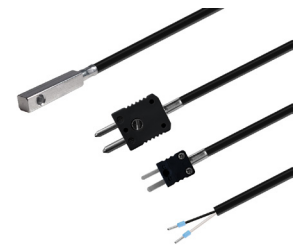


Thermocouple with block Type J with silicone cable

Article no.: 802063 2111

The contact thermocouple with contact block type J and silicone cable is ideal for temperature measurements on smooth surfaces in mechanical and apparatus engineering. It is attached using a screw connection. The silicone cable ensures excellent sealing and flexibility and can be used reliably in the temperature range from -50 °C to +180 °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 +180 °C depending on chosen connection cable
Perm. °C range cable	-50 °C to +180 °C
Accuracy	-40 °C to +375 °C: ±1,5 °C according to DIN IEC 60584 Class 1

Supply and output	
Measuring element	Thermocouple Type J
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
 E - Material connection cable
 F - Length connection cable
 G - Connector
 H - Bend protection

Contact body					
Picture	Contact body		Dimensioning		Drawing
	Contact geometry	Square	Length (mm)	30	
	Material	Aluminium	Width (mm)	6	
	Mounting hole (mm)	4,1	Height (mm)	6	
	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
	E8210	Thermocouple cable	Type J ³⁾	IP67	-50	+180	Silicone	FEP	3,6	0,22	bk, 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

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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)	
	G11	Mini-TC connector Type J bk	
	G31	TC connector Type J bk	

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
802063 2111	E_____	F_____	G_____	H_____

Delivery and Assembly	
Assembly instructions	by means of screw fastening or mounting adhesive
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	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



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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⁾
809310 1	Thermocouple cable	Type J ³⁾	IP67	-50	+180	Silicone	FEP	3,6	0,22	bk, wt	2,50

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 1000	Mini-TC connector Type J bk		809100 1000	Mini-TC coupling Type J bk
	809150 1000	TC connector Type J bk		809110 1000	TC coupling Type J bk

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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