

Thermocouple Cable Sensor

Characteristics

Thermocouple: type J (Fe-CuNi) / type K (NiCr-Ni)
The operative temperature range is dependent on

the selected connection cable.

Protective sheath: stainless steel 1.4571 (316Ti)

Ø Protective sheath: 4 / 5 / 6 mm
wall thickness: 0,25...1 mm

Nominal length: standard: 30 mm (Ø4) / 50 mm (Ø4)
50 mm (Ø5) / 46 mm (Ø6) / 70 mm (Ø6)
maximum length: 2000 mm
option: according to details

Connection cable: PVC-PVC / PTFE-silicone / PTFE-PTFE /
PTFE-braiding-PTFE
Fibreglass-Fibreglass-stainless steel braiding

Connection: open ends, bared, 70 mm
TE-plug standard / TE-plug mini
option: other length (open ends)

Cable length: standard: 2 m
option: according to details

Antikink: heat-shrinkable sleeve
option: spring
option: crimped

Sheath to cable: hexagonal crimp
option: ring crimp

Protection: IP 65 (up to 250 °C)
not for stainless steel braiding

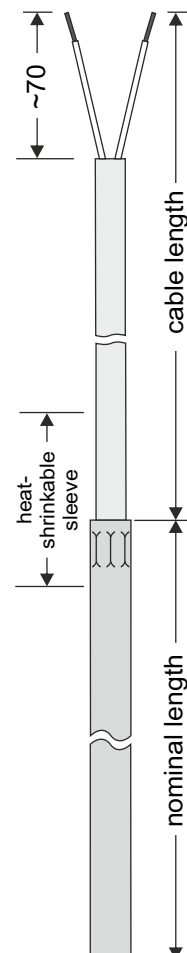
Insulating resistance: test voltage: 500 VDC

Mineral insulator: without

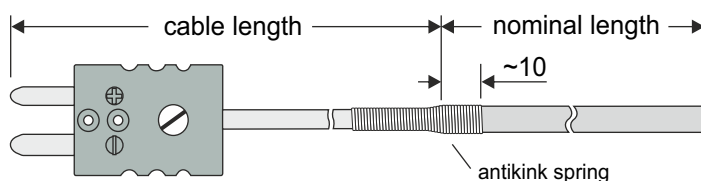
Accuracy: according DIN EN 60584-2 class 1
type J: $\pm 1,5\text{ °C}$ (-40...375 °C)
 $\pm 0,004|t|$ (375...750 °C)
type K: $\pm 1,5\text{ °C}$ (-40...375 °C)
 $\pm 0,004|t|$ (375...1000 °C)

Response time: sheath 6x0,5 mm: t_{90} : 30,9 s / t_{50} : 12 s
sheath 6x1 mm: t_{90} : 22,1 s / t_{50} : 7,6 s

all dimensions in mm



Option Antikink Spring / Option TE-Plug



Order Details for ID: KT

Type thermocouple

☐

- 0 1x type J
 1 1x type K
 2 2x type J
 3 2x type K

Material protective sheath

☐

- 0 stainless steel 1.4571

Ø protective sheath

☐

- 0 4 mm
 1 5 mm
 2 6 mm

Nominal length

☐ mm

- 0 30 mm (Ø4 mm)
 1 46 mm (Ø6 mm)
 2 50 mm (Ø4 mm)
 3 50 mm (Ø5 mm)
 4 70 mm (Ø6 mm)
 5 other length

Connection cable

☐

- 0 PVC/PVC
 1 PTFE/silicone
 2 PTFE/PTFE
 3 PTFE/braiding/PTFE
 4 F-glass/F-glass/ss braiding

Connection

☐

- 0 open ends
 1 TE-plug standard
 2 TE-plug mini
 3 open ends (other length)

Cable length

☐ mm

- 0 2 m
 1 other length

Cabel protection

☐

- 0 shrinkable sleeve
 1 antikink spring
 2 crimped

Special model

☐

- 0 customized (please indicate)

Used temperature range

-

°C

please indicate

Maximum operative temperature range:

Thermocouple: type J: -200...700°C / type K: -200...1000°C

Protective sheath: stainless steel 1.4571 (316Ti): up to 600°C / Inconel 600 (2.4816): up to 1100°C

Connection cable: PVC: -5...70 °C / silicone: -45...180 °C / PTFE: -75...250 °C /

Fibreglass/stainless steel braiding: -60...550°C