

**CABLE TEMPERATURE  
RESISTANCE  
PROBE TYPE:**

# OK


**Description of the probe:**

Cable temperature resistance probe type OK is constructed out of connection cable and protection tube (tube's radius  $\varnothing p$  and length  $L_v$ ) in which temperature-sensitive sensor (Pt 100, Pt 1000, KTY, thermistor, etc.) is inserted. Sensor is melted with connection cable, which is inserted in protection tube of the probe. Probe's operating temperature interval depends on the insulation of the cable and the type of inserted sensor.

**Image and dimensions of the probe:**

**Sensor features:**

Sensors which can be implemented into the probe:

- Pt 100
  - tolerance class A\*
  - tolerance class B\*
  - three-wire implementation
- Pt1000
  - tolerance class B\*
  - two-wire implementation
- NTC 10K
- KTY 81
- Ni1000, 5000 ppm/K
- Ni1000, 6178 ppm/K

*(look at the ordering table)*

\* according to DIN EN 60751

**Operating conditions:**
**Temperature**

Probe's operating temperature interval depends on the type of cable's insulation:

| Cable insulation             | Ordering code | Temperature interval (°C) |
|------------------------------|---------------|---------------------------|
| PVC                          | P             | -20 / +105 °C             |
| Silicone                     | Si            | -50 / +180 °C             |
| Teflon                       | T             | -200 / +270 °C            |
| Fibre-glass with steel armor | SVo           | -50 / +400 °C             |

*(look at the ordering table)*

**External features of the probe:**

Protection tube is made out of AISI 403 (DIN 1.4024) steel.

Probe's length ( $L_v$ ) can be:

- 30 mm
- 40 mm
- 50 mm
- 80 mm
- 100 mm
- 150 mm

*(look at the ordering table)*

Probe's radius ( $p$ ) can be:

- 4 mm
- 5 mm
- 6 mm

*(look at the ordering table)*

Length of the connection cable ( $L_k$ ) can be freely chosen.



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