

| Revisions |            |                 |
|-----------|------------|-----------------|
| Issue     | Date       | Note            |
| 3         | 19/05/2025 | See GTXPDC/1092 |



1. Mechanical

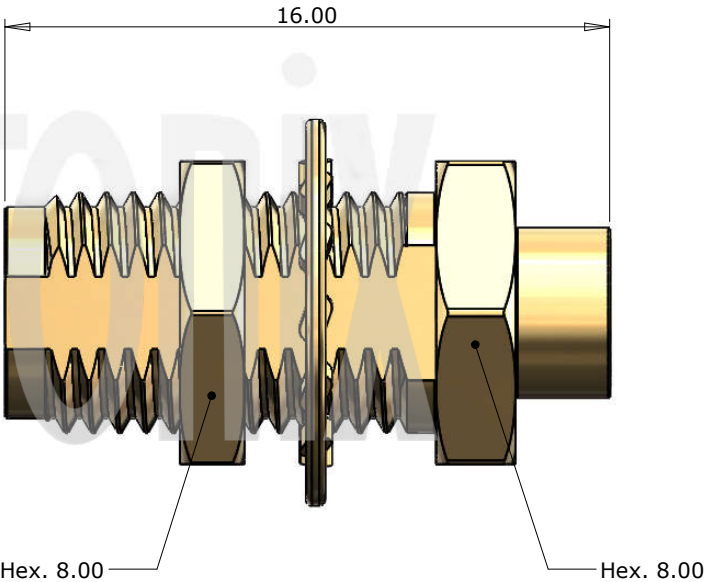
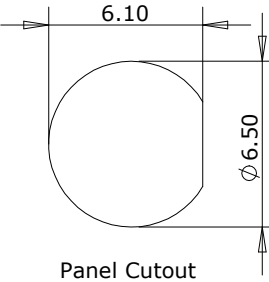
|                         |                   |
|-------------------------|-------------------|
| Cable Retention         | 27N               |
| Fixing Method           | Solder            |
| Durability              | 500 mating cycles |
| Cable Retention         | 272N              |
| Maximum Panel Thickness | 3.20mm            |


2. Environmental

|                   |                       |
|-------------------|-----------------------|
| RoHS Compliant    | Yes                   |
| Temperature Range | -65 to +165 degrees C |

3. Electrical

|                         |                        |
|-------------------------|------------------------|
| Dielectric Withstanding | 1000 Volts RMS Maximum |
| Impedance               | 50 ohms                |
| Interface Frequency     | 18 GHz                 |
| Working Voltage         | 500 Volts RMS Maximum  |



|                    |            |                  |               |   |   |              |              |
|--------------------|------------|------------------|---------------|---|---|--------------|--------------|
|                    |            |                  |               | Unless otherwise specified tolerances<br>0.5-5 = ±0.2<br>>5-30 = ±0.4<br>>30-120 = ±0.6<br>>120-315 = ±1.0<br>>315-1000 = ±1.6<br>Angles = ±5°<br>Units = mm        |    | Author       | PJP          |
|                    |            |                  |               |   |   | Drawn by     | PJP          |
|                    |            |                  |               |   |   | Drawing date | 17/11/2022   |
|                    |            |                  |               |   |   | Checked by   | DB           |
|                    |            |                  |               |   |   | Checked date | 17/11/2022   |
| 5                  | Washer     | Phosphor Bronze  | Gold          | This document is the confidential property of Gigatronix Limited and may not be copied, reproduced or transmitted to any third party without written authorisation. | <b>Part Number</b> MA02-0402-R01-8<br><br><b>Title:</b> SMA Solder Bulkhead Jack, Gold Plated, 8mm Hex Flange, RG402, .141 semi-rigid | Scale        | Not to scale |
| 4                  | Lock Nut   | Brass            | Gold          |   |   |              |              |
| 3                  | Dielectric | PTFE             | White         |   |   |              |              |
| 2                  | Contact    | Beryllium Copper | Gold          |   |   |              |              |
| 1                  | Body       | Brass            | Gold          |   |   |              |              |
| <b>Description</b> |            | <b>Material</b>  | <b>Finish</b> |   |   |              |              |

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## ASSEMBLY INSTRUCTIONS

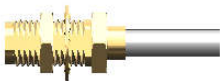
### Assembly Instructions

1) Strip the cable to the dimensions as shown, taking care not to nick the centre core.



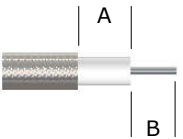
2) Solder the pin onto the centre core and slide the pin into the body, ensuring that the contact is fully located

3) Solder the outer shield of the cable to the connector mandril




### Strip Dimensions:

Semi Rigid (using a 0.5mm spacer) - A=0.0mm, B=3.5mm  
 Conformable - A=0.0mm, B=3.0mm



Conformable FEP - A=7.0mm, B=0.0mm, C=3.0mm



|             |            |                  |        |   |   |              |              |
|-------------|------------|------------------|--------|---|---|--------------|--------------|
|             |            |                  |        | Unless otherwise specified tolerances<br>0.5-5 = $\pm 0.2$<br>>5-30 = $\pm 0.4$<br>>30-120 = $\pm 0.6$<br>>120-315 = $\pm 1.0$<br>>315-1000 = $\pm 1.6$<br>Angles = $\pm 5^\circ$<br>Units = mm |    | Author       | PJP          |
|             |            |                  |        |   |   | Drawn by     | PJP          |
|             |            |                  |        |   |   | Drawing date | 17/11/2022   |
|             |            |                  |        |   |   | Checked by   | DB           |
|             |            |                  |        |   |   | Checked date | 17/11/2022   |
|             |            |                  |        | This document is the confidential property of Gigatronix Limited and may not be copied, reproduced or transmitted to any third party without written authorisation.                             | <b>Part Number</b> MA02-0402-R01-8<br><b>Title:</b> SMA Solder Bulkhead Jack, Gold Plated, 8mm Hex Flange, RG402, .141 semi-rigid | Scale        | Not to scale |
| 5           | Washer     | Phosphor Bronze  | Gold   |   |   |              |              |
| 4           | Lock Nut   | Brass            | Gold   |   |   |              |              |
| 3           | Dielectric | PTFE             | White  |   |   |              |              |
| 2           | Contact    | Beryllium Copper | Gold   |   |   |              |              |
| 1           | Body       | Brass            | Gold   |   |   |              |              |
| Description |            | Material         | Finish |   |   |              |              |