

## Exposed-lead Models with Screw

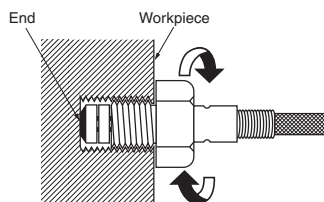
### Specifications

<b>Element type</b>	K (CA), J (IC)
<b>Element dia.</b>	0.65 mm (single wire)
<b>Class</b>	Class 2 (0.75)
<b>Protective tubing material</b>	SUS304
<b>Thermal contact</b>	Grounded type
<b>Temperature range</b>	0°C to 400°C: K (CA) 0°C to 350°C: J (IC)
<b>Lead wire</b>	Fully glass-wool-covered with external copper shield and external dimensions of approx. 3.1 x 2.0 1/0.65 0°C to 180°C
<b>Terminal shape</b>	Y-type crimp terminal for M3.5

- Note:**
1. The thermocouple is a single wire from the tip to the terminal.
  2. Specify the type of screw (i.e., M6, M8, or W1/4) when ordering.
  3. The thermocouple is not of airtight construction.
  4. OMRON recommends that the tip of the thermocouple is touching the sensing object.

### Installation Example

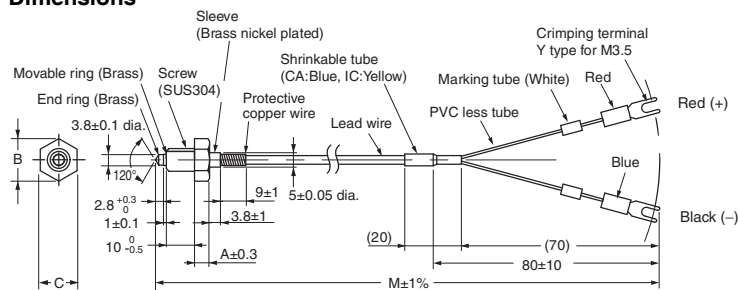
Cut a thread into the workpiece, and screw in the thermocouple while pushing in so that the tip makes complete contact.



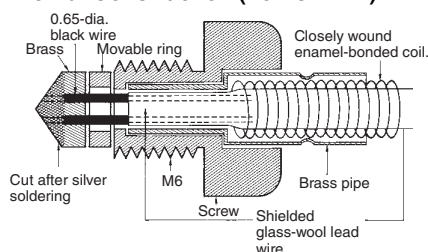
**Note:** E52-CA1DY with the same shape and multiple element wires are also available (E52-CA1DY-40). Refer to page 34 for details.

### E52-CA1DY, E52-IC1DY

#### Dimensions



#### Internal Construction (E52-CA1DY)



Lead wire length (m)	Screw		
	W1/4 (P=1.27)	M6 (P=1.0)	M8 (P=1.25)
A (mm)	4.3	4	5.3
B (mm)	11.5	11.5	15
C (mm)	10	10	13

Protective tubing length (mm)	Lead wire length (m)	Element type: K (CA)	Element type: J (IC)
		Model	
M6 screw	1	E52-CA1DY M6 1M	E52-IC1DY M6 1M
	2	E52-CA1DY M6 2M	E52-IC1DY M6 2M
	4	E52-CA1DY M6 4M	E52-IC1DY M6 4M
	8	E52-CA1DY M6 8M	---
M8 screw	1	E52-CA1DY M8 1M	E52-IC1DY M8 1M
	2	E52-CA1DY M8 2M	E52-IC1DY M8 2M
	4	E52-CA1DY M8 4M	E52-IC1DY M8 4M
	8	E52-CA1DY M8 8M	---
W1/4 screw	1	E52-CA1DY W1/4 1M	E52-IC1DY W1/4 1M
	2	E52-CA1DY W1/4 2M	E52-IC1DY W1/4 2M
	4	E52-CA1DY W1/4 4M	E52-IC1DY W1/4 4M
	8	E52-CA1DY W1/4 8M	---