



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

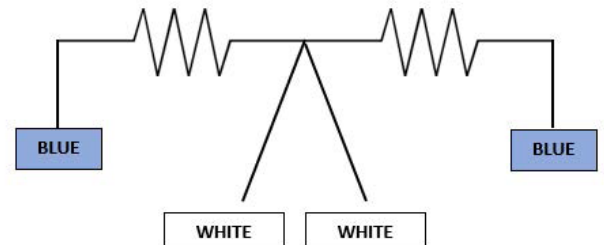
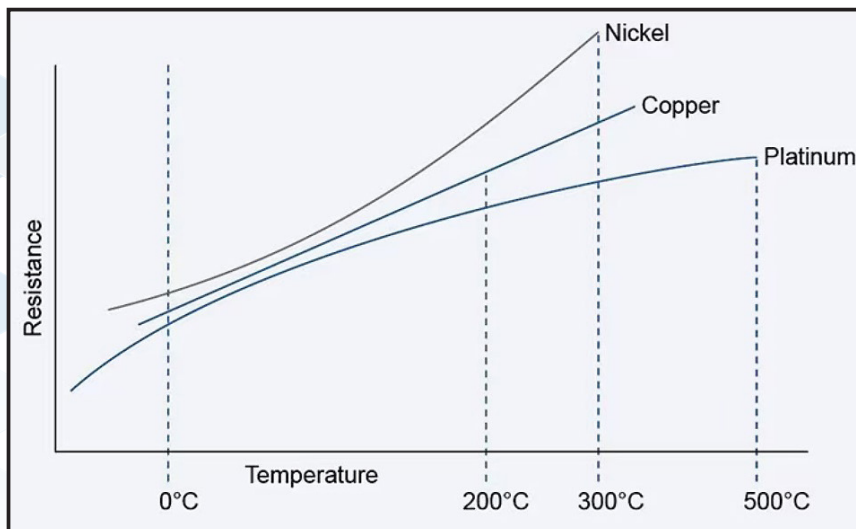
GTH - Resistance Temperature Detectors (RTDs)

The Gund Company's embedded RTD sensors for turbo and hydro generators are used as part of the long-time industry accepted practice, allowing for continuous assessment of equipment condition. The GTH - Resistance Temperature Detectors (RTDs) are placed in the stator winding slots. The RTDs are produced and tested per the IEC 60751.

The longer length of the GTH-RTD sensors element designs allows for averaging the measurement process over a greater portion of the slot length. This eliminates the problems related to tip sensitive sensors that can be misleading when 'hot spots' are present. Since stator RTD sensors sometimes exceed 20 inches in body length, this is a useful characteristic the RTD brings to monitoring the health of your generator.

| Part ID | Dimensions | Rating | Element | Resistance | Number of Elements | Lead Wire Length | Number of Wires | Lead Wire Gauge | Lead Wire Coating |
|-------------------------------|------------------------|---------|----------|--------------------------------|--------------------|------------------|-----------------|-----------------|-------------------|
| RTD2A4570.76213.46P41239522RT | 18"L x 0.530W x 0.030T | Class H | Platinum | 100 Ω m \pm 0.5% @ 0C | 2 | 40 ft | 4 | 22 AWG | PTFE/ Shielded |

| Element Type | Base Resistance | TCR (Ohm/Ohm/C) |
|--------------|-----------------|-----------------|
| Platinum | 100 | 0.00385 |
| Nickel | 120 | 0.00672 |
| Copper | 10 | 0.00427 |



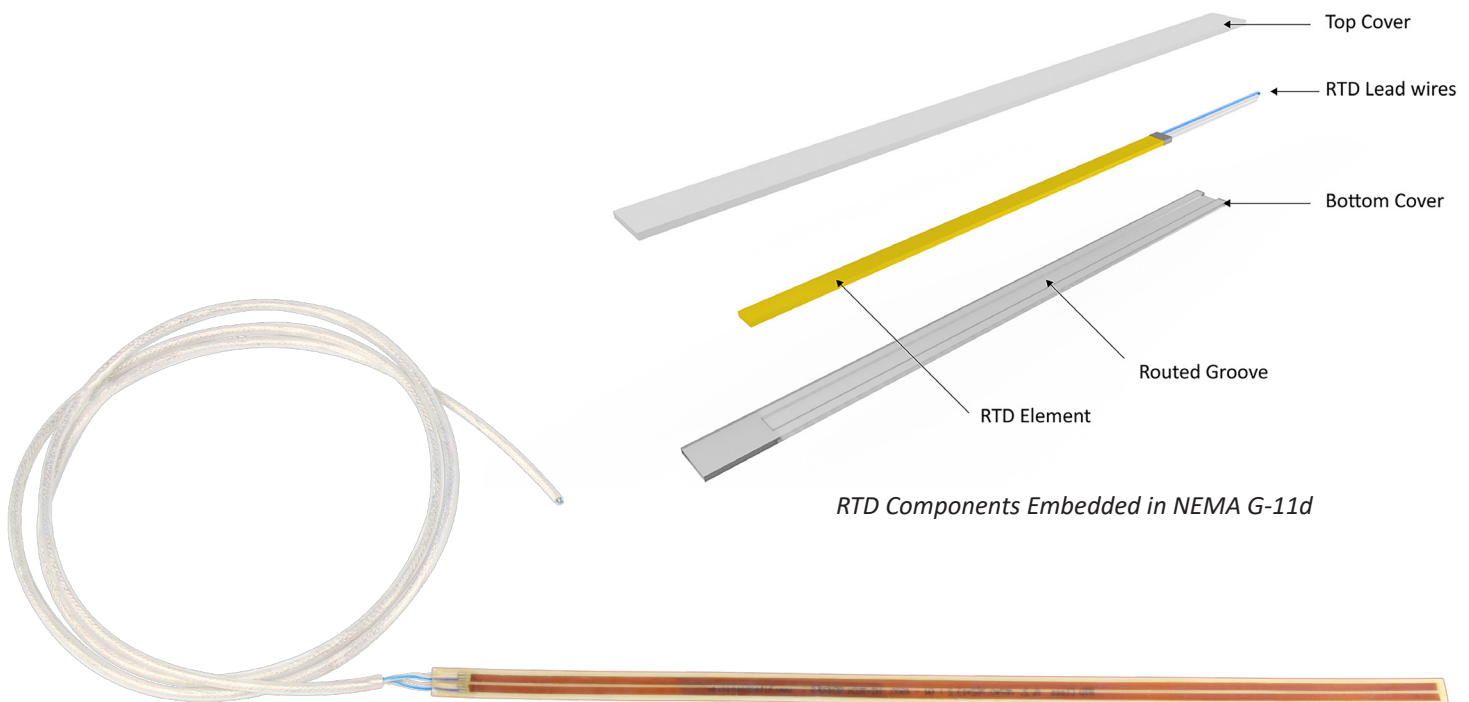


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Enclosure types include G-11 and Semi-Conductive rigid enclosure of the elements.



RTD Components Embedded in NEMA G-11d

RTD Embedding Materials

The RTD can be embedded in either NEMA G-11 or The Gund Company's Semi-Conductive materials up to 109 inches for installation into the stator of your application. NEMA G-11 provides a mechanical protection for the RTD during the installation phase and protects the RTD throughout its life span. The Semi-Conductive material provides the same mechanical protection with the added benefit of corona dissipation.

RTD Testing

RTDs can be tested upon request up-to 3000 V_{RMS} @60Hz for 1 minute between lead wire and enclosure body.

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.