NTC Type JI/JIC
Waterproof IP68 Temperature Sensor
Overmolded NTC Thermistor

**Type JI:** The NTC thermistor is molded onto a flexible circular cable. The tip and outer cable insulation material is thermoplastic elastomer rubber. The tinned copper conductors have individual polypropylene insulation.

**Features**
- Waterproof to IP68
- Withstands freeze/thaw cycling
- Range of wire lengths 300 mm to 5000 mm (11.8 in to 16.4 ft)
- Halogen-free cable
- Sensor tip and extension cable molded together as one hot vulcanised unit
- RoHS compliant

**Type JIC:** The NTC thermistor is molded onto a flexible circular cable housed in stainless steel. The tip and outer cable insulation material is thermoplastic elastomer rubber. The tinned copper conductors have individual polypropylene insulation.

**Applications**
- Ventilation
- Refrigeration
- Heat pumps
- Water heaters
- Weather stations
- Outdoor temperature measurement
- Under-floor heating
- Fish tanks
- Evaporators

**Options**
- Other resistance - temperature characteristics
- Other wire lengths
- Other housing lengths

Amphenol
Advanced Sensors
## NTC Type JI/JIC Specifications

### Temperature Range:
-50°C to +105°C (-58°F to 221°F) continuous (125°C/257°F up to maximum 6 hours)

### Dielectric Strength:
3750V AC

### Insulation Resistance:
>100MΩ at 1000V DC

### Cable Type:
2 x 0.30 mm² (23 AWG)

### Wire Conductors:
7 x 0.23 mm diameter (0.30 mm²)

### Ordering Information
Resistance characteristics and wire length are specified by the product code as per the table below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Assembly Type</th>
<th>Thermistor Type</th>
<th>Wire Length mm (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JI</td>
<td>Double-insulated sensor with rubber tip</td>
<td>NK103C1R2</td>
<td>L301 300 (11.8) ± 10 (0.4)</td>
</tr>
<tr>
<td>JIC</td>
<td>Double-insulated sensor with Stainless Steel housing</td>
<td>DC95F103WN</td>
<td>L102 1000 (39.4) ± 20 (0.8)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>L252 2500 (98.4) ± 50 (2.0)</td>
</tr>
</tbody>
</table>

Typical Model Number

For complete RVT Table, refer to document AAS-913-318.

### NTC Type JI - Dimensions

### NTC Type JIC - Dimensions