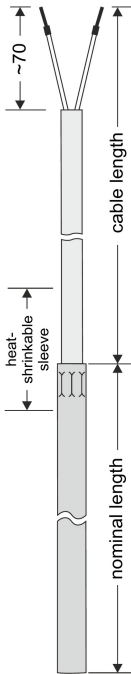


RESISTANCE THERMOMETER CABLE PROBE



- PT100 AND PT1000
- -200 ... +450 °C
- 2-, 3-, 4-WIRE
- UP TO 2000 MM LENGTH
- IP 65



KEY DATA

Property	Value	Property	Value
Sensing element	Pt100 or Pt1000, 1x or 2x	Operating range	-200 ... +450 °C
Circuit	2-, 3- or 4-wire	Sheath	1.4571 (316Ti)
Accuracy	class A to B1/10DIN	Ø sheath	4 · 5 · 6 mm
Nominal length	30 ... 70 mm, max. 2000 mm	Cable decodes	-5 ... +550 °C by type
Response	6x0.5 mm: t90 30.9 s	Product code	KW

Resistance thermometer as a cable probe with a rigid sheath and a fixed cable. The wire colours are given under CONNECTION. The operating range is set by the cable: PVC ends at 70 °C.



TECHNICAL DATA

SENSING ELEMENT

Sensor element	Pt100 · Pt1000 · 2× Pt100 · 2× Pt1000
Circuit	2-wire · 3-wire · 4-wire
Accuracy	class A · class B · B1/2DIN · B1/3DIN · B1/10DIN
Operating range sensor	-200 ... +450 °C
Insulator	none

SHEATH AND LENGTH

Material	1.4571 (316Ti)
Ø sheath	4 · 5 · 6 mm
Wall thickness	0.25 ... 1 mm
Connection	open ends 70 mm
Transition to cable	hexagonal crimp · option ring crimp
Strain relief	heat-shrink sleeve · option spring
Nominal length	30 · 46 · 50 · 70 mm
Maximum length	2000 mm
Option strain relief	spring or crimped transition

CONNECTING CABLE

Connecting cable	PVC-PVC · PTFE-silicone · PTFE-PTFE · PTFE-braided screen-PTFE · glass silk-glass silk-braided screen
Cable length	standard 2 m · option on request
Protection	IP 65 (up to 250 °C) (1)
Insulation resistance	test voltage 500 VDC

TEMPERATURE AND RESPONSE

Sensor	-200 ... +450 °C
Sheath 1.4571	up to 600 °C
Response 6×0.5 mm	t90 30.9 s · t50 12 s
Response 6×1 mm	t90 22.1 s · t50 7.6 s
Cable PVC	-5 ... +70 °C
Cable silicone	-45 ... +180 °C
Cable PTFE	-75 ... +205 °C
Cable glass silk	-60 ... +550 °C

(1) IP 65 does not apply to the braided-screen version.

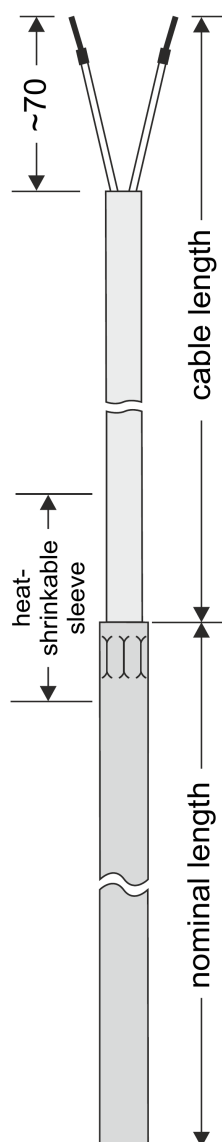
CONNECTION

Cable with open ends, 70 mm; the transition to the cable is a hexagonal crimp, optionally a ring crimp.

Wire colours to DIN 60751: 2-wire red · white · 3-wire red · red · white · 4-wire red · red · white · white.



DIMENSIONS



CONFORMITY

Accuracy classes	Class A to B1/10DIN
Type approval	None. The GL version is a product of its own — data sheet TCMD
Protection	IP 65 up to 250 °C, not for the braided-screen version

ORDER INFORMATION

Accessories

- Accessories: compression fitting and sheet metal flange.

ORDER KEY

Field	Value	Meaning
Product code	KW	stands at the beginning of every order code
Sensor element	0 ... 3	1× Pt100 · 1× Pt1000 · 2× Pt100 · 2× Pt1000
Type of sensor	0 ... 2	2-wire · 3-wire · 4-wire
Accuracy	0 ... 4	class A · class B · B1/2DIN · B1/3DIN · B1/10DIN
Sheath material	0	1.4571 (316Ti)
Ø sheath	0 ... 2	4 · 5 · 6 mm
Nominal length	0, 1, 2, 4, 5	30 · 46 · 50 · 70 mm · other
Connecting cable	0 ... 4	PVC · PTFE-silicone · PTFE · PTFE braided · glass silk
Connection	0 · 1	open ends 70 mm · other length
Cable length	0 · 1	2 m · other length
Cable protection	0 ... 2	heat-shrink · spring · crimped transition
Special version	0	customer-specific, please state
Used temperature range	—	to be stated by the purchaser, in °C

The order code is formed from the product code and the fields of the key.

