

# SILICONE CABLE

Silicone cables are primarily used for protecting freezing compartment frames and vertical lifting doors from frost, as well as tracing of pipes and various tasks requiring high temperatures. The silicone cable is suitable for use in areas with both low and high ambient temperatures.

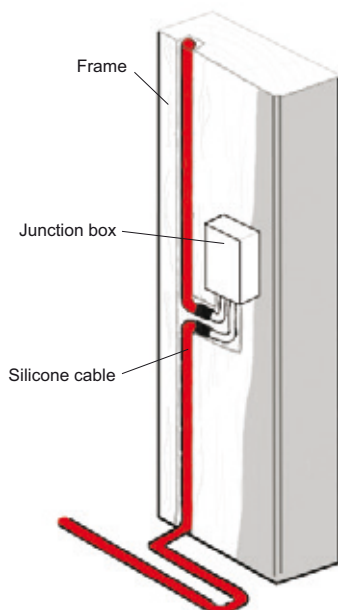
The maximum tolerated surface temperature for silicone cables is 180°C and the minimum ambient temperature is -70°C.

Depending on the conditions the maximum output is 40W/m and/or maximum 13A in total. As an example: when tracing a pipe of plastic or when mounting in a plastic rail, the power must be limited to 10W/m.

## INSTALLATION

If the silicone cable is to be used for pipe tracing, it is recommended to insulate the pipe effectively, to reduce heat loss from the pipe. On installation, the full length of the cable must be affixed using alu tape. This ensures good contact with the pipe and prevents direct contact between cable and insulation. Silicone cables can generally be used for all types of piping, depending on the output.

### Silicone cable installed in freezing room frame



## CABLE TYPES

Silicone cables can be delivered in any length and will be produced specific to your project. The minimum bending diameter for silicone cables is 15mm. The cable must not come in direct contact with oil, animal fat or water. Please be aware, it is not possible to shorten the silicone cable without destroying the cable. Voltage, wattage, cable length, length of feed line and, if relevant, pipe length must be specified in order.

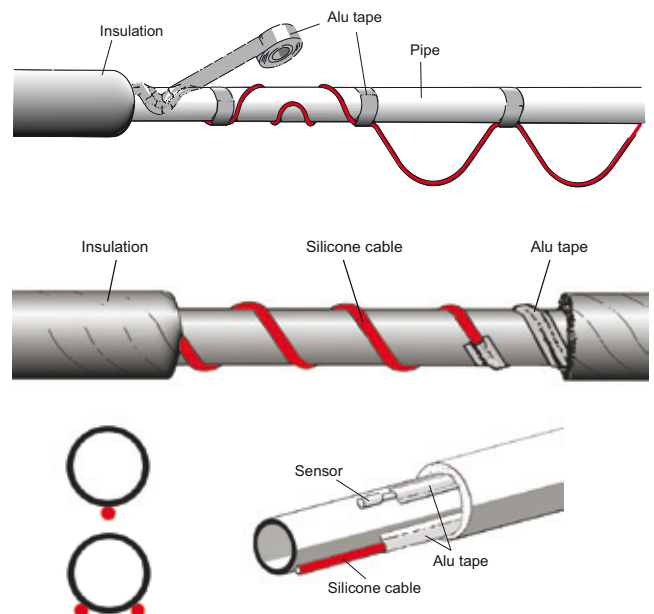
Silicone cables must be regulated by a thermostat (see more on page 2).

### The following types of silicone cables exist:

- Single conductor silicone cable with shield of tin-coated copper wire with connection at both ends
- Twin conductor silicone cable with shield of tin-coated copper wire with connection at one end

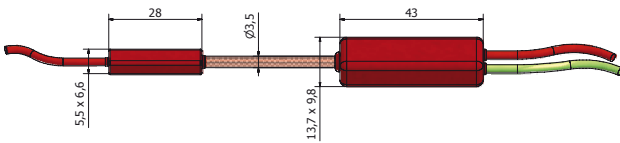
See the various terminals on the next page.

### Silicone cable mounted on pipe

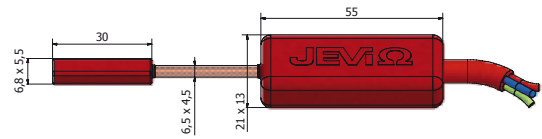




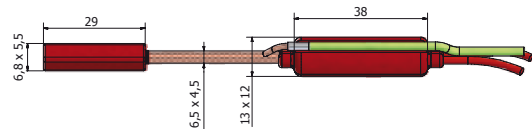
Single conductor silicone cable with 2 connectors.  
 Connection: 3, 1mm<sup>2</sup> simple conductors



Twin conductor silicone cable with B terminal  
 Connection: screen cable 3 x 1mm<sup>2</sup>



Twin conductor silicone cable with D terminal  
 Connection: 3, 1mm<sup>2</sup> simple conductors



## ELECTRONIC THERMOSTATS

| Item no. | Temperature range: | Description   |
|----------|--------------------|---|
| 19113554 | -10°C to +10°C     | Electronic thermostat 330 for DIN rail mounting, 230V, incl. 2.5m NTC sensor                        |
| 19113562 | +5°C to +45°C      | Electronic thermostat 330 for DIN rail mounting, 230V, incl. 2.5m NTC sensor                        |
| 19113589 | +10°C to +110°C    | Electronic thermostat ETI for DIN rail mounting, 230V, incl. 2.5m NTC sensor, adjustable hysteresis |
| 19113596 | +60°C to +160°C    | Electronic thermostat 330 for DIN rail mounting, 230V, incl. 2.5m NTC sensor                        |
| 19116128 | -10°C to +50°C     | Electronic thermostat 610 in box, IP44 2-poled, 230V, incl. 2.5m NTC sensor                         |

## ACCESSORIES

| Item no. | Description  |
|----------|--|
| 19805076 | Alu tape on rolls, without liner. Width 50mm, length 50m |
| 19805357 | Alu tape on rolls with liner. Width 50mm, length 25m     |
| 86000080 | Building set for silicone cable                          |