**Features & Benefits:**

- Liquid Tight - submersible to 300 ft. - NEMA 4x & 6 (IP 68 / IP 69K)
- Highest pressure rating - Patented form seal meets 150 PSIG (10 bar)
- Flame protected - V0 rated according to UL 94
- Halogen- and Phosphorous free materials
- Safety - Ratchet to prevent Dome from coming loose under vibration
- Large selection - Cable Range from .08” (2 mm) to 3.54” (90 mm)
- Non-Corrosive - Resistant to salt water, weak acids, weak alkalis, alcohol, esters, ketones, ether, gasoline, mineral, animal & vegetable oil.
- Durable - Rugged Construction
- Environmentally compliant - RoHS & Deca BDE

---

**Pull-out Resistance & Cable Protection**

Overlapping clamping splines apply a concentric force, thereby preventing the form seal from being pulled out of the fitting. This ensures pull-out protection without damage to the cable.

**Submersible**

The patented internal sealing edge results in a superior seal between the splined Nylon clamping insert and Nickel Plated Brass body.

**Unique Product**

The patented recess and high performance seal guarantees NEMA 4x & 6 (IP 68 / IP 69K) at 150 PSIG (10 bar).

**Liquid Tight**

Molded O-Ring Groove: All of our Nickel Plated Brass parts come with an O-Ring, which makes your application liquid tight, allowing submersion up to 300 ft.

**Easy Installation**

The anti-rotation grooves prevent cable rotation while tightening the nut.

---

**Standard, Reduced and Multi-Hole Inserts**

Modularity: increase and decrease cable opening by swapping out inserts to accommodate various cable sizes & configurations.

**Flex Nut**

The Stainless Steel spring extension offers superior protection against kinking and chafing of the cable.

---

**Your One Stop Solution For All Cable & Wire Accessories!**
### Nickel Plated Brass Liquid Tight Strain Relief Fittings

**Standard - PG/NPT/Metric Threads**

**Dimensions and specifications may be changed without prior notice.**

For Material Specifications please refer to page 45.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Cable Range</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>See page 49 for thread specs</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clearance Hole + .01” (+.25 mm)</td>
<td>Body Length (Dome)</td>
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<tr>
<td>CD07AA-BR</td>
<td>CF07AA-BR</td>
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<td>PG 7</td>
</tr>
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<td>CD07AR-BR</td>
<td>CF07AR-BR</td>
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<td>PG 9</td>
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<td>CD09AA-BR</td>
<td>CF09AA-BR</td>
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<td>PG 11</td>
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<td>CF09AR-BR</td>
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<td>PG 13</td>
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<td>PG 21</td>
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<td>PG 29</td>
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<td>PG 36</td>
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<td>.39 - .55 (10 - 14)</td>
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<td>PG 48</td>
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<td>CF21AA-BR</td>
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<tr>
<td>CD29AA-BR</td>
<td>-</td>
<td>.71 - .98 (18 - 25)</td>
<td>CD11AA-BR</td>
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<td>-</td>
<td>.51 - .79 (13 - 20)</td>
<td>CD13AA-BR</td>
</tr>
<tr>
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<td>-</td>
<td>.87 - 1.26 (22 - 32)</td>
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<td>CD36AR-BR</td>
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<td>.79 - 1.02 (20 - 26)</td>
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<td>CD42AA-BR</td>
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<td>CD42AR-BR</td>
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<td>.98 - 1.22 (25 - 31)</td>
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<td>CD48AA-BR</td>
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<td>-</td>
<td>1.14 - 1.38 (29 - 35)</td>
<td>CD36AA-BR</td>
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<td>CD36AR-BR</td>
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<td>CD49AR-BR</td>
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<td>.51 - .79 (13 - 20)</td>
<td>CD42AA-BR</td>
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<td>CD59AA-BR</td>
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<td>CD59AR-BR</td>
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<td>CD69AA-BR</td>
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<td>CD99AA-BR</td>
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<td>.51 - .79 (13 - 20)</td>
<td>CD79AR-BR</td>
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</table>

**Note:** CSA Approval only applies to Dome Fittings. VDE Approval only applies to Fittings with Metric Thread.

Optional Locking Nuts & Other Accessories starting at page 28.
Mini WADI Fittings solve space restriction issues. These mini components will fit into tight areas, but maintain the quality of their larger counterparts. A Buna-N or Viton® O-Ring creates a reliable seal between body and housing.

**Typical Mini Applications:**
- Fiber optics
- Sensors
- Cameras
- Switches
- Small appliances

---

**Mini WADI**

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Cable Range</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
<th>Wrench Flats</th>
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</thead>
<tbody>
<tr>
<td>CD07AW-BR</td>
<td>-</td>
<td>.08 - .18 (2 - 4.5)</td>
<td>PG 7</td>
<td>.56 (14.3)</td>
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<tr>
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<td>CD06MW-RV</td>
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<td>CD08MW-RV</td>
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<td>CD10MW-BR</td>
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<td>.16 - .24 (4 - 6)</td>
<td>M10 x 1.5</td>
<td>.39 (10)</td>
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---

**Locknuts for Mini WADI**

<table>
<thead>
<tr>
<th>Part Numbers</th>
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<tr>
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<td>NM-08-BR</td>
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<td>NM-10-BR</td>
<td>M10 x 1.5</td>
<td>.11 (2.8)</td>
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</tbody>
</table>

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**Typical XL Applications:**
- Machine & Apparatus
- Automation
- Railroads
- Ship Building
- Off-shore
- Renewable Energy
- Utilities
- Nuclear Power

---

**Silicone or Viton® Inserts & O-Rings for WADI XL Fittings are available on request.** For inquiries - please call our Inside Technical Sales Department (800-456-9012 or 303-699-1135).
## Nickel Plated Brass Liquid Tight Strain Relief Fittings
### Elongated - PG & Metric Threads

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Cable Range</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clearance Hole</td>
<td>Body Length (Dome)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+ .01” (+ .25 mm)</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Dome Fittings</th>
<th>Flex Fittings</th>
<th>In (mm)</th>
<th>Inches (mm)</th>
<th>PG 7</th>
<th>.49 (12.5)</th>
<th>.75 (19)</th>
<th>2.17 (55)</th>
<th>.39 (10)</th>
<th>.55 (14)</th>
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<tr>
<td>CD07CA-BR</td>
<td>CF07CA-BR</td>
<td>.12 - .26 (3 - 6.5)</td>
<td>.87 (22)</td>
<td>2.60 (66)</td>
<td>.39 (10)</td>
<td>.67 (17)</td>
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<td>CD09CA-BR</td>
<td>CF09CA-BR</td>
<td>.16 - .31 (4 - 8)</td>
<td>.83 (21)</td>
<td>3.03 (77)</td>
<td>.39 (10)</td>
<td>.79 (20)</td>
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<td>CD11CA-BR</td>
<td>CF11CA-BR</td>
<td>.20 - .39 (5 - 10)</td>
<td>.87 (22)</td>
<td>3.03 (77)</td>
<td>.39 (10)</td>
<td>.79 (20)</td>
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<td></td>
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<td>CD13CA-BR</td>
<td>CF13CA-BR</td>
<td>.24 - .47 (6 - 12)</td>
<td>.87 (22)</td>
<td>3.03 (77)</td>
<td>.39 (10)</td>
<td>.79 (20)</td>
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<td>CD17CA-BR</td>
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<td>.79 (20)</td>
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<td>.79 (20)</td>
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<tr>
<td>CD21CA-BR</td>
<td>CF21CA-BR</td>
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<td>.87 (22)</td>
<td>3.03 (77)</td>
<td>.39 (10)</td>
<td>.79 (20)</td>
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<tr>
<td>CD23CA-BR</td>
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<td>3.03 (77)</td>
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<tr>
<td>CD25CA-BR</td>
<td>CF25CA-BR</td>
<td>.48 - 1.40 (12 - 35)</td>
<td>.87 (22)</td>
<td>3.03 (77)</td>
<td>.39 (10)</td>
<td>.79 (20)</td>
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<tr>
<td>CD27CA-BR</td>
<td>CF27CA-BR</td>
<td>.52 - 1.60 (13 - 40)</td>
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<td>.79 (20)</td>
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<tr>
<td>CD29CA-BR</td>
<td>CF29CA-BR</td>
<td>.56 - 1.80 (14 - 45)</td>
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<tr>
<td>CD31CA-BR</td>
<td>CF31CA-BR</td>
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<td>CD33CA-BR</td>
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<td>.79 (20)</td>
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<td>.79 (20)</td>
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<td>.79 (20)</td>
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<td>.79 (20)</td>
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</tr>
</tbody>
</table>

**Elongated is recommended where the Strain Relief has to pass through a thick wall or the application just needs the extra thread length.**

Optional Locking Nuts, O-Rings & other Accessories starting at page 28.

---

*Note: VDE Approval only applies to Fittings with Metric Thread.*
**Nickel Plated Brass Liquid Tight Strain Relief Fittings**

**90° Snap Elbow - PG & Metric Threads / Flange**

*Note: VDE Approval only applies to Fittings with Metric Thread.*

---

### Clamp High Performance - PG/NPT/Metric Threads

**Dimensions in Inches (mm)**

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Cable Range</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Clearance Hole</td>
</tr>
</tbody>
</table>

#### Clamp Fittings

- **Standard Thread**
- **Elongated Thread**

---

**Robust - Compact - Low profile!**

Secure your connection today with these flange or threaded Snap Elbows. Saving on Space and Time during installation.

Quick & Easy Installation: Insert cable into open Elbow, Snap closed, tighten dome nut for a liquid tight connection. - Done!

---

**Nickel Plated Brass Liquid Tight Strain Relief Fittings**

---

*For Material Specifications please refer to page 45.*
EMI (Electromagnetic Interference) / RFI (Radio Frequency Interference) is an unwanted disturbance that affects an electrical circuit due to either electromagnetic conduction or electromagnetic radiation emitted from an external source. The disturbance may interrupt, obstruct, or otherwise limit the effective performance of the circuit.

These Liquid Tight EMI / RFI - Proof Grounded Strain Relief Fittings made of Nickel Plated Brass are the perfect answer to stringent requirements for reliable grounding and protection from electromagnetic interference.

Two styles are available: Standard and Feed-Through.

**Standard (-BE)**

The Standard version has an integral O-ring, which presses the braiding against the inside wall of the body but can only be used with braided shield.

Overlapping clamping splines apply a concentric force, thereby preventing the form seal from being pulled out of the fitting. This ensures pull-out protection without damage to the cable.

The patented internal sealing edge results in a superior seal between the splined Nylon clamping insert and Nickel Plated Brass body.

Patented 360° grounding due to the internal O-Ring, which ensures perfect contact between braided shield of cable and fitting.

**Feed-Through works well with braided or foil shield and provides reliable grounding by means of metal spring fingers.**

**Feed-Through (-FE)**

Overlapping clamping splines apply a concentric force, thereby preventing the form seal from being pulled out of the fitting. This ensures pull-out protection without damage to the cable.

Metal-coated spline insert provides electrical conductivity.

Flexible contact points allow contact with variable braid and foil diameters and add additional strain relief to a solution.

For Material Specifications please refer to page 45.
Nickel Plated Brass Liquid Tight Strain Relief Fittings

EMI/RFI Proof - Applications & Assembly

- Halogen and Phosphorous-Free
- Fire Protection Class V0 According to UL 94
- Liquid Tight per NEMA 4x & 6 to 150 PSIG (IP 68 to 10 bar)
- Quick Assembly and Reliable Grounding of Braid or Foil Shielded Cables

EMI/RFI Proof Strain Relief Fittings in all popular thread types and sizes are used in the following areas:

- Telecommunication
- Control panels
- Measuring, control and feedback systems
- Traffic, etc.

Also used in all areas where in addition to a reliable liquid tight seal, high pull-out resistance and anti-rotation provisions, a dependable contact with the cable shield is required.

To ensure a good ground connection between the Cord Grip and a Metal Enclosure, we strongly recommend the use of EMI/RFI Locking Nuts (Page 29) for non-threaded mounting.

These Locking Nuts have cutting edges which will slice through paint and coatings into the metal of the enclosure to ensure grounding. (see page 29)

### Assembly Instructions

<table>
<thead>
<tr>
<th>Standard (-BE)</th>
<th>Feed-Through (-FE)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Step 1</strong></td>
<td><strong>Option 1</strong> - Partial Jacket Stripping:</td>
</tr>
<tr>
<td>• Strip cable</td>
<td>• Expose shield approximately 7/16&quot; (10 mm)</td>
</tr>
<tr>
<td>• Expose braided shield</td>
<td>• Insert cable into fitting until the braid or foil reaches the contact position</td>
</tr>
<tr>
<td></td>
<td>• Tighten the dome nut</td>
</tr>
<tr>
<td></td>
<td>• Finished</td>
</tr>
<tr>
<td><strong>Option 2</strong></td>
<td><strong>Option 2</strong> - Total Jacket Removed:</td>
</tr>
<tr>
<td>• Feed cable through dome nut &amp; clamping insert</td>
<td>• Remove cable jacket to expose the braid or foil</td>
</tr>
<tr>
<td>• Fold braided shield back over O-Ring on clamping insert</td>
<td>• Insert cable into fitting until the braid reaches the contact point</td>
</tr>
<tr>
<td>• Make sure that braided shield overlaps the O-ring by 3/32&quot; (2 mm) only</td>
<td>• Tighten the dome nut</td>
</tr>
<tr>
<td></td>
<td>• Finished</td>
</tr>
<tr>
<td><strong>Option 3</strong></td>
<td><strong>Option 3</strong> - Fold Shield over Jacket:</td>
</tr>
<tr>
<td>• Push clamping insert into body</td>
<td>• Strip cable jacket &amp; braiding to different lengths</td>
</tr>
<tr>
<td>• Tighten dome nut</td>
<td>• For smaller cable diameters fold the braided shield back over the cable jacket</td>
</tr>
<tr>
<td>• Finished</td>
<td>• Insert cable into fitting until the braid reaches the contact point</td>
</tr>
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<td></td>
<td>• Tighten the dome nut</td>
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<tr>
<td></td>
<td>• Finished</td>
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Questions or concerns? - Please call our well-trained Inside Technical Sales Department (800-456-9012 or 303-699-1135).

For Material Specifications please refer to page 45.
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<td>3/4&quot; NPT</td>
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*Note: VDE Approval only applies to Fittings with Metric Thread. UL, UR & CSA Approval applies to Dome Fittings.

EMI/RFI Fittings are also available with High Performance Clamp or in Stainless Steel. For inquiries, please call our Inside Technical Sales Department (800-456-9012 or 303-699-1135).

Dome Fittings also available with the following approvals:

- ATEX
- RoHS
- Deca BDE

For Material Specifications please refer to page 45.
### Nickel Plated Brass Liquid Tight Strain Relief Fittings

**EMI/RFI Proof - Grounded: Feed-Through Version (-FE)**

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Cable Range</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
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<td>PG 11</td>
<td>.73 (18.5)</td>
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<td>.80 (20.3)</td>
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<td>.88 (22.3)</td>
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<td>1.12 (28.4)</td>
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</tbody>
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**Feed-Through products are Quick, Reliable & Labor saving!**

**Partial Jacket Stripping**

**Total Jacket Removal**

**Fold Shield Over Jacket**

Use our recommended EMI Locking Nuts with cutting edges which will cut through paint to ensure proper grounding. (see page 29)

For Material Specifications please refer to page 45.
### Nickel Plated Brass Liquid Tight Strain Relief Fittings

#### Multi-Hole - PG Threads

#### Dimensions and Specifications

- Nickel Plated Brass Liquid Tight Strain Relief Fittings
- Dimensions and specifications may be changed without prior notice.
- For Material Specifications please refer to page 45.

#### Part Numbers

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Thread Type &amp; Size</th>
<th>Dimensions in Inches (mm)</th>
<th>Part Numbers of Inserts only</th>
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*Note: This Insert has slotted holes.

For specifications and dimensions see page 14 where the appropriate Fittings are listed.

- Optional Locking Nuts & Other Accessories starting at page 28.

- Dome Fittings also available with the following approvals:
  - 700V / 1/4” NPT
  - 700V / 1/4” NPT

- Viton® is a federally registered trademark of DuPont Dow Elastomer.

Dimensions and specifications may be changed without prior notice.
Multi-Hole - NPT Threads

For specifications and dimensions see page 14 where the appropriate Fittings are listed.

Optional Locking Nuts & Other Accessories starting at page 28.

Multi-Hole Inserts are available in Silicone and Viton® on request. 
Viton® is a federally registered trademark of DuPont Dow Elastomer.

Dome Fittings also available with the following approvals:

Custom Solutions!

Any special insert hole or profile configuration is available for a 1-time set-up fee & a minimum order of 1,000 pieces. For small quantities we suggest drilling or machining the inserts yourself, following these guidelines:

- We suggest drilling the frozen solid Insert.
- Drill holes by using a standard high-speed steel drill bit of the proper size at approx. 2500 RPM.
- Drill holes with insert installed in Strain Relief Fitting as a fixture.
- Keep a distance of min. 1 mm (.04 in) between holes.
- The outside holes can be located right against the lip of the strain relief body, as sufficient insert material remains between the hole and the body wall due to the design of the cord grip.

Important:

Design Parameters: Cable diameter should not be less than 80% of hole diameter and the difference between hole and cable diameter should never exceed .04" (1 mm). The Multi Cable fittings will meet NEMA 4x = IP65 if the design parameters are complied with.

To verify a submersible NEMA 6= IP68 application, the final assembly of cables and fittings must be tested by the customer or submitted at the customer’s expense to an independent test lab.

For Material Specifications please refer to page 45.
### Nickel Plated Brass Liquid Tight Strain Relief Fittings

#### Multi-Hole - Metric Threads

<table>
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How to feed a cable assembly with plug through a strain relief fitting:

1. Determine largest dimension of the plug.
2. Choose Strain Relief with appropriate Dome opening (see table on page 48).
3. Drill solid insert to exact cable diameter & slice insert on one side only.
4. Assemble by feeding Connector first through dome nut and Strain Relief body, snap insert over cable and insert into body, tighten dome nut. Done.
5. This applies to PG, NPT or Metric solutions.

For specifications and dimensions see page 14 where the appropriate Fittings are listed.

Optional Locking Nuts & Other Accessories starting at page 28.

Dome Fittings also available with the following approvals:

*Note: This Insert has slotted holes.