Max. length of heating circuit at 230 V for automatic circuit-breakers with C characteristic

| Circuit breaker size | Start-up temperature | 3HSB2 | 5HSB2 | 10HSB2 | 15HSB2 | 20HSB2 |
|----------------------|----------------------|-------|-------|--------|--------|--------|
| 16A | + 10 °C | 230 m | 164 m | 92 m | 67 m | 52 m |
| | 0 °C | 217 m | 155 m | 87 m | 64 m | 49 m |
| | - 20 °C | 195 m | 141 m | 79 m | 58 m | 45 m |
| 20A | + 10 °C | 231 m | 188 m | 115 m | 82 m | 65 m |
| | 0 °C | 231 m | 188 m | 109 m | 79 m | 61 m |
| | - 20 °C | 231 m | 177 m | 98 m | 72 m | 56 m |
| 25A | +10 °C | 231 m | 188 m | 133 m | 82 m | 75 m |
| | 0 °C | 231 m | 188 m | 133 m | 82 m | 75 m |
| | - 20 °C | 231 m | 188 m | 133 m | 82 m | 70 m |
| 32A | +10 °C | 231 m | 188 m | 133 m | 82 m | 75 m |
| | 0 °C | 231 m | 188 m | 133 m | 82 m | 75 m |
| | - 20 °C | 231 m | 188 m | 133 m | 82 m | 75 m |

These circuit lengths may be exceeded dependat on specific design parameters.

HSB characteristics



Ordering information

| Туре | Heating output | Order no. |
|-----------|----------------|--------------|
| 3HSB2-CT | 10 W/m | 07-5855-710F |
| 5HSB2-CT | 15 W/m | 07-5855-715F |
| 10HSB2-CT | 30 W/m | 07-5855-730F |
| 15HSB2-CT | 45 W/m | 07-5855-745F |
| 20HSB2-CT | 60 W/m | 07-5855-760F |
| | | |

Сайт: https://samoreg.ru | Телефон: +7 (343) 237-25-22 | Почта: 1@2372522.ru