

TCG6

THERMOCOUPLE

CLASS
1

IEC
584-1

STANDARD
CONNECTOR


DESCRIPTION

Bendable flexible sheathed thermocouple for adaptation to the application, even in confined spaces. Small-diameter sensor with a short response time. Output equipped with a standard plug-in male connector with compensated contacts for quick connection. As an option, the extension with the corresponding female plug can be supplied with a PVC cable for a withstand of 105°C.

Thermocouples up to 3 mm in diameter must be handled with caution to avoid any breakage.

SPECIFICATIONS

| | | | | | | |
|-----------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|-------------|---------|
| Model | | TCG6 | | | | |
| Compliance with standards | | IEC 584-1 / EN 61515 | | | | |
| Type | | K | J | T | N | |
| Material | | Inconel 600 | 316L | 316L / 304L | Inconel 600 | Pyrosil |
| Class | | 1 | | 2 | 1 | |
| Diameter (d) (mm) | | 1 / 1.5 / 2 / 3 / 4.5 / 6 | | | | |
| Hot junction | | Insulated/Earthed | | | | |
| Thermocouple | | Single / Duplex | | | Single | |
| Length L Min/Max (mm) | Diam. 1 to 2 mm | 100 to 36,000 mm | | | | |
| | Diam. > 2 mm | 100 to 30,000 mm | | | | |
| Max. temp. in air (without air flow) (theoretical) | Diam. 1-1.5mm | 650°C | 260°C | 250°C | 650°C | 700°C |
| | Diam. 2 mm | 700°C | 440°C | 250°C | 700°C | 900°C |
| | Diam. 3 mm | 750°C | 520°C | 300°C | 750°C | 1000°C |
| | Diam. 4.5mm | 800°C | 620°C | 350°C | 800°C | 1100°C |
| | Diam. 6 mm | 1000°C | 720°C | 350°C | 1000°C | 1100°C |
| Output | | Standard plug-in male connector with compensated contacts | | | | |
| | Option | Extension with standard female plug with compensated contacts and cable clamp, PVC extension cable, 2x0.22mm ² conductors, insulated with PVC, internal copper braid. Withstand 105°C. | | | | |
| Accessories | | Leak-tight fittings, rotating fittings, connectors | | | | |

DESIGN YOUR SENSOR

CONFIGURATOR CODE

Parameters to be indicated when ordering

| MODEL | TC | SHEATH TYPE | ∅ SHEATH (mm) | LENGTH L (MM) | HOT JUNCTION | OPTION LENGTH Lc |
|--------------------------------|-------------------------------------|------------------------------------------------------------|-----------------------------|------------------------------------------------------------------|------------------------------------------|---------------------|
| TCG6 | - | - | - | - | - | - |
| Reference in table and diagram | 1 | 2 | 3 | 4 | | 5 |
| Possible choice | 1T / 1J 1K / 1N 2T / 2J 2K | 304L : AB 316L : AC INCONEL 600 : CM PYROSIL : DB | 1 / 1.5 2 / 3 4.5 / 6 | Diam 1-1.5-2: 100 to 36,000 Diam 3 - 4.5: 100 to 30,000 | Insulated: I (standard) Earthed: M | 200 to 25,000 mm |

DIAGRAM

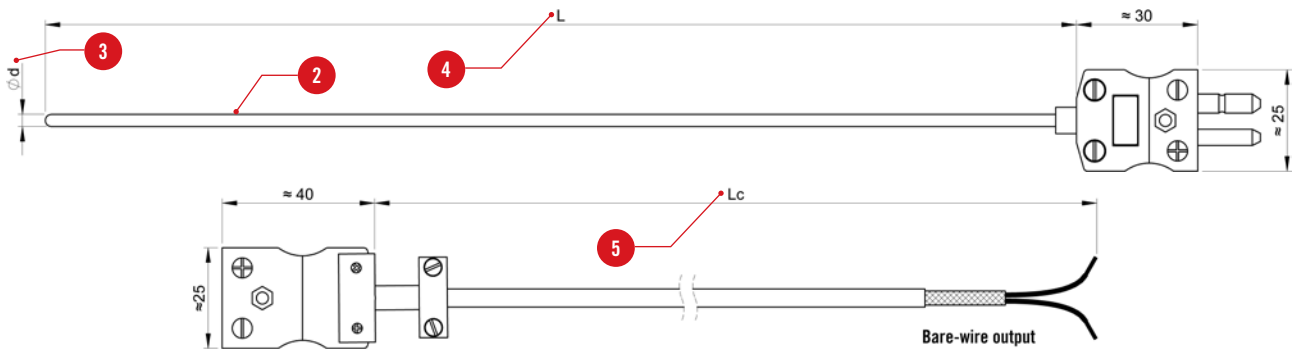


TABLE OF CONDUCTOR TYPE - WIRE DIAMETER

| TC | Sheath diameter (mm) | | | | | |
|----|----------------------|------------|------------|------------|------------|------------|
| | 1 | 1.5 | 2 | 3 | 4.5 | 6 |
| T | 316L | 316L | 316L | 316L | 316L | 316L |
| J | 316L | 316L | 316L | 316L | 316L | 316L |
| K | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 |
| N | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 |
| | - | PYROSIL | PYROSIL | PYROSIL | PYROSIL | PYROSIL |
| 2T | - | - | 304L | - | 304L | 304L |
| 2J | - | 316L | 316L | 316L | 316L | 316L |
| 2K | - | - | INCONEL600 | INCONEL600 | INCONEL600 | INCONEL600 |

CONNECTIONS

For any other configuration, please contact us.

