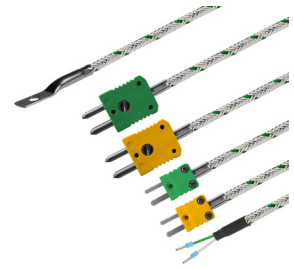


Thermocouple with cable lug Type K with PVC cable with glass fibre cable

Article no.: 802082 2211

Our contact thermocouple with cable lug type K and glass fiber cable is used for temperature measurements on smooth surfaces in mechanical and apparatus engineering. The sensor is attached via the cable lug and an M4 cable gland. The glass fiber cable is crimped and is suitable for use in temperature ranges up to +400 °C. Please note that the glass fiber cable offers a lower level of sealing compared to other materials. 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 +400 °C depending on chosen connection cable
Perm. °C range cable	-50 °C to +400 °C
Accuracy	-40 °C to +375 °C: ±1,5 °C 375 °C to 1.000 °C: ±0,004 t 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	IP20 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**
- E - Material connection cable
 - F - Length connection cable
 - G - Connector
 - H - Bend protection

Contact body					
Picture	Contact body		Dimensioning		Drawing
	Contact geometry	Cable lug	Length (mm)	15	
	Material	Brass	Width (mm)	7,35	
	Mounting hole (mm)	4,5	Height (mm)	1	
	We offer other contact bodies on request.				

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
	E8320	Thermocouple cable	Type K ³⁾	IP20	-50	+400	Varnish	Glass fibre	3,0	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											

MW / KC / 23.05.2025

Testo Sensor GmbH

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	
	G19	Mini-TC connector Type K ye	
	G32	TC connector Type K gn	
	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

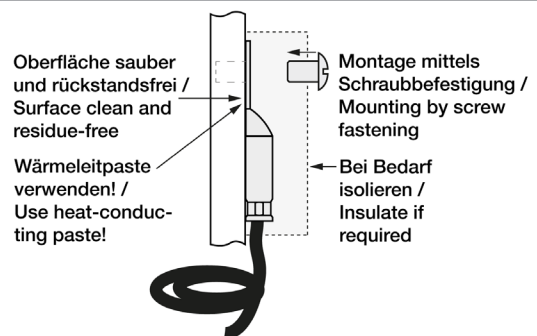
Article no.	Material connection cable	Length connection cable	Connector	Bend protection
802082 2211	E_____	F_____	G_____	H_____

Delivery and Assembly

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

Important assembly advices

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.



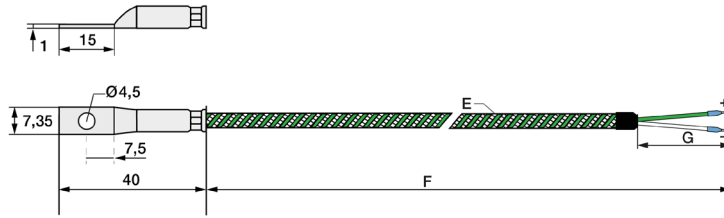
MW / KC / 23.05.2025

Testo Sensor GmbH

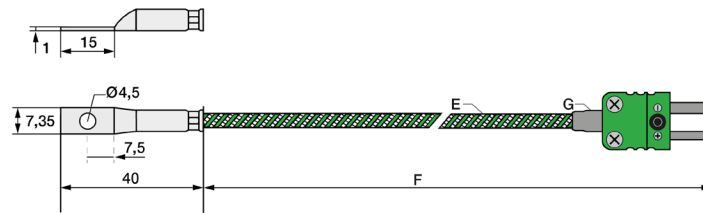
Technical drawing

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

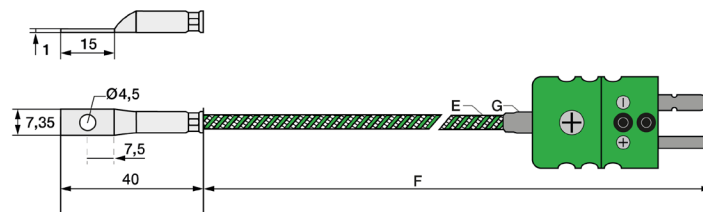
Version with insulated end ferrules



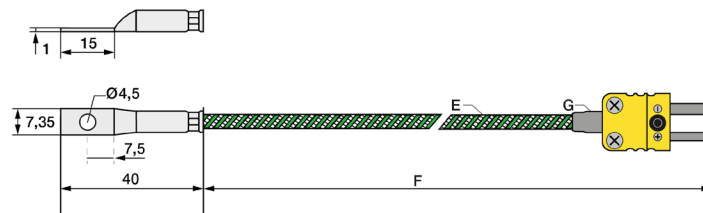
Version with Mini TE connector



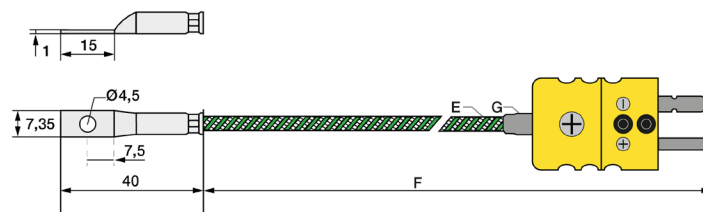
Version with TE connector



Version with Mini TE connector



Version with TE connector




MW / KC / 23.05.2025

Testo Sensor GmbH

+49 7653 96597-71 Managing Director: Prof. Burkart Knospe, Timo Löffler
 Testo-Straße 1 webshop@testo-sensor.de Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683
 D-79853 Lenzkirch Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

Matching accessories: Thermocouple cables

Thermocouple cables - Please select your desired cable first.

	Order code	Type	Color	IP	From (°C) ¹⁾	To (°C) ¹⁾	Outside material	Material strand	Ø (mm) ²⁾	Q (mm ²)	Color strand	Ω / m ⁴⁾
	809340 2	Thermocouple cable	Type K ³⁾	IP20	-50	+400	Varnish	Glass fibre	3,0	0,22	gn, wt	4,50

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | ¹⁾per. °C range | ²⁾Tolerance ± 0.2 mm | ³⁾ Color according to IEC 584 | ⁴⁾per thermocouple

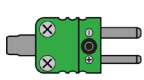
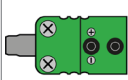
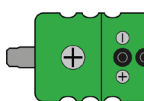
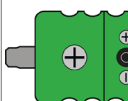
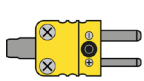
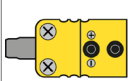
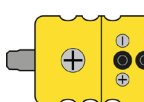
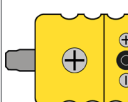
Now please select the length and add the code to the article no. of the cable.

Length (m)	1	2	5	10	20
Code	010	020	050	100	200

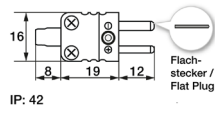
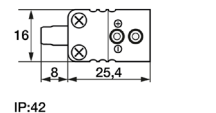
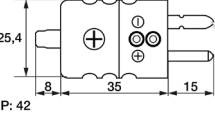
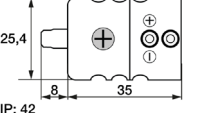
Please append these digits to the part number of your desired cable.

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


 IP: 42	Mini-TC connector	 IP:42	Mini-TC coupling
 IP: 42	TC connector	 IP: 42	TC coupling

Other connectors available on request

MW / KC / 23.05.2025

Testo Sensor GmbH

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

MW / KC / 23.05.2025

Testo Sensor GmbH

Testo-Straße 1
D-79853 Lenzkirch

+49 7653 96597-71

webshop@testo-sensor.de

Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

Managing Director: Prof. Burkart Knospe, Timo Löffler

Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683