NiCr-Ni thermowire T 190-0



Accuracy: NiCr-Ni class 2*
Insulation: Glass fiber (wires and sheath)
Operating temp.: -25 °C to +350 °C (short time up to 400 °C)
Wire diameter: 0.5 mm
External diameter: approx. 1.3 x 2.1 mm

NiCr-Ni thermowire per meter
with glass fiber covering **Order no. LT01900**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA3900**
ALMEMO® connector 5 m long **Order no. FTA3900L05**

NiCr-Ni thermowire T 190-1



Accuracy: NiCr-Ni class 2*
Insulation: Glass fiber (wires and sheath)
Operating temp.: -25 °C to +350 °C (short time up to 400 °C)
Wire diameter: 0.2 mm
External diameter: approx. 0.6 x 1.0 mm

NiCr-Ni thermowire per meter
with glass fiber covering **Order no. LT01901**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA3901**
ALMEMO® connector 5 m long **Order no. FTA3901L05**

NiCr-Ni thermowire T 190-2



Accuracy: NiCr-Ni class 2*
Insulation: PVC (wires and sheath)
Operating temp.: -10 °C to +105 °C
Wire diameter: 0.5 mm
External diameter: approx. 2.2 x 3.4 mm

NiCr-Ni thermowire per meter
with PVC insulation **Order no. LT01902**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA3902**
ALMEMO® connector 5 m long **Order no. FTA3902L05**

NiCr-Ni thermowire T 190-3



Accuracy: NiCr-Ni class 2*
Insulation: Silicone (wires and sheath)
Operating temp.: -45 °C to +200 °C
Wire diameter: 0.5 mm
External diameter: approx. 4 mm

NiCr-Ni thermowire per meter
with silicone insulation **Order no. LT01903**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA3903**
ALMEMO® connector 5 m long **Order no. FTA3903L05**

* Range of validity see beginning of chapter

DAkkS accredited calibration or factory calibration KT90xx temperature for sensor or measuring chain (sensor + device), see chapter „Calibration certificates“. DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

NiCr-Ni thermowire T 190-10



Accuracy: NiCr-Ni class 2*
Insulation: FEP (Wires and sheath)
Operating temp.: -200 °C to +205 °C
Wire diameter: 0.5 mm
External diameter: approx. 1.5 x 2.5 mm

NiCr-Ni thermowire per meter with FEP insulation **Order no. LT019010**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA39010**
ALMEMO® connector 5 m long **Order no. FTA39010L05**

NiCr-Ni thermowire T 190-11



Accuracy: NiCr-Ni class 2*
Insulation: FEP (Wires and sheath)
Operating temp.: -200 °C to +205 °C
Wire diameter: 0.2 mm
External diameter: approx. 1.3 x 2.0 mm

NiCr-Ni thermowire per meter with FEP insulation **Order no. LT019011**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA39011**
ALMEMO® connector 5 m long **Order no. FTA39011L05**

NiCr-Ni thermowire T 190-7



Only for dry, non-aggressive environments!

Accuracy: NiCr-Ni class 2*
Insulation: Ceramic fiber (Wires and sheath)
Operating temp.: -40 °C to +1200 °C
Wire diameter: 0.8 mm
External diameter: approx. 3 x 4 mm

NiCr-Ni thermowire per meter with ceramic fiber insulation **Order no. LT01907**

NiCr-Ni thermowire sensor, welded tip, with
ALMEMO® connector 1.5 m long **Order no. FTA3907**
ALMEMO® connector 5 m long **Order no. FTA3907L05**

NiCr-Ni compensation line T 191-1



Other types are available on request.
LT01912 Insulation Silicone/silicone/glass filament, up to 200 °C
LT01913 Insulation PVC / screening film / PVC, up to 105 °C

Compensation line: NiCr-Ni
Insulation: PVC (Wires and sheath)
Operating temp.: -10 °C to +105 °C
Wire diameter: 0.5 mm
External diameter: approx. 3.6 mm

NiCr-Ni bunched conductor with PVC insulation, for each meter **Order no. LT01911**

NiCr-Ni thermal line (stranded wire) T 191-6



Thermal line (stranded wire): NiCr-Ni*
Insulation: Wires: FEP, sheath: silicone
Operating temp.: -50...+200 °C
Wire diameter: 0.7 mm
External diameter: approx. 3.8 mm

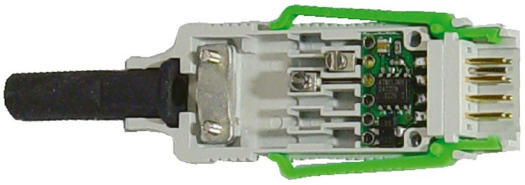
NiCr-Ni thermal line (stranded wire) with FEP / silicone insulation, per meter **Order no. LT01916**

* Range of validity see beginning of chapter
** There is no adverse temperature effect at the juncture from measuring element to cable. See beginning of chapter

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11/2025 • We reserve the right to make technical changes.

ALMEMO® connector for thermocouples (see Chapter ALMEMO® Input connectors)



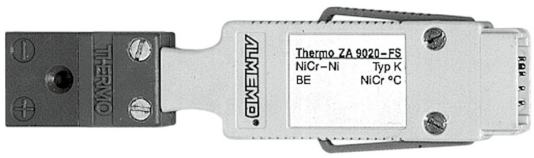
For Types K, N, L, J, T
(no thermo-electric transition / with thermal material)

NiCr-Ni (K)	**Order no. ZA9020FS**
NiCrSi-NiSi (N)	**Order no. ZA9021FSN**
Fe-CuNi (J)	**Order no. ZA9021FSJ**
Cu-CuNi (T)	**Order no. ZA9021FST**

For Types U, S, R, B, AuFe-Cr

Cu-CuNi (U)	**Order no. ZA9000FSU**
PtRh10-Pt (S)	**Order no. ZA9000FSS**
PtRh13-Pt (R)	**Order no. ZA9000FSR**
PtRh30-PtRh6 (B)	**Order no. ZA9000FSB**
AuFe-Cr (A)	**Order no. ZA9000FSA**

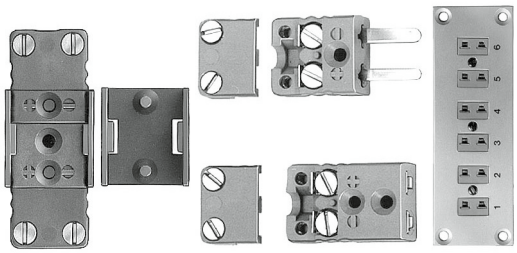
ALMEMO® adapter plug with miniature flat socket



For Types K, J, T, S

NiCr-Ni (K)	**Order no. ZKA029RA**
NiCrSi-NiSi (N)	**Order no. ZNA029RA**
Fe-CuNi (J)	**Order no. ZJA029RA**
Cu-CuNi (T)	**Order no. ZTA029RA**
PtRh-Pt (S)	**Order no. ZSA029RA**

Miniature flat connectors for thermocouples types K, J, T, S, E



Examples for NiCr-Ni (K):

NiCr-Ni flat socket	**Order no. ZK9029FB**
NiCr-Ni flat connector	**Order no. ZK9029FS**
Locking plate (10 pieces)	**Order no. ZB9029VP**
NiCr-Ni single built-in socket	**Order no. ZK9029FE**
1-row panel with NiCr-Ni socket	**Order no. ZK9029FB1**
6-row panel with NiCr-Ni socket	**Order no. ZK9029FB6**

- Connectors with thermo contacts for avoiding voltage corruption at thermocouple junctions.
- For ambient temperatures –183 to +200 °C.
- Locking plate for complete coupling.

Order numbers for the above examples are compiled from the following coding elements: Z①9029F②③.

The coding elements can be taken from the table below.

Ordering:

Type ①	Color (IEC 584)	Variant ②	Panel ③	Panel dimensions
NiCr-Ni (K)	green	Male connector = S	1 unit (1 row)	38 x 38 x 2.5 mm
NiCrSi-NiSi (N)	pink	Female connector = B	6 units (1 row)	113 x 38 x 2.5 mm
Fe-CuNi (J)	black		12 units (1 row)	203 x 38 x 2.5 mm
Cu-CuNi (T)	brown		24 units (2 rows)	203 x 76 x 2.5 mm
NiCr-CuNi (E)	lilac			mounting depth: 25.4 mm
PtRh-Pt (S)	orange			

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