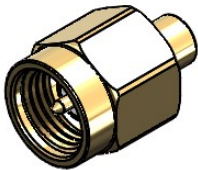


| Revisions | | |
|-----------|------------|-----------------|
| Issue | Date | Note |
| 3 | 19/05/2025 | See GTXPDC/1091 |



1. Mechanical

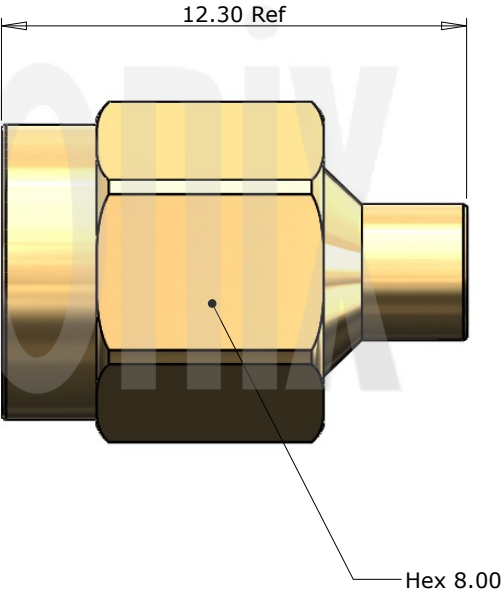
| | |
|-----------------|-------------------|
| Cable Retention | 27N |
| Durability | 500 mating cycles |
| Fixing Method | Solder |
| Cable Retention | 136N |
| Mating Torque | 0.79 to 1.13Nm |


2. Environmental

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

3. Electrical

| | |
|-------------------------|-----------------------|
| Dielectric Withstanding | 750 Volts RMS Maximum |
| Impedance | 50 ohms |
| Interface Frequency | 18 GHz |
| Working Voltage | 335 Volts RMS Maximum |



| | | | | | | | |
|---|--------------------|-----------------|---------------|---|---|--------------|--------------|
| | | | | <p>Unless otherwise specified tolerances</p> <p>0.5-5 = ±0.2</p> <p>>5-30 = ±0.4</p> <p>>30-120 = ±0.6</p> <p>>120-315 = ±1.0</p> <p>>315-1000 = ±1.6</p> <p>Angles = ±5°</p> <p>Units = mm</p> |  | Author | PJP |
| | | | | | | Drawn by | PJP |
| | | | | | | Drawing date | 06/07/2020 |
| | | | | | | Checked by | SM |
| | | | | | | Checked date | 08/07/2020 |
| 4 | Insulator | PTFE | White | <p>This document is the confidential property of Gigatronix Limited and may not be copied, reproduced or transmitted to any third party without written authorisation.</p> | <p>Part Number MA15-0405-R01</p> <p>Title: SMA Solder Plug, Gold Plated, RG405, .085 semi-rigid</p> | Scale | Not to scale |
| 3 | Coupling Nut | Brass | Gold | | | | |
| 2 | Pin | Brass | Gold | | | | |
| 1 | Body | Brass | Gold | | | | |
| | Description | Material | Finish | | | | |

| Revisions | | |
|-----------|------------|-----------------|
| Issue | Date | Note |
| 3 | 19/05/2025 | See GTXPDC/1091 |

ASSEMBLY INSTRUCTIONS

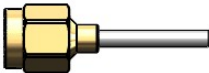
Assembly Instructions:

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



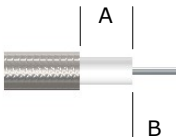
2) Solder the pin onto the centre core and slide the pin into the body, ensuring that the pin is located in accordance with MIL-C-39012 interface dimensional requirements.

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

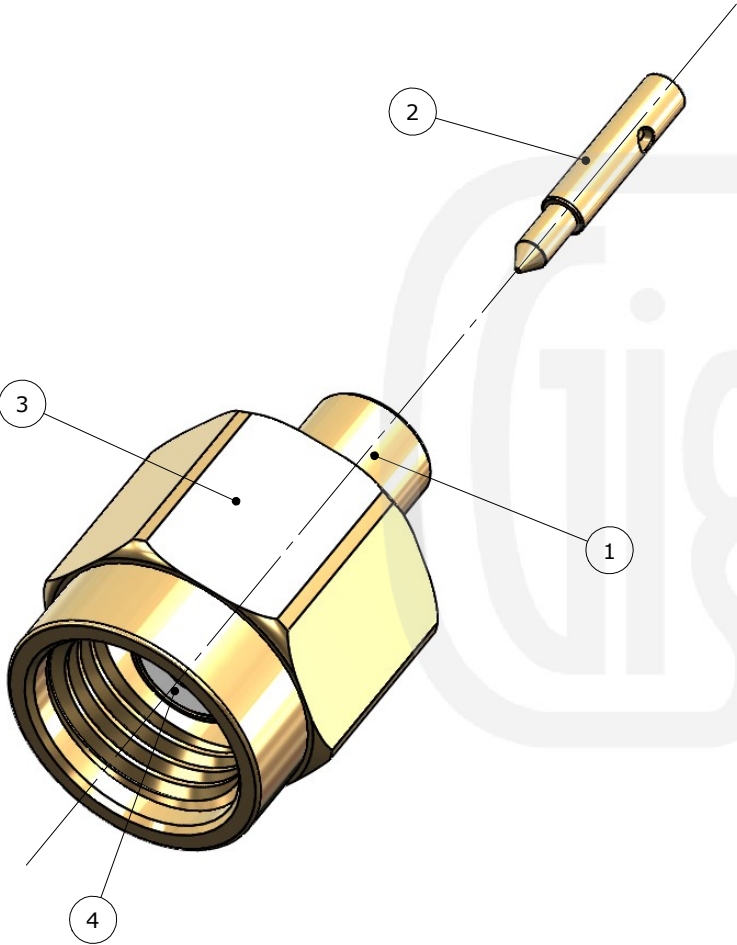



Strip Dimensions:

Semi Rigid Cable (using a 0.5mm spacer) - A=0.0mm, B=4.0mm
 Conformable Cable - A=0.5mm, B=3.5mm



Conformable FEP Cable - A=7.0mm, B=0.5mm, C=3.5mm



| | | | | | | | |
|---|--------------------|-----------------|---------------|---|---|--------------------------------|--|
| | | | | Unless otherwise specified tolerances 0.5-5 = ±0.2 >5-30 = ±0.4 >30-120 = ±0.6 >120-315 = ±1.0 >315-1000 = ±1.6 Angles = ±5° Units = mm |  | Author PJP | |
| | | | | | | Drawn by PJP | |
| | | | | | | Drawing date 06/07/2020 | |
| | | | | | | Checked by SM | |
| | | | | | | Checked date 08/07/2020 | |
| 4 | Insulator | PTFE | White | This document is the confidential property of Gigatronix Limited and may not be copied, reproduced or transmitted to any third party without written authorisation. | Part Number MA15-0405-R01 | Scale Not to scale | |
| 3 | Coupling Nut | Brass | Gold | | | | |
| 2 | Pin | Brass | Gold | | | | |
| 1 | Body | Brass | Gold | | | | |
| | Description | Material | Finish | | | | |