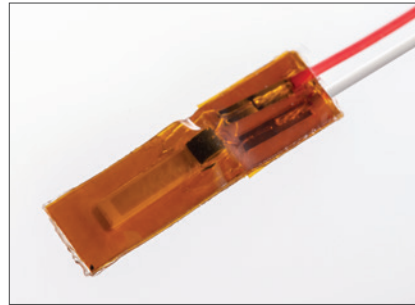


Product Description

Flexible film temperature sensors are ideal for sensing in very small areas, where accurate point sensing and fast response are required. Multiple point sensing elements may be used to sense multiple zone locations or even simulate an average over a larger area. Pressure Sensitive Adhesive (PSA) is the simplest mounting method. PSA is factory applied to the mounting surface of the flexible foil. Flexible film temperature sensors without PSA are available on request.

Application

- Plastic and Rubber Machines
- Packaging Machinery
- Machine building, plant and vessel construction
- Food and beverage industry

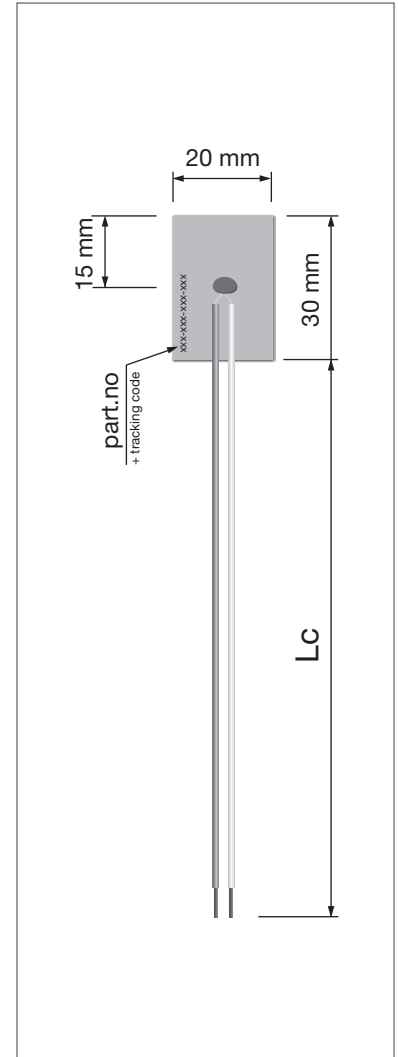


Sensor Specification

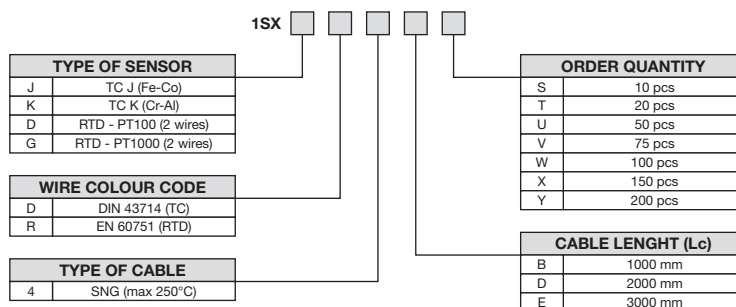
- Number of Sensing Elements: 1
- Type of Thermocouple Sensing Junction: Ungrounded
- Thermocouples are available according to color coding DIN 43714 (withdrawn)
- RTD Tolerance: Class B - EN 60751

Technical Features

- Flexible foil overall dimensions: 20 x 30 mm
- Flex foil Insulation Layer: polyimide
- Pressure Sensitive Adhesive: yes
- Terminals: stripped leads
- Maximum Continuous Operating Temperature: 175°C
- Short Term Maximum Temperature: 200°C
- Product Identification: Product part number and work order number are printed on sensor foil

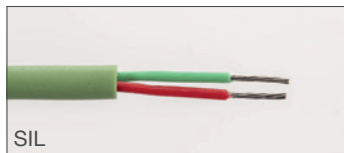


Product Configurator

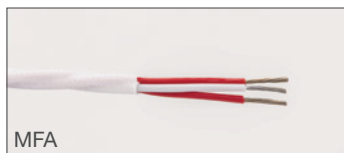


Temperature sensor cables

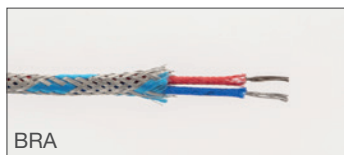
The cables for temperature sensors are the heart of instruments that measure temperature because they are the ones that form the circuit that determines the difference in potential (thermocouple) or transmit the electrical signal (RTD), which then in both cases the measuring instruments convert into the temperature reading. The cables offered by Zoppas meet the requirements of DIN, IEC and ASTM standards. Although the temperature sensor is designed to run at very high temperature, sensor lead wires and terminations are rated for much lower temperatures. Care should be taken to make sure that the sensor lead end temperatures do not exceed their limitations.



Cable Code	SIL
Description	Twisted MFA or Silicone insulated conductors covered with external silicone sheath
Features	Silicone rubber is a common choice for cable temperature sensors. Silicone rubber cables have excellent flexibility at both low temperatures and high temperatures. Furthermore, silicone rubber cables have accomplished electrical insulation properties.
Wire type	Solid or Stranded
Outside Shape	Rounded
External Jacket	Silicone rubber
Conductor Insulation	MFA - Probe diameter ≤ 4 mm
Conductor Insulation	Silicone - Probe diameter > 4 mm
Temperature range	-40°C / +200°C
Type of conductors	J or K (Thermocouple) - Tinned Cu (RTD)



Cable Code	MFA
Description	Twisted MFA insulated conductors covered with external MFA sheath
Features	MFA cables are heat resistant, chemically inert, and have great dielectric properties. Resistant to oils, acids other adverse agents and fluids.
Wire type	Solid or Stranded
Outside Shape	Rounded
External Jacket	MFA
Conductor Insulation	MFA
Temperature range	-40°C / +220°C
Type of conductors	J or K (Thermocouple) - Tinned Cu (RTD)



Cable Code	BRA
Description	Twisted fiberglass insulated conductors, fiberglass filling and external tinned copper armoring
Features	The tinned copper braided cable provides abrasion resistance, easy installation into cable trays or ducts and resistance to high temperature (up to 400°C). Will not prevent ingress of fluids.
Wire type	Solid or Stranded
Outside Shape	Rounded
External Jacket	Tinned Copper
Conductor Insulation	Fiberglass
Temperature range	Thermocouple: 0°C / 400°C - RTD: 0°C / 220°C
Type of conductors	J or K (Thermocouple) - Tinned Cu (RTD)



Cable Code	SNG
Description	Single wire made of solid or stranded conductors PFA insulated
Features	PFA cable is similar to MFA, but has a slightly different chemical composition, allowing it to withstand even higher temperatures than MFA. Good mechanical strength and flexibility.
Wire type	Solid or Stranded
Outside Shape	Rounded
Conductor Insulation	PFA
Temperature range	-40°C / +250°C
Type of conductors	J or K (Thermocouple) - Cu (RTD)

Standard color coding

The cables' color codigings offered by Zoppas meet the requirements of DIN, IEC and ASTM standards.

Standard colors	DIN 43714	IEC 584-3	ASTM E230	RTD TYPE
Thermo couple type				
J				2 wires
K				3 wires

Terminals

Our temperature sensors are available with two types of terminals: stripped leads or split leads terminals are made of tin plated electrolytic copper. Working Temperature Range: -20 / +115°C.

