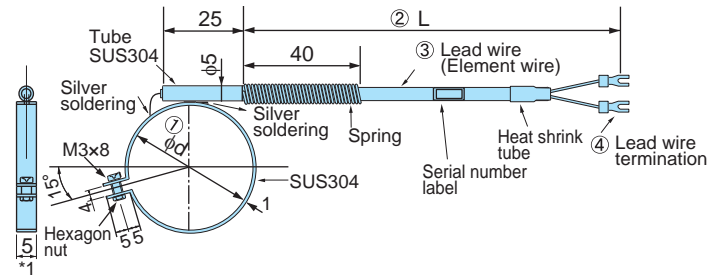


# Ring Type Thermocouples for Surface Temperature Measurement : T-250



T - 250 -  $\phi$ d - L - □□□ - □ - □  
 ① ② ③ ④ ⑤

- ① Diameter of ring
- ② Lead wire length
- ③ Lead protection
- ④ Lead wire termination
- ⑤ Thermocouple type

Example : T-250-50-2000-EXA-Y-K

| ① Diameter of ring      | Specify length by "mm" (25mm to 150mm) (Standard : $\phi$ 30, $\phi$ 35, $\phi$ 40, $\phi$ 45, $\phi$ 50, $\phi$ 55, $\phi$ 60, $\phi$ 65)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------|---------------------|----------------------------------------------------------|-------|---------------------------------------------|----------|--------------------------------------------|-------|--------------------------------------------|-------|-------------------------------------|---|------------------------------|--|--|
| ② Lead wire length      | Specify length by "mm" (500mm to 10,000mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| ③ Lead protection       | <table border="1"> <thead> <tr> <th>Code</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>EXA</td> <td>Element wire (Fiberglass with stainless steel) (0.3/7X2)</td> </tr> <tr> <td>EXB</td> <td>Element wire (Fiberglass) (0.3/7X2)</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                           | Code                | Details                                    | EXA                 | Element wire (Fiberglass with stainless steel) (0.3/7X2) | EXB   | Element wire (Fiberglass) (0.3/7X2)         |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Code                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| EXA                     | Element wire (Fiberglass with stainless steel) (0.3/7X2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| EXB                     | Element wire (Fiberglass) (0.3/7X2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| ④ Lead wire termination | <table border="1"> <thead> <tr> <th>Code</th> <th>Details</th> <th>Code</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Spade lugs for JIS standard "M3" size screw</td> <td>TE*1</td> <td>Thermocouple connector (CSP01+CLP-A+CSP02)</td> </tr> <tr> <td>R</td> <td>Ring lugs for JIS standard "M4" size screw</td> <td>N</td> <td>No terminal lugs *terminal soldered</td> </tr> <tr> <td>M</td> <td>Metal connector (SCK-1602-P)</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">*1 : Other thermocouple connector : See Page 10<br/>         *See Page 7</p> | Code                | Details                                    | Code                | Details                                                  | Y     | Spade lugs for JIS standard "M3" size screw | TE*1     | Thermocouple connector (CSP01+CLP-A+CSP02) | R     | Ring lugs for JIS standard "M4" size screw | N     | No terminal lugs *terminal soldered | M | Metal connector (SCK-1602-P) |  |  |
| Code                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Code                | Details                                    |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Y                       | Spade lugs for JIS standard "M3" size screw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TE*1                | Thermocouple connector (CSP01+CLP-A+CSP02) |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| R                       | Ring lugs for JIS standard "M4" size screw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N                   | No terminal lugs *terminal soldered        |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| M                       | Metal connector (SCK-1602-P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| ⑤ Thermocouple type     | <table border="1"> <thead> <tr> <th>Code</th> <th>Details</th> <th>Code</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>Type K (Chromel-Alumel)</td> <td>T</td> <td>Type T (Copper-Constantan)</td> </tr> <tr> <td>J</td> <td>Type J (Iron-Constantan)</td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                         | Code                | Details                                    | Code                | Details                                                  | K     | Type K (Chromel-Alumel)                     | T        | Type T (Copper-Constantan)                 | J     | Type J (Iron-Constantan)                   |       |                                     |   |                              |  |  |
| Code                    | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Code                | Details                                    |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| K                       | Type K (Chromel-Alumel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T                   | Type T (Copper-Constantan)                 |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| J                       | Type J (Iron-Constantan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Specifications          | <p>Class : class 2                      * Class 1 is available (Please specify when you order)</p> <p>Element : Single element</p> <p>Measuring junction : Grounded</p> <p>Maximum temperature for use</p> <table border="1"> <thead> <tr> <th>Thermocouple type</th> <th>Operating temperature for regular use</th> <th>Maximum temperature</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>300°C</td> <td>400°C</td> </tr> <tr> <td>J</td> <td>300°C</td> <td>400°C</td> </tr> <tr> <td>T</td> <td>200°C</td> <td>250°C</td> </tr> </tbody> </table>                                                           | Thermocouple type   | Operating temperature for regular use      | Maximum temperature | K                                                        | 300°C | 400°C                                       | J        | 300°C                                      | 400°C | T                                          | 200°C | 250°C                               |   |                              |  |  |
| Thermocouple type       | Operating temperature for regular use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Maximum temperature |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| K                       | 300°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 400°C               |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| J                       | 300°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 400°C               |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| T                       | 200°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250°C               |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Reference               | <p>*1 : Ring width 7mm or 10mm are also available</p> <table border="1"> <thead> <tr> <th>*1</th> <th>Width of Ring</th> <th>Lock screw size</th> </tr> </thead> <tbody> <tr> <td>Standard</td> <td>5mm</td> <td>M3X8</td> </tr> <tr> <td rowspan="2">Optional</td> <td>7mm</td> <td>M4X8</td> </tr> <tr> <td>10mm</td> <td>M4X8</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                    | *1                  | Width of Ring                              | Lock screw size     | Standard                                                 | 5mm   | M3X8                                        | Optional | 7mm                                        | M4X8  | 10mm                                       | M4X8  |                                     |   |                              |  |  |
| *1                      | Width of Ring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lock screw size     |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Standard                | 5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M3X8                |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
| Optional                | 7mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | M4X8                |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |
|                         | 10mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M4X8                |                                            |                     |                                                          |       |                                             |          |                                            |       |                                            |       |                                     |   |                              |  |  |