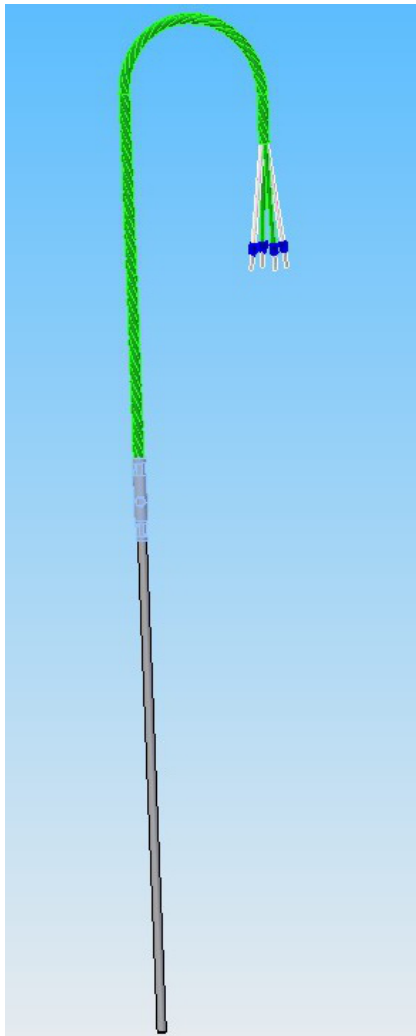


Sheathed thermocouple with cable
Type "T-Ma 15 (30,45,60,80) HKa"

Flexible version with
 connected compensation cable



Structure:

Thermocouples 1 (2) x Type "J", "K" and "N", Basic values according to DIN EN 60584, Tolerance class 1 or 2; Type "L" according to DIN 43710, Tolerance class 2, insulated or welded to the ground, completely in flexible version as mineral insulated sheathed cable, insulation of highly compressed magnesium powder.

Sheath material for
 Type "J" and "L" made of stainless steel
 Type "K" and "N" made of Inconel

Subsequent cable transition sleeve made of brass or stainless steel, compensation cable 2 or 4*0.22 qmm cross-section, insulated individually and together with silicone, cable lengths can be selected individually.

On request, the compensation cable can be provided with thermal connectors at the cable ends.

Diameters and lengths that are not listed can also be delivered.

(For variants please refer to the worksheet).

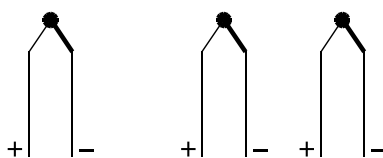
Design of the thermocouples:

max. recommended temperature load for element type:

	Fe-CuNi, Type "J"	Fe-CuNi, Type "L"	NiCr-Ni, Type "K"	NiCrSi-NiSi, Type "N"
DMa = 1.5mm	600°C	600°C	900°C	900°C
DMa = 2.0mm	600°C	600°C	900°C	900°C
DMa = 3.0mm	700°C	700°C	1000°C	1000°C
DMa = 6.0mm	700°C	700°C	1000°C	1000°C
DMa = 8.0mm	700°C	700°C	1200°C	1200°C

For very rapid response behaviour, the element can also be welded to the ground; see the section on Special versions or ask our technical customer service.

Types of wiring:



Element single

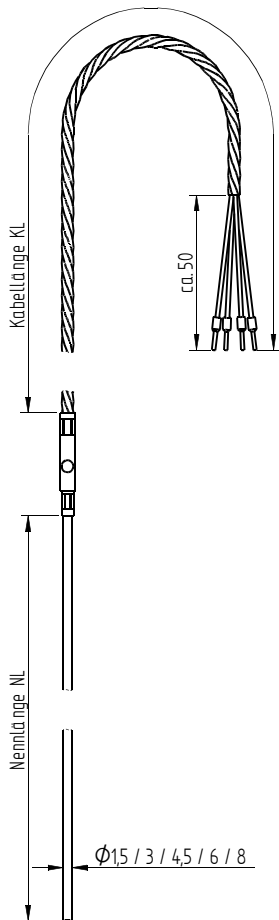
Element dual

Areas of application:

- Laboratories
- Pilot plants
- Furnaces
- At locations that are difficult to access
- For measurements in large, hot areas
- Can be glued or soldered to plant parts
- For gas, steam, fluids

Sheathed thermocouple with cable
Type "T-Ma 15 (30,45,60,80) HKa"

Flexible version with
 connected compensation cable



Sheath diameter DMA:

- 0.5mm | |
- 1.5mm | |
- 3.0mm | |
- 4.0mm | |
- 6.0mm | |
- others _____ | |

Sheath material:

- 1.4541 (V2A) | |
- 2.4816 (Inco) | |
- others _____ | |

Nominal length NL:

- 100mm | | 1000mm | |
- 300mm | | 2000mm | |
- 500mm | | others _____ | |

Connecting plug:

- Mini-plug | | Mini-coupling | |
- Standard-plug | | Standard-coupling | |

- Lemosa-plug | | Lemosa-coupling | |
- Size 0 | | 0 | | 1 | | 2 | |
- No of pins 2 | | 4 | | 6 | |

Connector assignment:

- Plus pole on socket | | Plus pole on pin | |

Temperature load: Measurement point: from | | to | | °C Environment/Connection cable: | | °C

Sheathed - thermocouple:

- NiCr-Ni "K" single | | dual | |
- Fe-CuNi "J" single | | dual | |
- NiCrSi-NiSi "N" single | | dual | |
- Fe-CuNi "L" single | | dual | |
- PtRh-Pt "S" single | | dual | |
- PtRh-Pt "R" single | | dual | |
- others _____ | |

Additional specification/ Remarks:

Tolerance class:

- Class "2" | |
- Class "1" | |
- Others _____ | |

Measuring point:

- welded insulated | |
- ground welded | |

Company : _____ | Your Ref. : _____ |
 Contact person : _____ | Quantity : _____ |
 Street/Place : _____ | Del. time : _____ |
 Email address : _____ | Telephone : _____ |