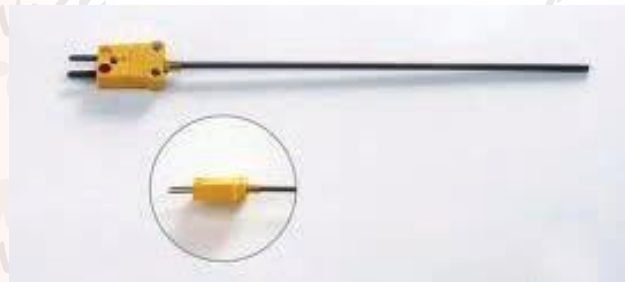
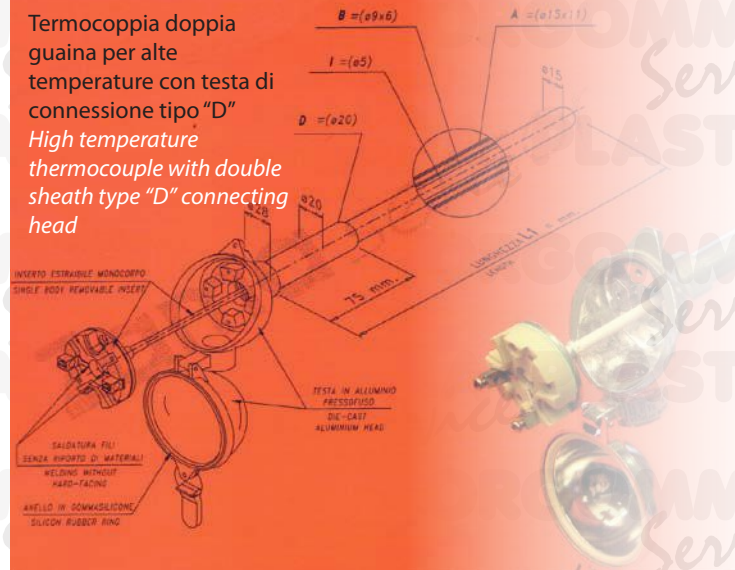


## Termocoppie

## Thermocouples

Termocoppia doppia  
guaina per alte  
temperature con testa di  
connessione tipo "D"  
High temperature  
thermocouple with double  
sheath type "D" connecting  
head



- 98522092010014 TC "K" mm 3.26 15X700
- 98523714012516 TC "S" 0.25mm 15X800mm
- 98523714013512 TC "S" 15X600
- 98523714013514 TC "S" 15X700

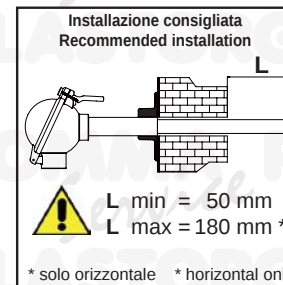
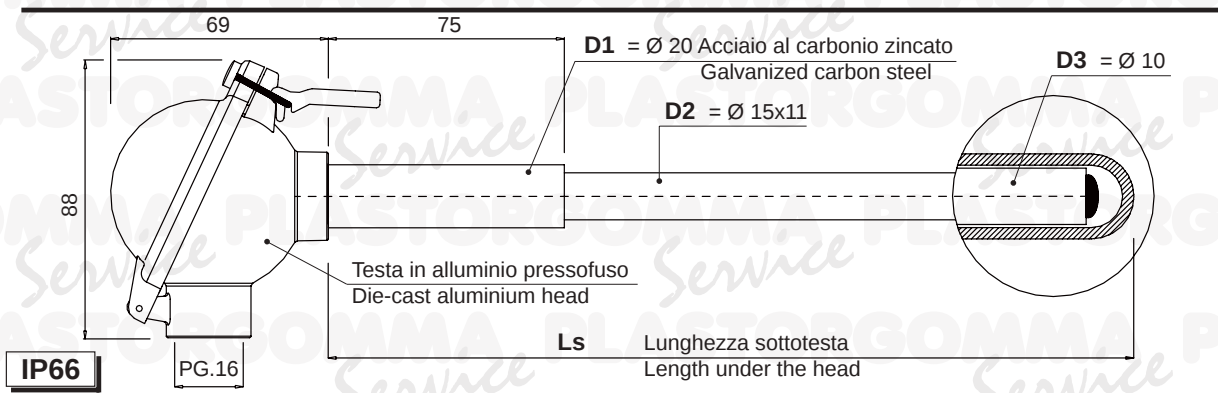


## Termocoppia con guaina in ceramica e testa "M"

### Thermocouple with ceramic protection tube and "M" head



Tolleranza termoelemento secondo la norma CEI EN 60584-2 Classe 1  
Tolerances thermoelement according to CEI EN 60584-2 Class 1  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%



Lunghezza Ls  
Length

|    |         |
|----|---------|
| 04 | 200 mm  |
| 05 | 250 mm  |
| 06 | 300 mm  |
| 07 | 350 mm  |
| 08 | 400 mm  |
| 09 | 450 mm  |
| 10 | 500 mm  |
| 11 | 550 mm  |
| 12 | 600 mm  |
| 13 | 650 mm  |
| 14 | 700 mm  |
| 15 | 750 mm  |
| 16 | 800 mm  |
| 17 | 850 mm  |
| 18 | 900 mm  |
| 19 | 950 mm  |
| 20 | 1000 mm |
| 21 | 1050 mm |
| 22 | 1100 mm |
| 23 | 1150 mm |
| 24 | 1200 mm |
| 25 | 1250 mm |
| 26 | 1300 mm |
| 27 | 1350 mm |
| 28 | 1400 mm |
| 29 | 1450 mm |
| 30 | 1500 mm |
| 31 | 1550 mm |
| 32 | 1600 mm |
| 33 | 1650 mm |
| 34 | 1700 mm |
| 35 | 1750 mm |
| 36 | 1800 mm |
| 37 | 1850 mm |
| 38 | 1900 mm |
| 39 | 1950 mm |
| 40 | 2000 mm |

Tutte le quote sono espresse in mm  
All dimensions are in millimeters

Opzioni canotto (D1)  
Rod options

| C                                 | 2                                                                    | 0 |  |
|-----------------------------------|----------------------------------------------------------------------|---|--|
| Materiale canotto<br>Rod material |                                                                      |   |  |
| A                                 | Acciaio al carbonio zincato<br>Galvanized carbon steel<br>(standard) |   |  |
| I                                 | Acciaio inox aisi 310<br>Stainless steel aisi 310                    |   |  |
| 02                                | 100 mm                                                               |   |  |
| 03                                | 150 mm                                                               |   |  |
| 04                                | 200 mm                                                               |   |  |
| 05                                | 250 mm                                                               |   |  |
| 06                                | 300 mm                                                               |   |  |
| 07                                | 350 mm                                                               |   |  |
| 08                                | 400 mm                                                               |   |  |
| 09                                | 450 mm                                                               |   |  |
| 10                                | 500 mm                                                               |   |  |
| 11                                | 550 mm                                                               |   |  |
| 12                                | 600 mm                                                               |   |  |
| 13                                | 650 mm                                                               |   |  |
| 14                                | 700 mm                                                               |   |  |
| 15                                | 750 mm                                                               |   |  |
| 16                                | 800 mm                                                               |   |  |
| 17                                | 850 mm                                                               |   |  |
| 18                                | 900 mm                                                               |   |  |
| 19                                | 950 mm                                                               |   |  |
| 20                                | 1000 mm                                                              |   |  |

Massime temperature di lavoro consigliate °C  
Advised maximum operating temperatures °C

|                             | Uso continuo<br>Continuous use |        | Uso intermittente<br>Intermittent use |        |
|-----------------------------|--------------------------------|--------|---------------------------------------|--------|
| Ø fili (mm)<br>Ø wires (mm) | Ø 2.30                         | Ø 3.26 | Ø 2.30                                | Ø 3.26 |
| K<br>(NiCr-Ni)              | 990°C                          | 1060°C | 1110°C                                | 1160°C |
| N<br>(Nicrosil-Nisil)       | 1110°C                         | 1160°C | 1200°C                                | 1250°C |

Termoelemento  
Thermoelement

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| Singolo (2 fili)<br>Single<br>(Ø 3.26 mm) | Doppio (4 fili)<br>Double<br>(Ø 2.30 mm) |
| 1                                         | 2                                        |

Tipo termocoppia  
Thermocouple type

|                |                       |
|----------------|-----------------------|
| K<br>(NiCr-Ni) | N<br>(Nicrosil-Nisil) |
| 2              | 3                     |

Guaina di protezione  
Protection tube

| Guaina esterna<br>Outer protection<br>tube (D2) | C 610<br>(AL203 60%)<br>(EN.60.672-DIN VDE 0335) | C 799<br>(AL203 99.7%)<br>(EN.60.672-DIN VDE 0335) |
|-------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| Isolatore<br>Insulator<br>(D3)                  | Ceramica<br>Ceramic                              | Ceramica<br>Ceramic                                |
|                                                 | 00                                               | 10                                                 |

La termocoppia viene fornita priva di pressacavo (PG16).  
The thermocouple is supplied without core hitch (PG16).

Esempio di ordine: Cod. T1000.021.0012 + CA2003 Termocoppia tipo "K", guaina esterna C610, termoelemento singolo, lunghezza sottotesta 600 mm + opz. canotto in acciaio al carbonio L=150 mm.

Ordering example: Cod. T1000.021.0012 + CA2003 "K" type thermocouple, outside sheath C610, single thermoelement, length under the head 600 mm + opt. galvanized carbon steel rod L=150 mm.

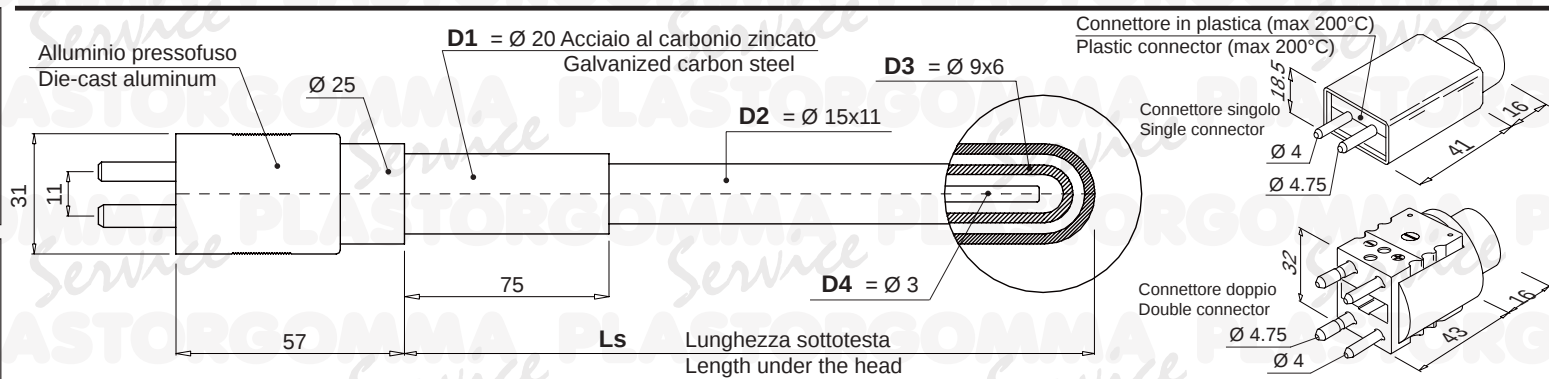
T 1 0 . 0 . 0 0

# Termocoppia con guaine in ceramica + inserto ad isolamento minerale (MgO)

Thermocouple with ceramic protection tube + mineral insulated (MgO) insert



Tolleranza termoelemento secondo la norma CEI EN 60584-2 Classe 1  
Tolerances thermoelement according to CEI EN 60584-2 Class 1  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%



| Lunghezza Ls<br>Length |         |
|------------------------|---------|
| 02                     | 100 mm  |
| 03                     | 150 mm  |
| 04                     | 200 mm  |
| 05                     | 250 mm  |
| 06                     | 300 mm  |
| 07                     | 350 mm  |
| 08                     | 400 mm  |
| 09                     | 450 mm  |
| 10                     | 500 mm  |
| 11                     | 550 mm  |
| 12                     | 600 mm  |
| 13                     | 650 mm  |
| 14                     | 700 mm  |
| 15                     | 750 mm  |
| 16                     | 800 mm  |
| 17                     | 850 mm  |
| 18                     | 900 mm  |
| 19                     | 950 mm  |
| 20                     | 1000 mm |
| 21                     | 1050 mm |
| 22                     | 1100 mm |
| 23                     | 1150 mm |
| 24                     | 1200 mm |
| 25                     | 1250 mm |
| 26                     | 1300 mm |
| 27                     | 1350 mm |
| 28                     | 1400 mm |
| 29                     | 1450 mm |
| 30                     | 1500 mm |
| 31                     | 1550 mm |
| 32                     | 1600 mm |
| 33                     | 1650 mm |
| 34                     | 1700 mm |
| 35                     | 1750 mm |
| 36                     | 1800 mm |
| 37                     | 1850 mm |
| 38                     | 1900 mm |
| 39                     | 1950 mm |
| 40                     | 2000 mm |

Tutte le quote sono espresse in mm  
All dimensions are in millimeters

## Opzioni canotto (D1) Rod options

| C 2 0                                                               |            |
|---------------------------------------------------------------------|------------|
| Materiale canotto<br>Rod material                                   |            |
| A Acciaio al carbonio zincato<br>Galvanized carbon steel (standard) |            |
| I Acciaio inox aisi 310<br>Stainless steel aisi 310                 |            |
|                                                                     | 02 100 mm  |
|                                                                     | 03 150 mm  |
|                                                                     | 04 200 mm  |
|                                                                     | 05 250 mm  |
|                                                                     | 06 300 mm  |
|                                                                     | 07 350 mm  |
|                                                                     | 08 400 mm  |
|                                                                     | 09 450 mm  |
|                                                                     | 10 500 mm  |
|                                                                     | 11 550 mm  |
|                                                                     | 12 600 mm  |
|                                                                     | 13 650 mm  |
|                                                                     | 14 700 mm  |
|                                                                     | 15 750 mm  |
|                                                                     | 16 800 mm  |
|                                                                     | 17 850 mm  |
|                                                                     | 18 900 mm  |
|                                                                     | 19 950 mm  |
|                                                                     | 20 1000 mm |

## Guaine di protezione Protection tube

| Guaina esterna<br>Outer protection tube (D2) | C 610<br>(AL203 60%)<br>(EN.60.672-DIN VDE 0335) | C 610<br>(AL203 60%)<br>(EN.60.672-DIN VDE 0335) | C 799<br>(AL203 99.7%)<br>(EN.60.672-DIN VDE 0335) | C 799<br>(AL203 99.7%)<br>(EN.60.672-DIN VDE 0335) |
|----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Guaina interna<br>Inner protection tube (D3) | —                                                | C 610<br>(AL203 60%)<br>(EN.60.672-DIN VDE 0335) | —                                                  | C 799<br>(AL203 99.7%)<br>(EN.60.672-DIN VDE 0335) |
|                                              | 0                                                | 1                                                | 2                                                  | 3                                                  |

## Massime temperature di lavoro consigliate °C Advised maximum operating temperatures °C

| Tipo termocoppia<br>Thermocouple type | Uso continuo<br>Continuous use | Uso intermittente<br>Intermittent use |
|---------------------------------------|--------------------------------|---------------------------------------|
| K<br>(NiCr-Ni)                        | 950°C                          | 1150°C                                |
| N<br>(Nicrosil-Nisil)                 | 1020°C                         | 1150°C                                |

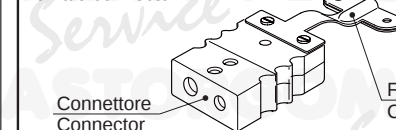
## Tipo termocoppia Thermocouple type

| K<br>(NiCr-Ni) | N<br>(Nicrosil-Nisil) |
|----------------|-----------------------|
| 2              | 3                     |

## Tipo connettore Connector type

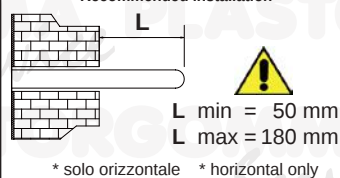
| Singolo<br>Single | Doppio<br>Double |
|-------------------|------------------|
| 1                 | 2                |

## Optional Connettore femmina Female connector



|      | K<br>(NiCr-Ni) | N<br>(Nicrosil-Nisil) |
|------|----------------|-----------------------|
| Cod. | COSKF          | COSNF                 |
|      |                | Cod. COASFC           |

## Installazione consigliata Recommended installation



T 1 2 0 . 0 . 0 0

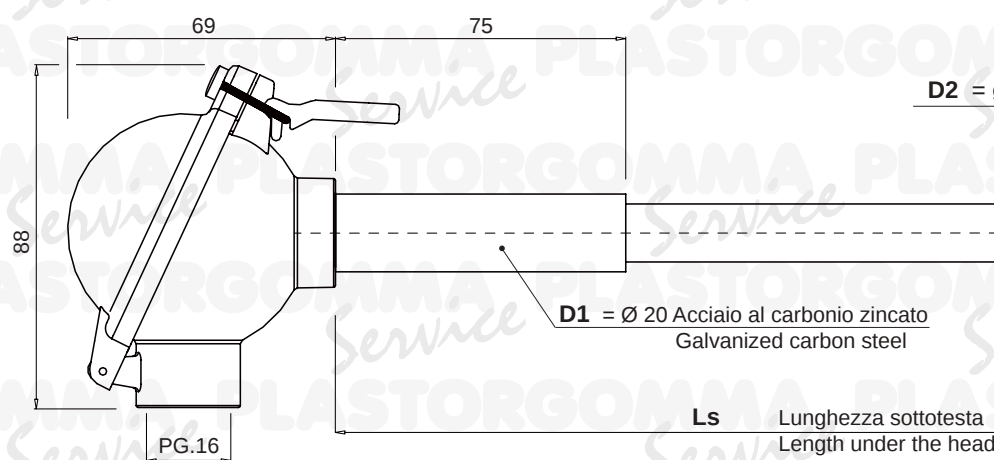
# Termocoppia con guaine in ceramica e testa "M"

## Thermocouple with ceramic protection tube and "M" head

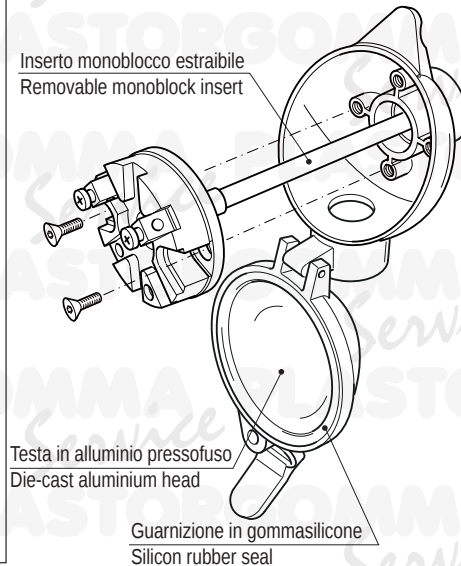
Pag.1



Tolleranza termoelementi: CEI EN 60584-2 - Classe 1 per tipo "S" e "R" - Classe 2 per tipo "B"  
Tolerances thermoelement: CEI EN 60584-2 - Class 1 for "S" e "R" type - Class 2 for "B" type  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%  
Tolleranza sul diametro dei fili +/- 0,02 mm - Wires diameter tolerances +/- 0,02 mm



Inserto monoblocco estraibile  
Removable monoblock insert



### Ceramica tipo C530 ( DIN VDE 0335, EN 60.672 )

Ceramica porosa utilizzabile fino a 1400°C. La composizione con il 75% di allumina, l'assorbimento del 12% e la mancanza di tracce di ferro, le conferiscono un'ottima resistenza agli shock termici ed una buona elasticità strutturale. Buona stabilità dimensionale.

### Ceramica tipo C610 ( DIN VDE 0335, EN 60.672 )

Ceramica economica con buona tenuta ai gas. La normativa ne prevede l'uso continuo fino a 1400°C. Molto buona la resistenza contro gas essenti da acido idrofluorico. La composizione con il 60% di allumina e un assorbimento inferiore allo 0,2%, ne conferiscono un'ottima stabilità dimensionale per guaine applicate in orizzontale, oltre ad un ottimo coefficiente di resistenza agli shock termici ( TSR ).

### Ceramica tipo C799 ( DIN VDE 0335, EN 60.672 )

Ceramica ad altissima refrattarietà grazie ad un contenuto di allumina del 99,7% (di cui 0,3% è MgO). Ottima stabilità e conduttività termica, refrattarietà fino a 1700°C, buona resistenza agli shock termici. Non degasante in condizioni di vuoto e chimicamente inerte. Alta impermeabilità ai gas riducenti, azoto e ai materiali policristallini. Alta resistenza a flessione, compressione, agli acidi, alle radiazioni nucleari ai raggi X e ai raggi UV.

### Ceramic material type C530 (DIN VDE 0335, EN 60.672)

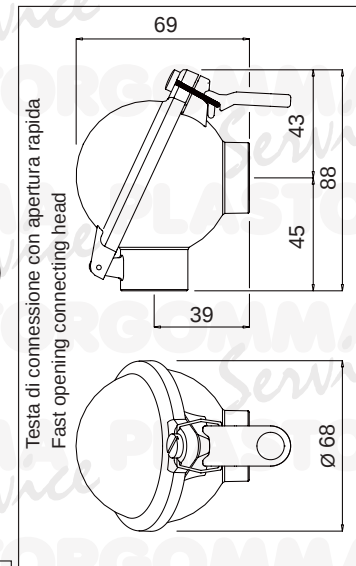
Porous ceramic material, suitable for temperatures up to 1400°C. The 75% alumina content, a 12% absorption and the iron-free composition give this material an excellent resistance to thermal shock and a good structural elasticity. Good dimensional stability.

### Ceramic material type C610 (DIN VDE 0335, EN 60.672)

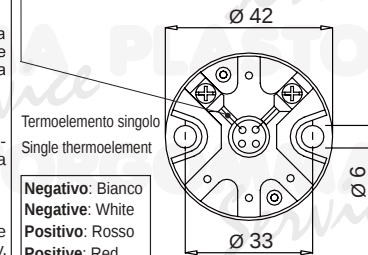
Ceramic material at a convenient price with good gas-tightness properties. According to the standard, it can be used continuously at a temperature of up to 1400°C. Very good resistance to hydrofluoric acid-free gas. The 80% content of alumina and absorption of less than 0.2% give it an excellent dimensional stability as cladding material to be installed horizontally. Furthermore, it has an excellent thermal shock resistance coefficient (TSR).

### Ceramic material type C799 (DIN VDE 0335, EN 60.672)

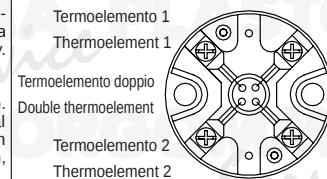
Ceramic material with extremely high refractory properties thanks to the 99.7% content of alumina (of which 0.3% is MgO). Excellent stability and thermal conductivity. Refractory properties are granted up to 1700°C. Good resistance to thermal shock. Non-degassing under vacuum and chemically inert. Considerable tightness properties against reducing gas, nitrogen and polycrystalline materials. High flexural and compression strength as well as high resistance to acid, nuclear radiation, X-rays and UV rays.



Saldatura fili in platino senza riporto di materiale  
Platinum welding without hard-facing



Negativo: Bianco  
Negative: White  
Positivo: Rosso  
Positive: Red



Tutte le quote sono espresse in mm  
All dimensions are in millimeters

Serie T 5 0 0 0

# Termocoppia con guaine in ceramica e testa "M"

Thermocouple with ceramic protection tube and "M" head

Pag.2



Tolleranza termoelementi: CEI EN 60584-2 - Classe 1 per tipo "S" e "R" - Classe 2 per tipo "B"  
Tolerances thermoelement: CEI EN 60584-2 - Class 1 for "S" e "R" type - Class 2 for "B" type  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%  
Tolleranza sul diametro dei fili +/- 0,02 mm - Wires diameter tolerances +/- 0,02 mm

## Opzioni canotto (D1) Rod options

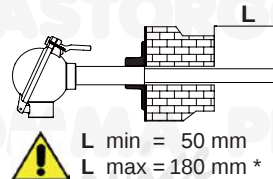


### Materiale canotto Rod material

|     |                                                                         |
|-----|-------------------------------------------------------------------------|
| A20 | Acciaio al carbonio zincato (Ø20)<br>Galvanized carbon steel (standard) |
| I20 | Acciaio inox aisi 310 (Ø20)<br>Stainless steel aisi 310                 |
| I21 | Acciaio inox aisi 310 (Ø21,3)<br>Stainless steel aisi 310               |
| R21 | Acciaio inox aisi 446 (Ø21,3)<br>Stainless steel aisi 446               |

|    |         |
|----|---------|
| 01 | 75 mm   |
| 02 | 100 mm  |
| 03 | 150 mm  |
| 04 | 200 mm  |
| 05 | 250 mm  |
| 06 | 300 mm  |
| 07 | 350 mm  |
| 08 | 400 mm  |
| 09 | 450 mm  |
| 10 | 500 mm  |
| 11 | 550 mm  |
| 12 | 600 mm  |
| 13 | 650 mm  |
| 14 | 700 mm  |
| 15 | 750 mm  |
| 16 | 800 mm  |
| 17 | 850 mm  |
| 18 | 900 mm  |
| 19 | 950 mm  |
| 20 | 1000 mm |

## Installazione consigliata Recommended installation



\* solo orizzontale \* horizontal only

## Diametro filo (mm) Wire diameter (mm)

| Ø 0.20 | Ø 0.25 | Ø 0.30 | Ø 0.35 | Ø 0.50 |
|--------|--------|--------|--------|--------|
| 20     | 25     | 30     | 35     | 50     |

## Termoelemento Thermoelement

| Singolo (2 fili)<br>Single | Doppio (4 fili)<br>Double |
|----------------------------|---------------------------|
| 1                          | 2                         |

## Tipo termocoppia Thermocouple type

| S<br>(Pt Rh 10% - Pt) | R<br>(Pt Rh 13% - Pt) | B<br>(Pt Rh 30% - Pt Rh 6%) * |
|-----------------------|-----------------------|-------------------------------|
| 4                     | 5                     | 6                             |

\* Disponibile solo per il Ø 0.50 mm. / Available only for Ø 0.50 mm.

## T1 Massime temperature di lavoro consigliate °C T1 Advised maximum operating temperatures °C

|                                                          | Uso continuo / Continuous use |        |        |        |        | Uso intermittente / Intermittent use |        |        |        |        |
|----------------------------------------------------------|-------------------------------|--------|--------|--------|--------|--------------------------------------|--------|--------|--------|--------|
| Diametro fili inserto (mm)<br>Insert wires diameter (mm) | Ø 0.20                        | Ø 0.25 | Ø 0.30 | Ø 0.35 | Ø 0.50 | Ø 0.20                               | Ø 0.25 | Ø 0.30 | Ø 0.35 | Ø 0.50 |
| S (Pt Rh 10% - Pt)                                       | 1000                          | 1100   | 1130   | 1300   | 1400   | 1090                                 | 1190   | 1220   | 1420   | 1650   |
| R (Pt Rh 13% - Pt)                                       | 1000                          | 1100   | 1130   | 1300   | 1400   | 1090                                 | 1190   | 1220   | 1420   | 1650   |
| B (Pt Rh 30% - Pt Rh 6%)                                 | —                             | —      | —      | —      | 1600   | —                                    | —      | —      | —      | 1770   |

La massima temperatura di lavoro della termocoppia e' la minore tra i due valori prescelti dalle tabelle T1 e T2  
Maximum operating temperature of the thermocouple is the lower value of the two indicated in tables T1 and T2

La termocoppia viene fornita priva di pressacavo (PG16).  
The thermocouple is supplied without core hitch (PG16).

Esempio di ordine: Cod. T5000.041.3512 + CA2003 Termocoppia tipo "S", guaina esterna, interna e isolatore in C610, termoelemento singolo, diametro fili inserto 0,35 mm, lunghezza sottotesta 600 mm + opz. canotto in acciaio al carbonio L=150 mm.  
Ordering example: Cod. T5000.041.3512 + CA2003 "S" type thermocouple, outer and inner protection tube and insulator C610, single thermoelement, insert wires diameter 0,35 mm, length under the head 600 mm + opt. galvanized carbon steel rod L=150 mm

## T2 Materiale guaine e isolatore T2 Protection tube and insulator material

| Guaina esterna<br>Outer protection tube (D2) | C 610<br>(AL203 60%)<br>1400°C | C 610<br>(AL203 60%)<br>1400°C   | C 799<br>(AL203 99.7%)<br>1700°C | C 530<br>(AL203 75%)<br>1400°C | C 530<br>(AL203 75%)<br>1400°C   |
|----------------------------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------|----------------------------------|
| Guaina interna<br>Inner protection tube (D3) | C 610<br>(AL203 60%)<br>1400°C | C 799<br>(AL203 99.7%)<br>1700°C | C 799<br>(AL203 99.7%)<br>1700°C | C 610<br>(AL203 60%)<br>1400°C | C 799<br>(AL203 99.7%)<br>1700°C |
| Isolatore<br>Insulator (D4)                  | C 610<br>(AL203 60%)<br>1400°C | C 610<br>(AL203 60%)<br>1400°C   | C 799<br>(AL203 99.7%)<br>1700°C | C 610<br>(AL203 60%)<br>1400°C | C 610<br>(AL203 60%)<br>1400°C   |
|                                              | 00                             | 10                               | 20                               | 21                             | 22                               |

## Lunghezza Ls Length

|    |         |
|----|---------|
| 03 | 150 mm  |
| 04 | 200 mm  |
| 05 | 250 mm  |
| 06 | 300 mm  |
| 07 | 350 mm  |
| 08 | 400 mm  |
| 09 | 450 mm  |
| 10 | 500 mm  |
| 11 | 550 mm  |
| 12 | 600 mm  |
| 13 | 650 mm  |
| 14 | 700 mm  |
| 15 | 750 mm  |
| 16 | 800 mm  |
| 17 | 850 mm  |
| 18 | 900 mm  |
| 19 | 950 mm  |
| 20 | 1000 mm |
| 21 | 1050 mm |
| 22 | 1100 mm |
| 23 | 1150 mm |
| 24 | 1200 mm |
| 25 | 1250 mm |
| 26 | 1300 mm |
| 27 | 1350 mm |
| 28 | 1400 mm |
| 29 | 1450 mm |
| 30 | 1500 mm |
| 31 | 1550 mm |
| 32 | 1600 mm |
| 33 | 1650 mm |
| 34 | 1700 mm |
| 35 | 1750 mm |
| 36 | 1800 mm |
| 37 | 1850 mm |
| 38 | 1900 mm |
| 39 | 1950 mm |
| 40 | 2000 mm |

Tutte le quote sono espresse in mm  
All dimensions are in millimeters

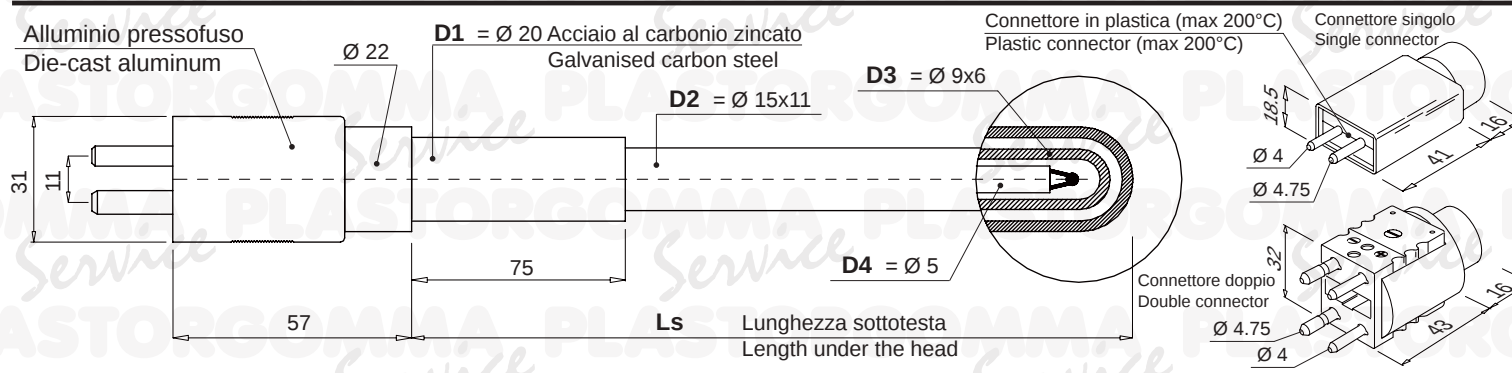
T 5 0 . 0 .

## Termocoppia con guaine in ceramica e connettore in plastica

### Thermocouple with ceramic protection tube and plastic connector

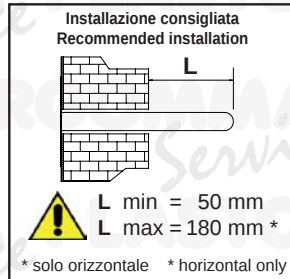


Tolleranza termoelementi: CEI EN 60584-2 - Classe 1 per tipo "S" e "R" - Classe 2 per tipo "B"  
Tolerances thermoelements: CEI EN 60584-2 - Class 1 for "S" and "R" type - Class 2 for "B" type  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%  
Tolleranza sul diametro dei fili +/- 0.02 mm - Wires diameter tolerances +/- 0.02 mm



| Optional                               | MAX. 200°C | Cod.               |
|----------------------------------------|------------|--------------------|
| Connettore femmina<br>Female connector |            | <b>COSSF</b>       |
| Connettore<br>Connector                |            | <b>COSSF</b>       |
| Fermacavo<br>Cable clamp               |            | <b>COSBF</b>       |
|                                        |            | <b>Cod. COASFC</b> |

La massima temperatura di lavoro della termocoppia e' la minore tra i due valori prescelti dalle tabelle T1 e T2  
Maximum operating temperature of the thermocouple is the lower value of the two indicated in tables T1 and T2



**T1 Massime temperature di lavoro consigliate °C**  
**T1 Advised maximum operating temperatures °C**

|                                                          | Uso continuo / Continuous use |        |        |        |        | Uso intermittente / Intermittent use |        |        |        |        |
|----------------------------------------------------------|-------------------------------|--------|--------|--------|--------|--------------------------------------|--------|--------|--------|--------|
| Diametro fili inserto (mm)<br>Insert wires diameter (mm) | Ø 0.20                        | Ø 0.25 | Ø 0.30 | Ø 0.35 | Ø 0.50 | Ø 0.20                               | Ø 0.25 | Ø 0.30 | Ø 0.35 | Ø 0.50 |
| <b>S</b> (Pt Rh 10% - Pt)                                | 1000                          | 1100   | 1130   | 1300   | 1400   | 1090                                 | 1190   | 1220   | 1420   | 1650   |
| <b>R</b> (Pt Rh 13% - Pt)                                | 1000                          | 1100   | 1130   | 1300   | 1400   | 1090                                 | 1190   | 1220   | 1420   | 1650   |
| <b>B</b> (Pt Rh 30% - Pt Rh 6%)                          | —                             | —      | —      | —      | 1600   | —                                    | —      | —      | —      | 1770   |

**Tipo connettore**  
**Connector type**

| Singolo<br>Single | Doppio<br>Double |
|-------------------|------------------|
| <b>1</b>          | <b>2</b>         |

| Diametro filo (mm)<br>Wire diameter (mm) | Ø 0.20    | Ø 0.25    | Ø 0.30    | Ø 0.35    | Ø 0.50    |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|
|                                          | <b>20</b> | <b>25</b> | <b>30</b> | <b>35</b> | <b>50</b> |

**Tipo termocoppia**  
**Thermocouple type**

| S                | R                | B                        |
|------------------|------------------|--------------------------|
| (Pt Rh 10% - Pt) | (Pt Rh 13% - Pt) | (Pt Rh 30% - Pt Rh 6%) * |
| <b>4</b>         | <b>5</b>         | <b>6</b>                 |

\* Disponibile solo per il Ø 0.50 mm. / Available only for Ø 0.50 mm.

**T2 Guaine di protezione**  
**T2 Protection tube**

| Guaina esterna<br>Outer protection tube (D2) | C 610<br>(AL203 60%)<br>1400°C | C 610<br>(AL203 60%)<br>1400°C   | C 799<br>(AL203 99.7%)<br>1700°C |
|----------------------------------------------|--------------------------------|----------------------------------|----------------------------------|
| Guaina interna<br>Inner protection tube (D3) | C 610<br>(AL203 60%)<br>1400°C | C 799<br>(AL203 99.7%)<br>1700°C | C 799<br>(AL203 99.7%)<br>1700°C |
| Isolatore<br>Insulator (D4)                  | C 610<br>(AL203 60%)<br>1400°C | C 610<br>(AL203 60%)<br>1400°C   | C 799<br>(AL203 99.7%)<br>1700°C |
|                                              | <b>00</b>                      | <b>10</b>                        | <b>20</b>                        |

**Lunghezza Ls**  
**Length**

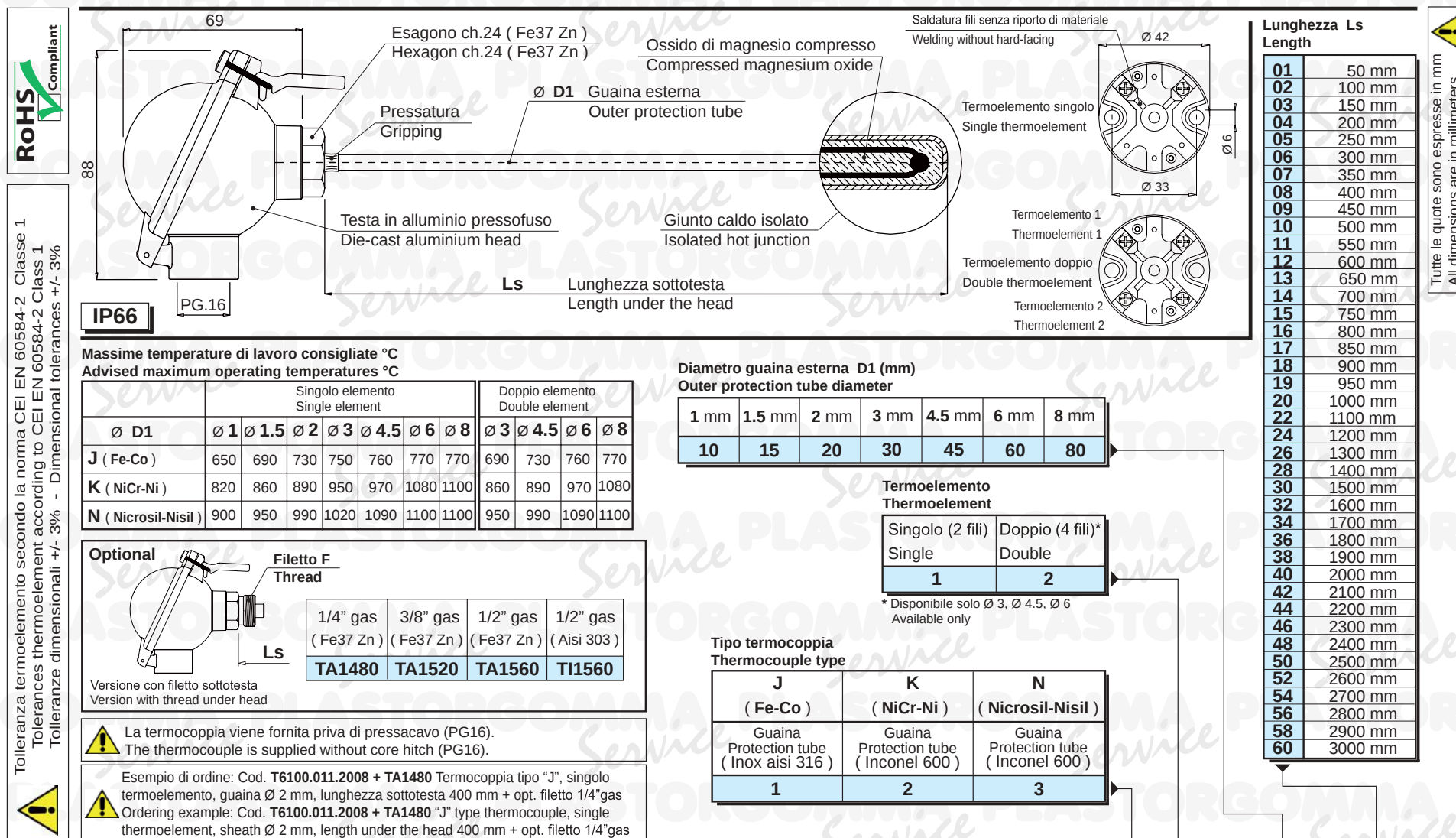
|           |         |
|-----------|---------|
| <b>03</b> | 150 mm  |
| <b>04</b> | 200 mm  |
| <b>05</b> | 250 mm  |
| <b>06</b> | 300 mm  |
| <b>07</b> | 350 mm  |
| <b>08</b> | 400 mm  |
| <b>09</b> | 450 mm  |
| <b>10</b> | 500 mm  |
| <b>11</b> | 550 mm  |
| <b>12</b> | 600 mm  |
| <b>13</b> | 650 mm  |
| <b>14</b> | 700 mm  |
| <b>15</b> | 750 mm  |
| <b>16</b> | 800 mm  |
| <b>17</b> | 850 mm  |
| <b>18</b> | 900 mm  |
| <b>19</b> | 950 mm  |
| <b>20</b> | 1000 mm |
| <b>21</b> | 1050 mm |
| <b>22</b> | 1100 mm |
| <b>23</b> | 1150 mm |
| <b>24</b> | 1200 mm |
| <b>25</b> | 1250 mm |
| <b>26</b> | 1300 mm |
| <b>27</b> | 1350 mm |
| <b>28</b> | 1400 mm |
| <b>29</b> | 1450 mm |
| <b>30</b> | 1500 mm |
| <b>31</b> | 1550 mm |
| <b>32</b> | 1600 mm |
| <b>33</b> | 1650 mm |
| <b>34</b> | 1700 mm |
| <b>35</b> | 1750 mm |
| <b>36</b> | 1800 mm |
| <b>37</b> | 1850 mm |
| <b>38</b> | 1900 mm |
| <b>39</b> | 1950 mm |
| <b>40</b> | 2000 mm |

Tutte le quote sono espresse in mm  
All dimensions are in millimeters

T 5 2 . 0 .

## Termocoppia con isolamento minerale (MgO) giunto caldo isolato e testa tipo "M"

Thermocouple with mineral insulated (MgO) and isolated hot junction and “M” head

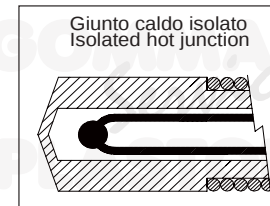
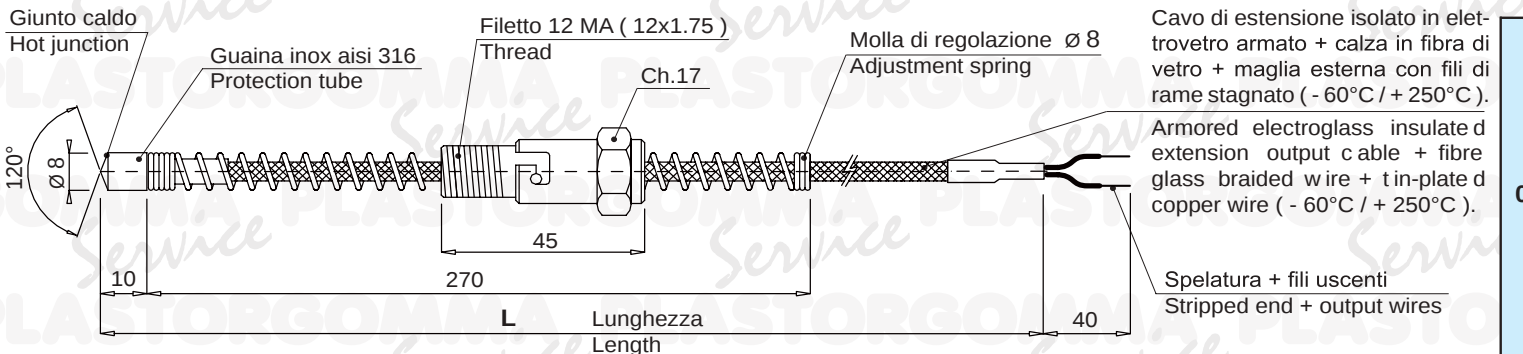


## Termocoppia "J" ( Fe - Co ) per stampo pressa

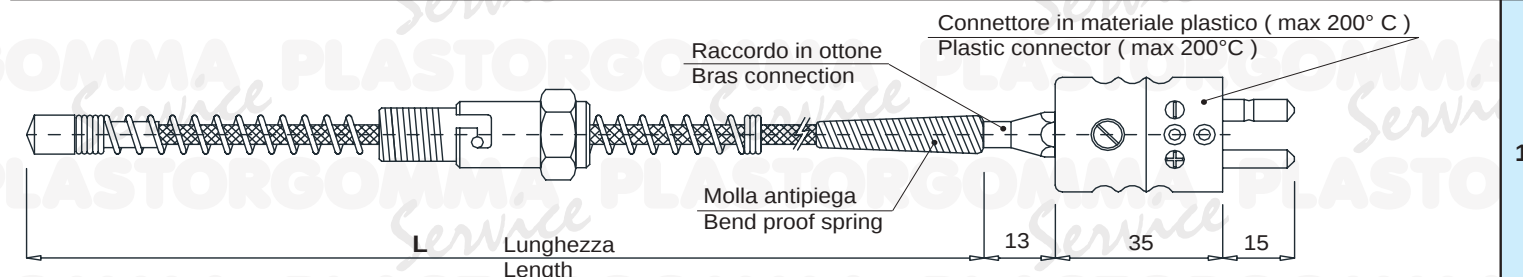
### "J" ( Fe - Co ) thermocouple for mould press



Tolleranza termoelemento secondo la norma CEI EN 60584-2 Classe 1  
Tolerances thermoelement according to CEI EN 60584-2 Class 1  
Tolleranze dimensionali +/- 3% - Dimensional tolerances +/- 3%

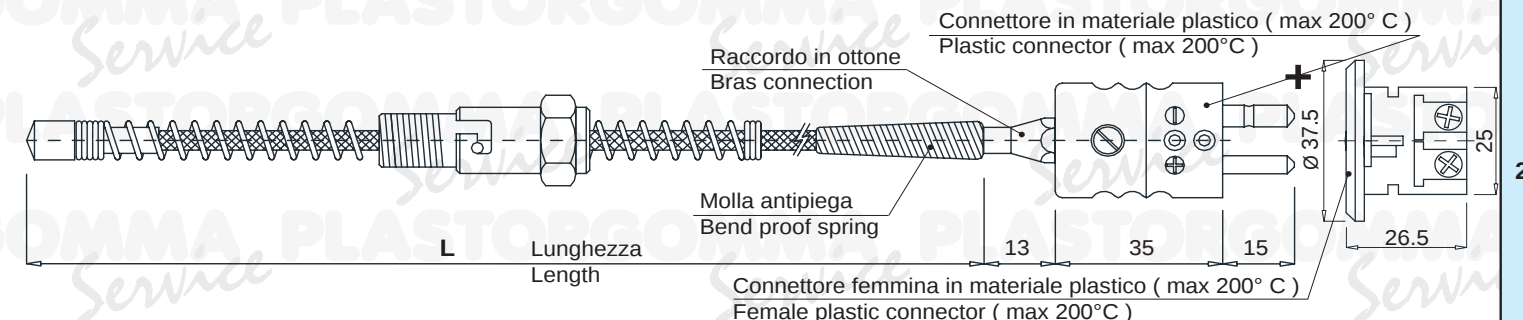


Tutte le quote sono espresse in mm  
All dimensions are in millimeters



Lunghezza L  
Length

|    |       |
|----|-------|
| 01 | 1 mt  |
| 02 | 2 mt  |
| 03 | 3 mt  |
| 04 | 4 mt  |
| 05 | 5 mt  |
| 06 | 6 mt  |
| 07 | 7 mt  |
| 08 | 8 mt  |
| 09 | 9 mt  |
| 10 | 10 mt |
| 15 | 15 mt |
| 20 | 20 mt |
| 25 | 25 mt |



La temperatura di lavoro della termocoppia è subordinata alla temperatura di lavoro del cavo utilizzato  
The operating temperature of the thermocouple is subject to the working temperature of the cable adopted

T8 8 0 .. 1 1 1

0 0