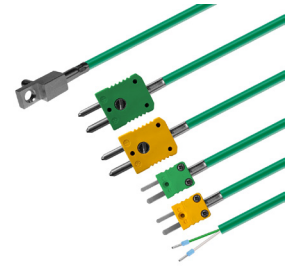


Angle contact thermocouple Type K with PVC cable with PFA cable

Article no.: 802073 4211

Our type K angle contact thermocouple with PFA cable is used for precise temperature measurements on smooth surfaces, e.g. in hot runner technology. The sensor is attached via a screw connection and the existing barb. The PFA cable offers high resistance to chemicals and remains flexible so that the sensor can be used reliably in the temperature range up to +260 °C. We offer various cable lengths and connection plugs so that you can adapt the thermocouple optimally to your installation situation. You will find suitable plugs and connection cables in our accessories.



| General Information | |
|----------------------|---|
| Measuring range | -40 °C to +260 °C depending on chosen connection cable |
| Perm. °C range cable | -50 °C to +260 °C |
| Accuracy | -40 °C to +375 °C: ±1,5 °C according to DIN IEC 60584 Class 1 |

| Supply and output | |
|--------------------|--------------------------|
| Measuring element | Thermocouple Type K |
| Measuring point | Measuring point isolated |
| Measurement signal | Thermovoltage |

| Ambient conditions | |
|---|--|
| Protection class | IP54 according to DIN 60529 (depending on cable) |
| Humidity and moisture condensation resistance | according to application-specific qualification |

| Certificates and Standards | |
|----------------------------|--|
| Standards | DIN EN 61326-1:2013 DIN EN IEC 63000:2019-05 |
| Directive | RoHS 2011/65/EU 2014/30/EU |



Customizable options

- C - Length protection sleeve
- E - Material connection cable
- F - Length connection cable
- G - Connector
- H - Bend protection

| Contact body | | | | | | | |
|---|--------------------|---------------------------|--------------|---------------|------------------------------------|-------------|---------|
| Picture | Contact body | | Dimensioning | | Protection sleeve | | Drawing |
| | Contact geometry | Square with step and hook | Length (mm) | 20 | C -Length protection sleeve | | |
| | | | Width (mm) | 8 | Length (mm) | Code | |
| | Material | Stainless Steel | Height (mm) | 8 | 12 ¹⁾ | C0012 | |
| | Mounting hole (mm) | 4,5 | | | 16 ¹⁾ | C0016 | |
| | | | | | 24 ¹⁾ | C0024 | |
| We offer other contact bodies on request. | | | | Ø (mm) | 4 ¹⁾ | | |

| E - Cable material and configuration connection cable | | | | | | | | | | | |
|--|-------|--------------------|----------------------|------|-------------------------|-----------------------|------------------|-----------------|----------------------|----------------------|--------------|
| Picture | Code | Type | Color | IP | From (°C) ¹⁾ | To (°C) ¹⁾ | Outside material | Material strand | Ø (mm) ²⁾ | Q (mm ²) | Color strand |
| | E8520 | Thermocouple cable | Type K ³⁾ | IP67 | -50 | +260 | PFA | PFA | 2,5 | 0,22 | gn, wt |
| Insulation resistance: ≥ 100 MOhm a min. 100 VDC ¹⁾ Perm. range °C ²⁾ Tolerance ± 0,2 mm ³⁾ Color according to IEC 584 ⁴⁾ per thermocouple | | | | | | | | | | | |

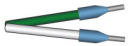
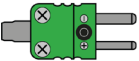
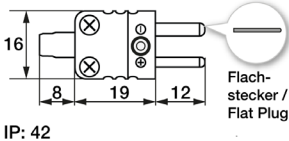
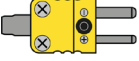
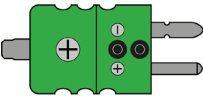
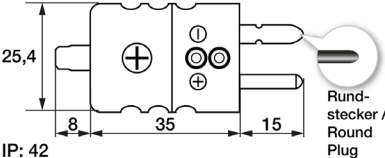
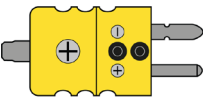
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| F - Length | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| Code | F010 | F020 | F030 | F040 | F050 | F100 | F150 | F200 |
| m | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 |

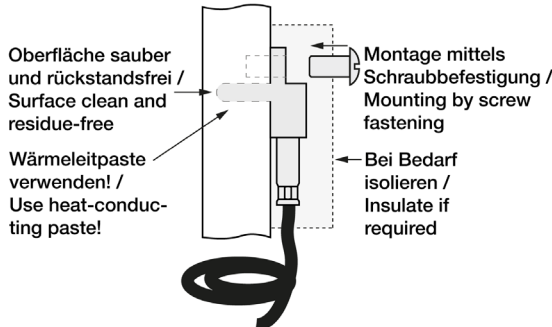
Other lengths on request

| G - Connector | | | |
|---|------|--------------------------------|--|
| Picture | Code | Feature | Technical drawing - Stecker |
|  | G01 | Insulated end ferrules (50 mm) | |
|  | G12 | Mini-TC connector Type K gn |  <p>16 8 19 12 Flachstecker / Flat Plug IP: 42</p> |
|  | G19 | Mini-TC connector Type K ye | |
|  | G32 | TC connector Type K gn |  <p>25,4 8 35 15 Rundstecker / Round Plug IP: 42</p> |
|  | G39 | TC connector Type K ye | |

| H - Bend protection | | | | | |
|---|-------------|---|------|-----------------------|--|
| Picture | Length (mm) | Material | Code | Feature | |
|  | 50 | Stainless steel spring 1.4310 SUS 302 | H0 | Without (Standard) | |
| | | | H1 | Metal bend protection | |

| Your order code | | | | | |
|-----------------|--------------------------|---------------------------|-------------------------|-----------|-----------------|
| Article no. | Length protection sleeve | Material connection cable | Length connection cable | Connector | Bend protection |
| 802073 4211 | C_____ | E_____ | F_____ | G_____ | H_____ |

| Delivery and Assembly | |
|------------------------|--------------------------------------|
| Assembly instructions | by means of screw fastening |
| Delivery and Packaging | Probe, separately packaged in PE bag |

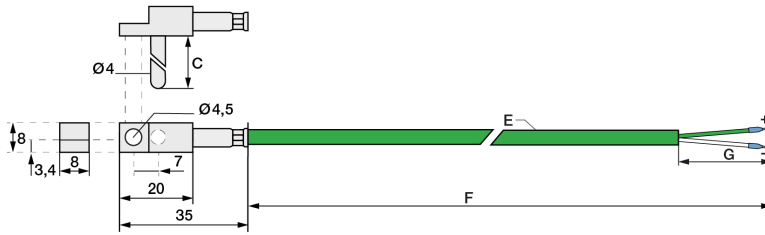
| Important assembly advices | |
|--|--|
| <p>The surface must be brightly polished and free of residues. Please attach the probe firmly. Please ensure good thermal contact, use thermal paste if necessary. Depending on the requirements, it may be useful to insulate the probe to minimize the influence of the ambient temperature.</p> |  |

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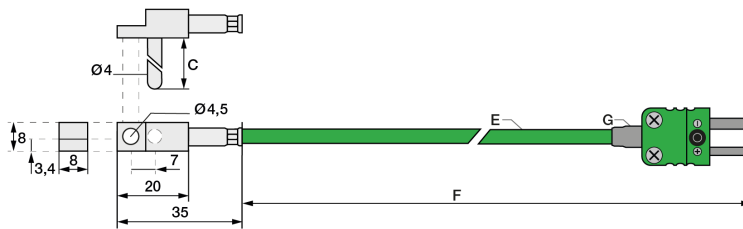
Technical drawing

| | | | |
|-----------------------------|---|--|---|
| Customizable options | C - Length protection sleeve E - Material connection cable | F - Length connection cable G - Connector | H - Bend protection All dimensions in mm |
|-----------------------------|---|--|---|

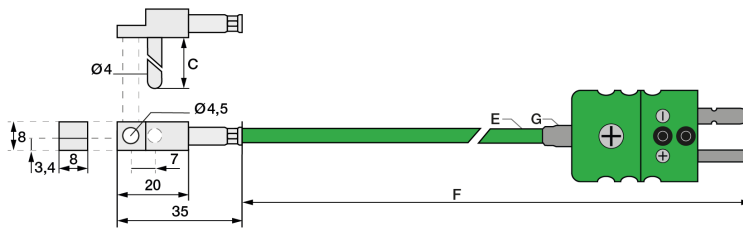
Version with insulated end ferrules



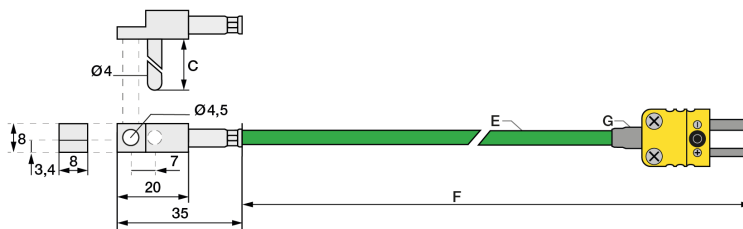
Version with Mini TE connector



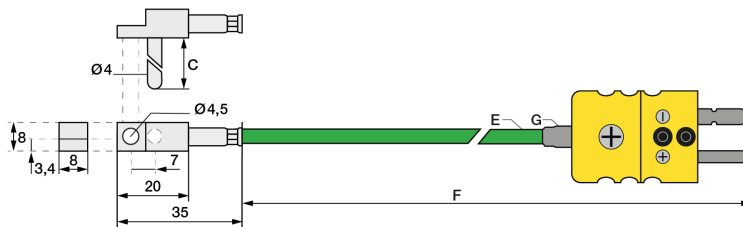
Version with TE connector



Version with Mini TE connector



Version with TE connector



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Matching accessories: Connector

| G - Connector | | | | | |
|---------------|-------------|-----------------------------|---------|-------------|----------------------------|
| Picture | Code | Feature | Picture | Code | Feature |
| | 809140 2000 | Mini-TC connector Type K gn | | 809100 2000 | Mini-TC coupling Type K gn |
| | 809150 2000 | TC connector Type K gn | | 809110 2000 | TC coupling Type K gn |
| | 809140 2001 | Mini-TC connector Type K ye | | 809100 2001 | Mini-TC coupling Type K ye |
| | 809150 2001 | TC connector Type K ye | | 809110 2001 | TC coupling Type K ye |

| Technical drawing - Connector | | | |
|-------------------------------|-------------------|--|------------------|
| | Mini-TC connector | | Mini-TC coupling |
| | TC connector | | TC coupling |

Other connectors available on request

Matching accessories: Heat-conducting paste

| Heat-conducting paste | | |
|-----------------------|----------------------|-------------------|
| Picture | Article no. | 809540 1000 |
| | Content | 10 ml |
| | Thermal conductivity | >2.5 W/mK |
| | Min / Max °C | -30 °C to +280 °C |
| | Thermal resistance | < 0.126 |
| | | |

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