Mencom, the industry leader in Panel Interface Connectors, has well over 3,000 designs in production that provide safety, convenience and flexibility for programmers and problem solvers. Also we have a team of engineers with decades of experience. Combined with a progressive manufacturing facility, we are not only ready to provide a solution but also able to assist challenging connectivity issues from small changes to custom terminations & assemblies with affordable costs and fast turnaround.

**National Pipe Tapered (NPT) Threads**

NPT threads are used in pipes and plumbing systems. They are characterized by a taper angle of 15° and are designed to create a self-sealing joint when used with a pipe joint compound. The threads are cut in both the male and female threads, and the thread profile is thread crest/ root.

**Metric Threads**

International Organization for Standardization (ISO) and Panzer Gewinde (also Panzer-Rohr-Gewinde) are the thread fittings each other, as opposed to straight flanks of the threads compress against each other, as opposed to straight flanks of the threads compress against.

**PG Threads**

PG threads are used in panel interface connectors and are characterized by a taper angle of 80°. The threads are cut in both the male and female threads, and the thread profile is thread crest/ root.

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### THREAD TYPES COMPARISON FOR CABLE GLANDS

#### NPT vs Metric vs PG

<table>
<thead>
<tr>
<th>NPT Threads</th>
<th>Metric Threads</th>
<th>PG Threads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male thread</td>
<td>Female thread</td>
<td>Male thread</td>
</tr>
<tr>
<td>Depth of thread (inch)</td>
<td>Depth of thread (inch)</td>
<td>Depth of thread (inch)</td>
</tr>
<tr>
<td>2&quot; 11/4</td>
<td>2&quot; 1.25</td>
<td>2&quot; 1.4</td>
</tr>
<tr>
<td>1.5&quot; 11/4</td>
<td>1&quot; 1.25</td>
<td>1.5&quot; 1.4</td>
</tr>
<tr>
<td>1&quot; 11/4</td>
<td>0.75&quot; 1.25</td>
<td>1&quot; 1.4</td>
</tr>
<tr>
<td>0.75&quot; 11/4</td>
<td>0.5&quot; 1.25</td>
<td>0.75&quot; 1.4</td>
</tr>
<tr>
<td>0.5&quot; 11/4</td>
<td>0.375&quot; 1.25</td>
<td>0.5&quot; 1.4</td>
</tr>
</tbody>
</table>

### Details of Table:

- **NPT Threads**: Male and female threads are both thread crest/ root.
- **Metric Threads**: Male and female threads are both pitch diameter.
- **PG Threads**: Male and female threads are both pitch diameter/ crest.

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For more information, visit MENCOM.COM

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**Basics of Thread**

- **Thread Size**: The size of the thread is determined by the major diameter of the thread.
- **Pitch Diameter**: The pitch diameter is the diameter of the thread measured at an angle of 45° from the crest or root of the thread.
- **Minor Diameter**: The minor diameter is the diameter of the thread measured at the root of the thread.

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**SOURCES**