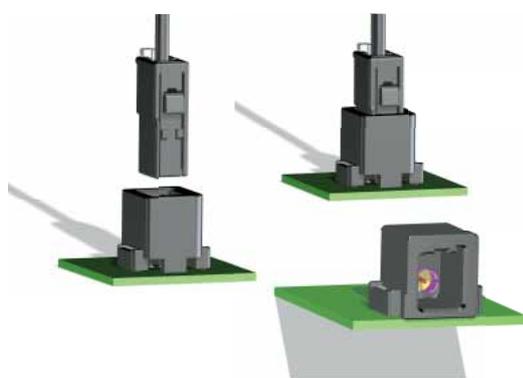


NEW

6GHz-compatible antenna connector

GT16G Series

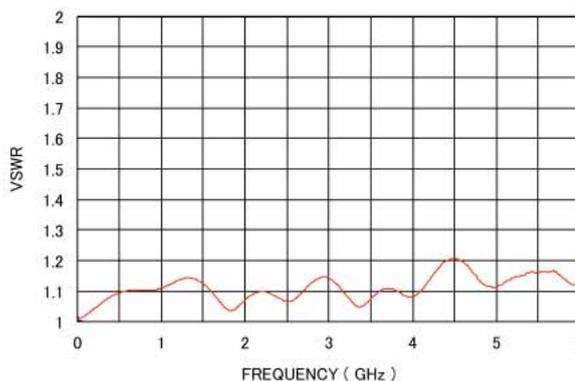


■ Features

- **Superior high frequency performance :**
V.S.W.R. is 1.5 in max (DC to 6GHz)
- **Satisfies rigorous test conditions for automotive devices**
- **Robust lock design provides a tactile click**
• Lock strength : 98N min
- **Many variations**
 - PCB connectors
SMT type, mid-mount type, lead reflow type
 - In-line connectors
Retainer-less type, Retainer type, bracket type, water-proof type
- **RoHS compliant**
- ◆ **Applications :**
Automotive WiFi/Bluetooth, V2X, DSRC, etc.

■ High frequency performance

- **V.S.W.R. maximum of 1.5 under all frequencies in a range between DC and 6GHz, presenting a superior high frequency performance.**
- **Available as connectors for automotive ETC, automotive WiFi/Bluetooth.**



*Data taken based on GT16GH-1P-DSA and GT16G-1S-HU (24).

■ Product Specifications

| Ratings | Rated current : 1A | Rated voltage : 250V AC |
|-------------------------------|--|---|
| | Operating temperature range : -30°C to 105°C | Storage temperature range : -40°C to 105°C |
| Items | Specifications | Conditions |
| 1. Insulation resistance | A min of 100MΩ | Measured at 500V DC |
| 2. Withstanding voltage | No flashover or dielectric breakdown. | 650V AC for 1 minute |
| 3. Contact resistance | Center contact : 30mΩ max, Outer contact : 60mΩ max | Measured at 1A DC |
| 4. High frequency | V.S.W.R. : 1.5 max | Measured in a range between 0 and 6GHz, Characteristic impedance : 50Ω |
| 5. Heat resistance | Center contact : 60mΩ max, Outer contact : 120mΩ max | 105°C for 300 hours |
| 6. Low temperature resistance | Center contact : 60mΩ max, Outer contact : 120mΩ max | -40°C for 120 hours |
| 7. Vibration resistance | No electrical discontinuity over 10μs. | 20 to 200Hz, acceleration : 43.1m/s ² , 3 axial directions, 3 hours |
| 8. Humidity resistance | Insulation resistance : 100MΩ min | 60°C, humidity : 90 to 95%, 96 hours |
| 9. Temperature cycles | Center contact : 60mΩ max, Outer contact : 120mΩ max No damage, cracks or loosened parts. | Temperature -40°C → Room temperature → 105°C → Room temperature, 30 minutes → 5 minutes → 30 minutes → 5 minutes, 1000 cycles |
| 10. Mating durability | Center contact : 60mΩ max, Outer contact : 120mΩ max | 30 mating cycles |
| 11. Soldering heat resistance | No deformation or excessive looseness of the terminals. | • Reflow : Twice with specified temperature profile. • Soldering iron temperature : 350°C, Max10sec. |

■ Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

● PCB connector/Inline connector

GT 16G * - 1 P - H

① ② ③ ④ ⑤ ⑥

| | |
|--|---|
| ① Series name : GT | ⑤ Contact type PCB connector P : Pin header Inline connector S : Socket P : Inline plug PP : Inline plug with bracket P/S : Available for both male and female |
| ② Series No. : 16C, 16G, 5W | |
| ③ Series Sub No. : Serial No. | |
| ④ Number of signal contacts : 1 | |
| ⑥ Product type PCB connector H : Right angle DSA : Straight Inline connector HU : Housing R : Retainer | |

● Center connector/outer connector

GT 16G * - 2428 SCF

① ② ③ ④ ⑤

| | |
|---|---|
| ① Series name : GT | ⑤ Form/Packaging Center SCF : Socket crimp contact/reel PCF : Plug crimp contact/reel Outer SC : Socket crimp contact/piece PC : Plug crimp contact/piece |
| ② Series No. : 16G | |
| ③ Series Sub No. : Serial No. | |
| ④ Applicable wire size Center 2428 : 24 to 28AWG Outer /1.6-2.9 : 1.5D-2W or equivalent | |

● Insulator/contact ferrule/outer ferrule

GT 16G - SC

① ② ③

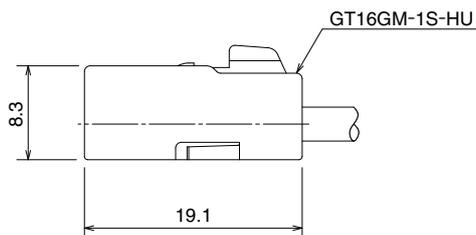
| | |
|--------------------|--|
| ① Series name : GT | ③ Part name SC : Female insulator PC : Male insulator FR : Contact ferrule 1.5DHQS : Outer Ferrule |
| ② Series No. : 16G | |

■ GT16G Series Mating Table

| Female Connector | Male Connector | |
|--|-------------------------|------------------|
| GT16GM-1S-ASSY (Retainer-less type) | SMT type | GT16GMP-1P-H |
| | PCB mid-mount type | GT16GM-1P-H |
| | Inline type | GT16GM-1P-ASSY |
| | Inline bracket type | GT16GMN-1PP-ASSY |
| GT16G-1S-ASSY GT16GT-1S-ASSY (Retainer type) | SMT type | GT16GD-1P-H |
| | | GT16GT-1P-H |
| | | GT16GH-1P-H |
| | PCB mid-mount type | GT16G-1P-H |
| | | GT16GL-1P-H(71)D |
| | | GT16GRL-1P-H |
| Lead reflow type | GT16GH-1P-DSA | |
| | GT16GT-1PP-ASSY | |
| GT16GW-1S-ASSY | Water-proof inline type | GT16GW-1P-ASSY |

■ Harness connector

● GT16GM-1S-ASSY



*Use two insulators per termination.

■ Housing / insulator

| Part | Housing | Insulator |
|------------|--------------|------------|
| Part No. | GT16GM-1S-HU | GT16G-SC |
| HRS No. | 766-0033-9 | 766-0023-5 |
| Materials | PBT | PBT |
| Color | Black | Natural |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

■ Center contact / outer contact

| Part | Center contact | Outer contact |
|----------------------|-----------------|-----------------------|
| Part No. | GT16G-2428SCF | GT16GM-1.6-2.9SC |
| HRS No. | 766-0022-2 | 766-0025-0 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

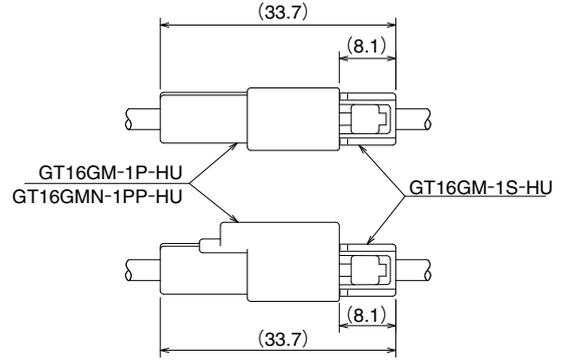
■ Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

●GT16GM-1P-ASSY



●GT16GMN-1PP-ASSY



*Use two insulators per termination.

■Housing / insulator

| Part | Housing | | Insulator |
|------------|--------------|----------------|------------|
| Part No. | GT16GM-1P-HU | GT16GMN-1PP-HU | GT16G-PC |
| HRS No. | 766-0050-8 | 766-0051-0 | 766-0047-3 |
| Materials | PBT | PBT | PBT |
| Color | Black | Black | Natural |
| Sales unit | 1 piece | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ |
| Dimension | | | |

■Center contact / outer contact

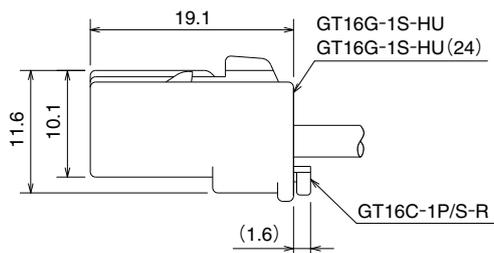
| Part | Center contact | Outer contact |
|----------------------|-----------------|-----------------------|
| Part No. | GT16G-2428PCF | GT16G-1.6-2.9PC |
| HRS No. | 766-0046-0 | 766-0048-6 |
| Materials | Brass | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

■Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

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●GT16G-1S-ASSY



*Use two insulators per termination.

■Housing / insulator / Retainer

| Part | Housing | | Insulator | Retainer |
|------------|-------------|-----------------|------------|--------------|
| Part No. | GT16G-1S-HU | GT16G-1S-HU(24) | GT16G-SC | GT16C-1P/S-R |
| HRS No. | 766-0026-3 | 766-0026-3 24 | 766-0023-5 | 766-0011-6 |
| Materials | PBT | PBT | PBT | PBT |
| Color | Light gray | Black | Natural | Dark gray |
| Sales unit | 1 piece | 1 piece | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ | ○ |
| Dimension | | | | |

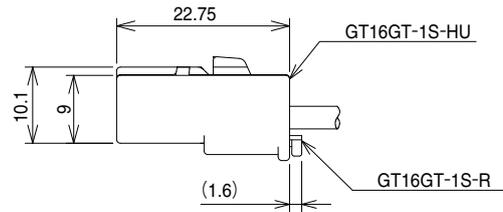
■Center contact / outer contact

| Part | Center contact | Outer contact |
|----------------------|-----------------|-----------------------|
| Part No. | GT16G-2428SCF | GT16G-1.6-2.9SC |
| HRS No. | 766-0022-2 | 766-0024-8 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

■Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

●GT16GT-1S-ASSY



*Use two insulators per termination.

■Housing / insulator / Retainer

| Part | Housing | Insulator | Retainer |
|------------|--------------|------------|-------------|
| Part No. | GT16GT-1S-HU | GT16G-SC | GT16GT-1S-R |
| HRS No. | 766-0098-4 | 766-0023-5 | 766-0099-7 |
| Materials | PBT | PBT | PBT |
| Color | Black | Natural | Natural |
| Sales unit | 1 piece | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ |
| Dimension | | | |

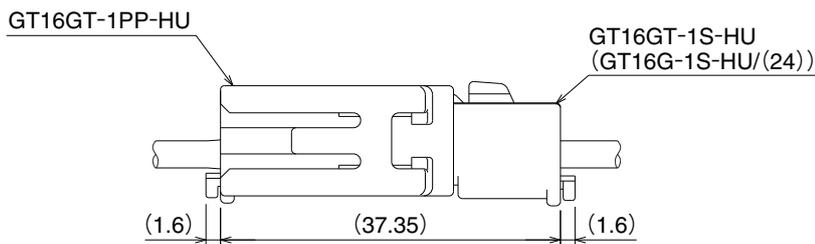
■Center contact / outer contact

| Part | Center contact | Outer contact |
|----------------------|-----------------|-----------------------|
| Part No. | GT16G-2428SCF | GT16G-1.6-2.9SC |
| HRS No. | 766-0022-2 | 766-0024-8 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

■Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

●GT16GT-1PP-ASSY



*Use two insulators per termination.

■Housing / insulator / Retainer

| Part | Housing | Insulator | Retainer |
|------------|---------------|------------|--------------|
| Part No. | GT16GT-1PP-HU | GT16G-PC | GT16C-1R/S-R |
| HRS No. | 766-0049-9 | 766-0047-3 | 766-0011-6 |
| Materials | PBT | PBT | PBT |
| Color | Black | Natural | Dark gray |
| Sales unit | 1 piece | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ |
| Dimension | | | |

■Center contact / outer contact

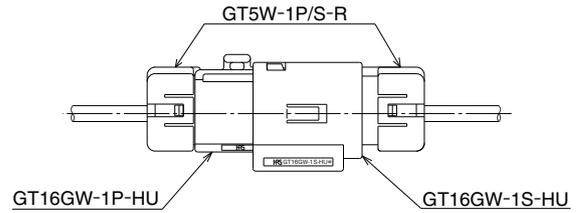
| Part | Center contact | Outer contact |
|----------------------|-----------------|-----------------------|
| Part No. | GT16G-2428PCF | GT16G-1.6-2.9PC |
| HRS No. | 766-0046-0 | 766-0048-6 |
| Materials | Brass | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

■Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

●GT16GW-1P-ASSY

●GT16GW-1S-ASSY



*Use two insulators per termination.

■Housing / insulator / Retainer

| Part | Housing | | Insulator | | Retainer |
|------------|--------------|---------------------|------------|------------|----------------------|
| Part No. | GT16GW-1P-HU | GT16GW-1S-HU | GT16G-PC | GT16G-SC | GT5W-1P/S-R |
| HRS No. | 766-0077-4 | 766-0076-1 | 766-0047-3 | 766-0023-5 | 755-0028-5 |
| Materials | PBT | PBT/Silicone rubber | PBT | PBT | PBT/Silicone rubber |
| Color | Black | Black/white | Natural | Natural | Dark gray/light blue |
| Sales unit | 1 piece | 1 piece | 1 piece | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ | ○ | ○ |
| Dimension | | | | | |

■Center contact / outer contact

| Part | Center contact | | Outer contact | |
|----------------------|-----------------|-----------------|-----------------------|-----------------------|
| Part No. | GT16G-2428PCF | GT16G-2428SCF | GT16G-/1.6-2.9PC | GT16G-/1.6-2.9SC |
| HRS No. | 766-0046-0 | 766-0022-2 | 766-0048-6 | 766-0024-8 |
| Materials | Brass | Phosphor bronze | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating | Tin plating | Tin plating |
| Applicable wire size | 24 to 28 AWG | 24 to 28 AWG | 1.5D-2W or equivalent | 1.5D-2W or equivalent |
| Sales unit | 10,000 pcs/reel | 10,000 pcs/reel | 1 piece | 1 piece |
| RoHS | ○ | ○ | ○ | ○ |
| Dimension | | | | |

■Contact ferrule / outer ferrule

| Part | Contact ferrule | Outer ferrule |
|------------|-----------------|-----------------|
| Part No. | GT16G-FR | GT16G-1.5DHQS |
| HRS No. | 766-0028-9 | 766-0027-6 |
| Materials | Phosphor bronze | Phosphor bronze |
| Finish | Tin plating | Tin plating |
| Sales unit | 1 piece | 1 piece |
| RoHS | ○ | ○ |
| Dimension | | |

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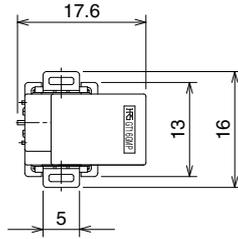
PCB connector

● SMT type (onboard)

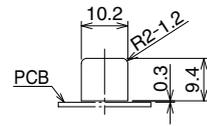
◆ GT16GMP-1P-H



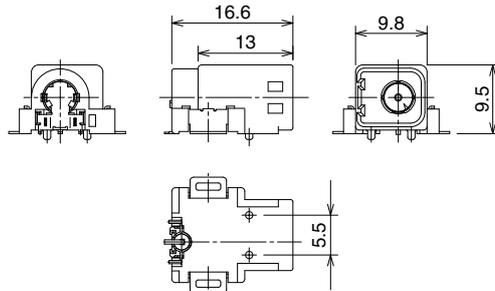
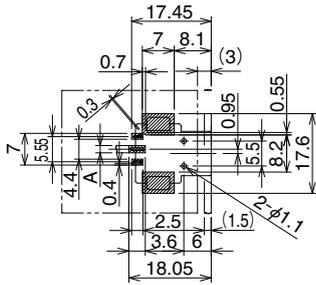
Dimension



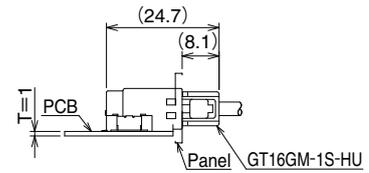
Recommended panel dimension



Recommended PCB Layout



Mated condition



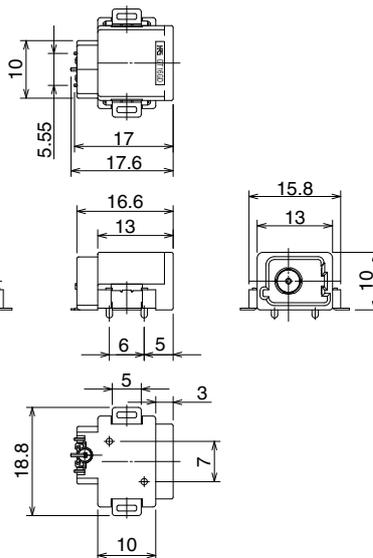
Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|--------------|------------|-------------------|-----------------|-----------------|--------------|------|
| GT16GMP-1P-H | 766-0052-3 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator L and R | PPS | Natural | | |
| | | Shielding plate | Phosphor bronze | Tin plating | | |
| | | Metal peg | Brass | Tin plating | | |

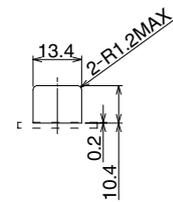
◆ GT16GD-1P-H



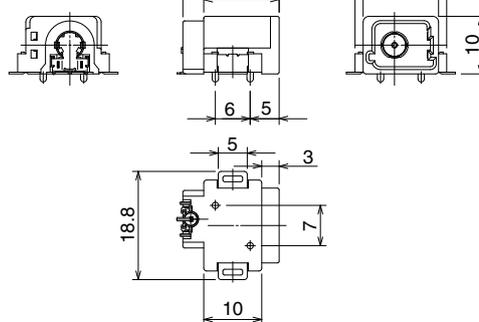
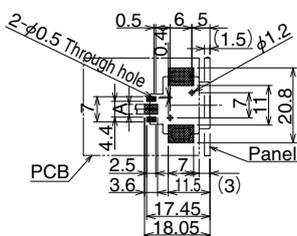
Dimension



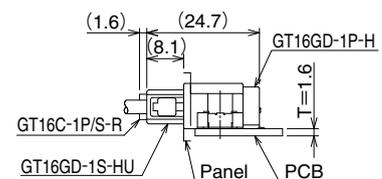
Recommended panel dimension



Recommended PCB Layout



Mated condition



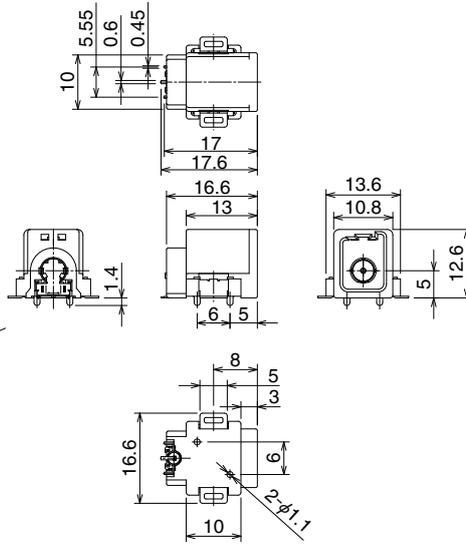
Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|-------------|------------|-------------------|-----------------|-----------------|--------------|------|
| GT16GD-1P-H | 766-0044-5 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator L and R | PPS | Natural | | |
| | | Shielding plate | Phosphor bronze | Tin plating | | |
| | | Metal peg | Brass | Tin plating | | |

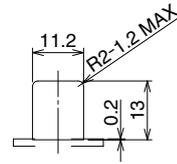
◆GT16GT-1P-H



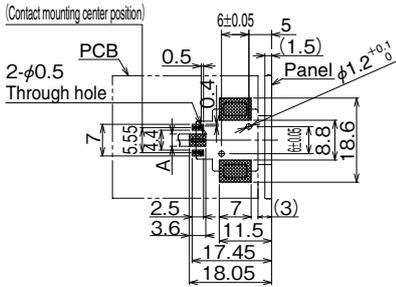
◆Dimension



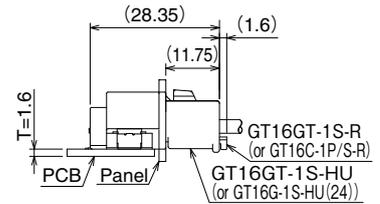
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



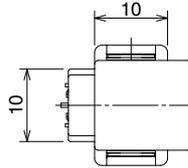
Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|-------------|------------|-------------------|-----------------|-----------------|--------------|------|
| GT16GT-1P-H | 766-0104-5 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator L and R | PPS | Natural | | |
| | | Shielding plate | Phosphor bronze | Tin plating | | |
| | | Metal peg | Brass | Tin plating | | |

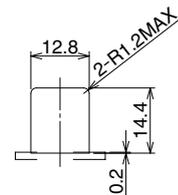
◆GT16GH-1P-H (Metal peg : Lead reflow type)



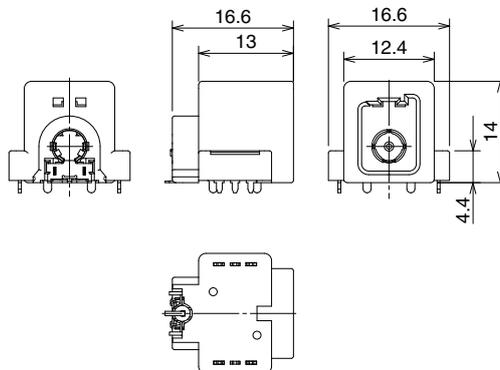
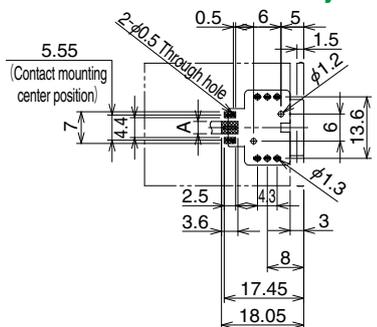
◆Dimension



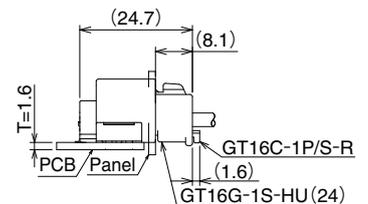
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

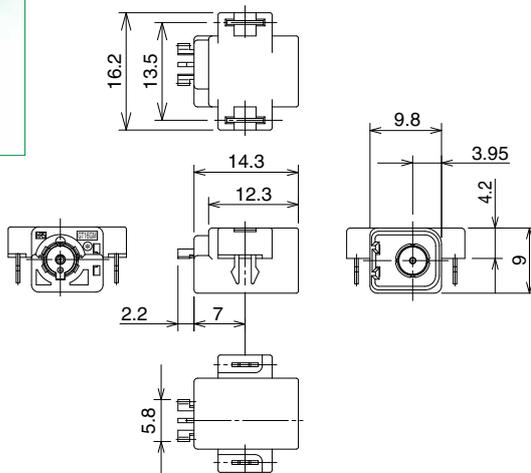
| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|-------------|------------|-------------------|-----------------|-----------------|--------------|------|
| GT16GH-1P-H | 766-0118-0 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator L and R | PPS | Natural | | |
| | | Shielding plate | Phosphor bronze | Tin plating | | |
| | | Metal peg | Brass | Tin plating | | |

●SMT type (mid-mount)

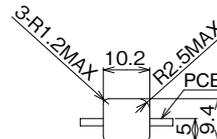
◆GT16GM-1P-H (Metal peg : Lock pin type)



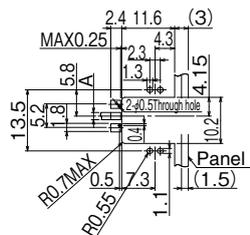
◆Dimension



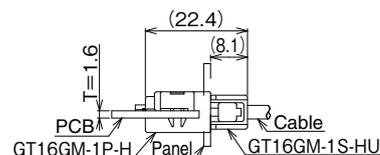
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



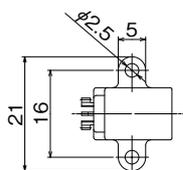
Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|-------------|------------|-----------------|-----------------|-----------------|------------|------|
| GT16GM-1P-H | 766-0032-6 | Housing | PBT | Black | 1 piece | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator | PBT | Natural | | |
| | | Lock pin | Phosphor bronze | Tin plating | | |

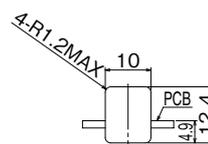
◆GT16G-1P-H (Screw type)



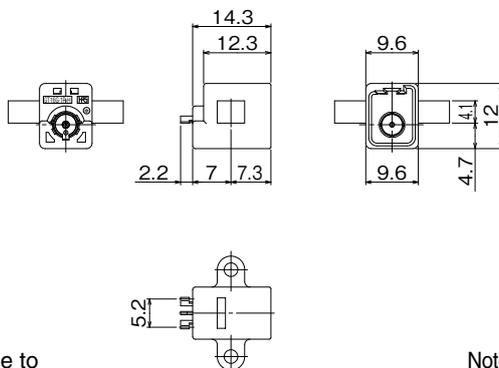
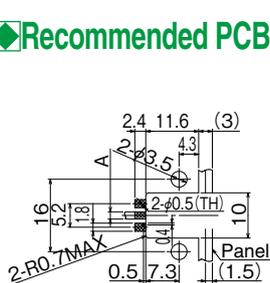
◆Dimension



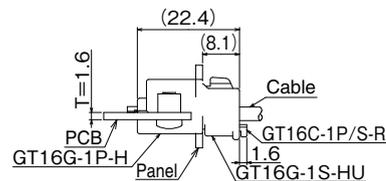
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

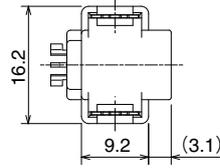
Note : Use JIS B 1122 pan tapping screws (Type 2, Nominal diameter : 3mm, Length : 6mm).

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|------------|------------|-----------------|-----------------|-----------------|------------|------|
| GT16G-1P-H | 766-0021-0 | Housing | PBT | Light gray | 1 piece | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator | PBT | Natural | | |

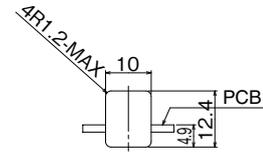
◆GT16GL-1P-H (71) D (Metal peg : Lead reflow type)



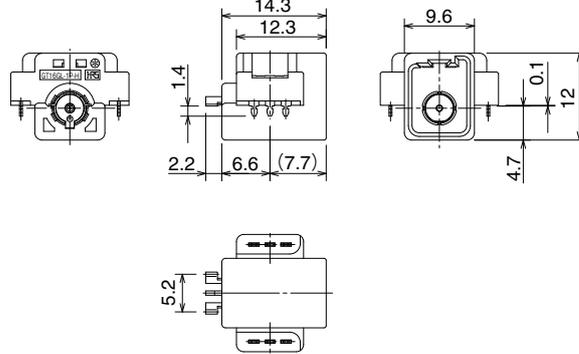
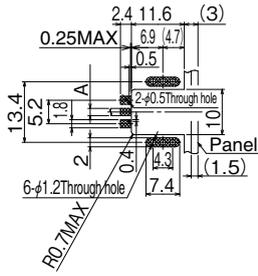
◆Dimension



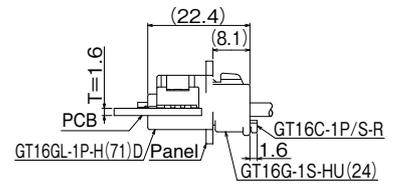
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



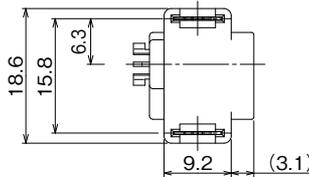
Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|------------------|------------|-----------------|-----------------|-----------------|--------------|------|
| GT16GL-1P-H(71)D | 766-0103-2 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator | PPS | Natural | | |
| | | Metal peg | Brass | Tin plating | | |

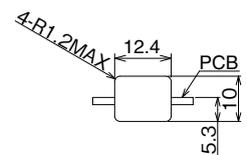
◆GT16GRL-1P-H (Metal peg : Lead reflow type)



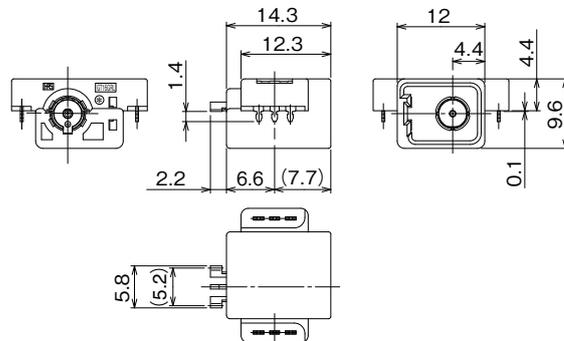
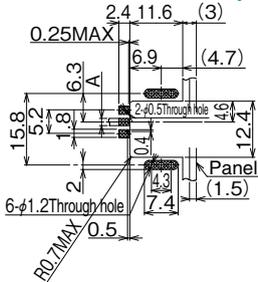
◆Dimension



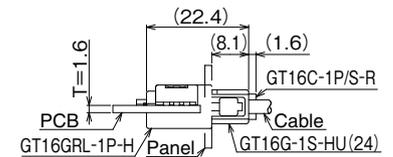
◆Recommended panel dimension



◆Recommended PCB Layout



◆Mated condition



Note : Adjust size A of a microstrip line to satisfy 50Ω characteristic impedance.

| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|--------------|------------|-----------------|-----------------|-----------------|--------------|------|
| GT16GRL-1P-H | 766-0101-7 | Housing | PPS | Black | 200 pcs/reel | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator | PPS | Natural | | |
| | | Metal peg | Brass | Tin plating | | |

●Lead reflow type (onboard)

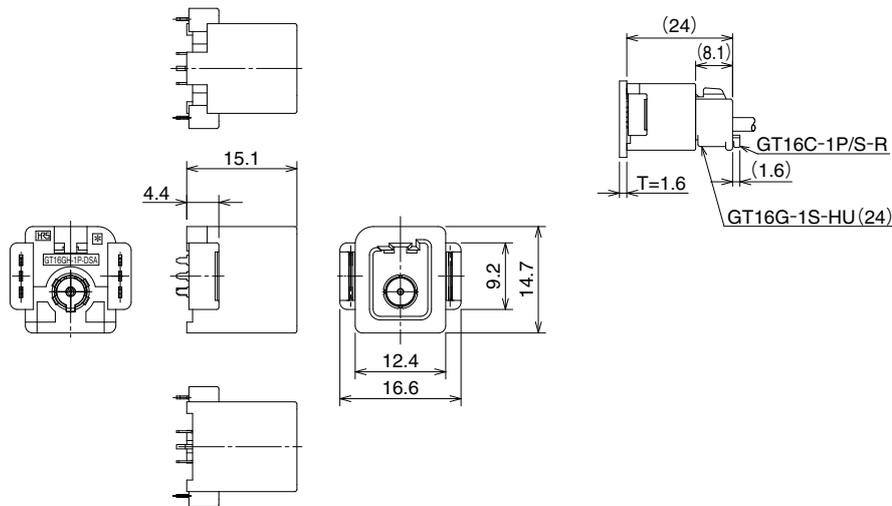
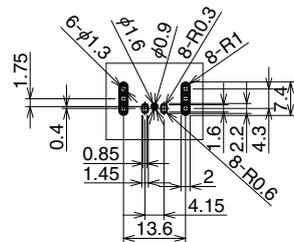
◆GT16GH-1P-DSA



◆Dimension

◆Mated condition

◆Recommended PCB Layout



| Part No. | HRS No. | Part | Materials | Finish or color | Sales unit | RoHS |
|---------------|------------|-----------------|-----------------|-----------------|------------|------|
| GT16GH-1P-DSA | 766-0112-3 | Housing | PPS | Black | 1 piece | ○ |
| | | Center terminal | Phosphor bronze | Tin plating | | |
| | | Outer terminal | Phosphor bronze | Tin plating | | |
| | | Insulator | PPS | Natural | | |
| | | Metal peg | Brass | Tin plating | | |

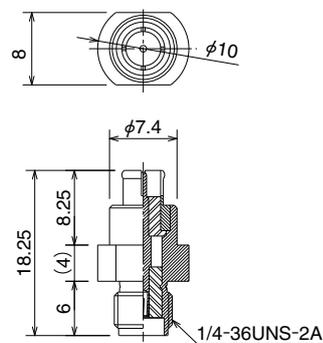
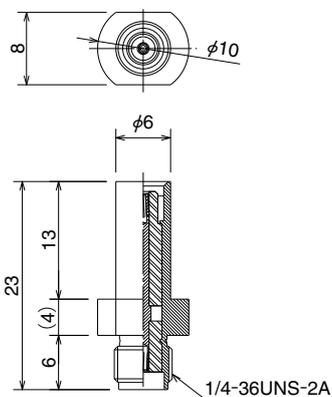
●GT16G Series Conversion Adapter

◆SMA Conversion Adapter



◆Dimension

◆Dimension



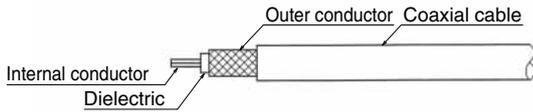
| Part No. | HRS No. | Sales unit | RoHS |
|-------------|------------|------------|------|
| GT16GS-HRMJ | 766-0031-3 | 1 piece | ○ |
| GT16GP-HRMJ | 766-0030-0 | 1 piece | ○ |

Note : The adapter does not have a lock portion and thus can only be used for performance measurements.

◆GT16G Wiring Method

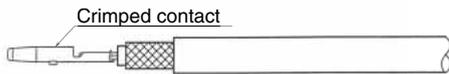
①Strip the cable.

- Note 1 : See "Crimping Quality Standards Manual" for information about the end processing dimensions.
- Note 2 : Before performing end processing, arrange cable ends to be perpendicular. (There shall be no cable crushing.)
- Note 3 : Care must be taken so as not to damage the various cut portions of the Internal conductor, dielectric, and external conductor.



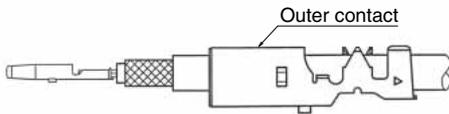
②Crimp the center contact with the special jig.

- Note 1 : See "Crimping Conditions Table" for information about the crimp height.
- Note 2 : See "Crimping Quality Standards Manual" for information about crimping standards.



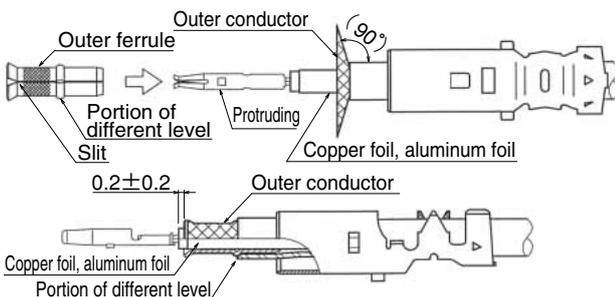
③Place the outer contact over the cable.

- Note 1 : Pay attention to the placement direction of the outer contact.



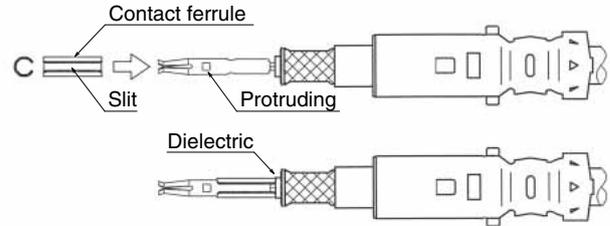
④Widen the external conductor with the special tool, place the outer ferrule, and return the external conductor over the outer ferrule.

- Note 1 : Spread only the external conductor without unravelling. Copper foil or aluminum foil shall not be spread, but shall be on the inside of the outer ferrule.
- Note 2 : The orientation of the outer ferrule shall be as indicated in the diagram. Align the slit of the outer ferrule with the protruding portion of the crimp contact and insert.
- Note 3 : The outer ferrule shall be placed so that the portion of different level is inserted as far as the sheath end.
- Note 4 : Pay attention to pinching of the external conductor (i.e., biting into the sheath) during the placement.



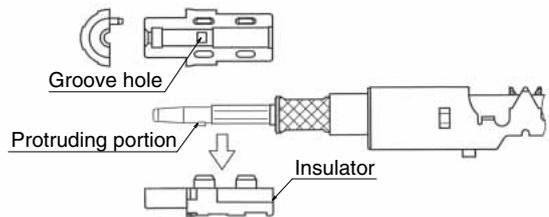
⑤Using the special jig, insert the contact ferrule from the coupling side of the crimp terminal until it reaches the end.

- Note 1 : Orient the contact ferrule as illustrated in the diagram, align the slit portion of the contact ferrule with the protruding portion of the crimp terminal, and then insert.



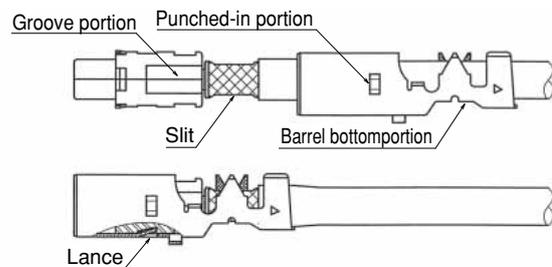
⑥Set the aforementioned contact unit onto the insulator and enclose it from the top with one more insulator.

- Note 1 : Set the protruding portion of the crimp contact in the groove hole of the insulator.
- Note 2 : Pull the cable with a force on the order of 4.9N and check that the terminal block does not come out.



⑦Use the special tool to cover the insulator with the outer contact, which was previously inserted.

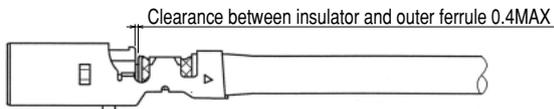
- Note 1 : Orient the outer contact as illustrated in the diagram, align the punched-in portion of the outer contact with the groove portion of the insulator (so that at both left and right, the slit of the outer ferrule is aligned with the barrel bottom portion of the outer contact), and then insert.
- Note 2 : Insert until the insulator stops at the lance of the outer contact.



⑧ Use the special jig to crimp the outer contact.

Note 1 : See "Crimping Conditions Table" for information about the crimping height.

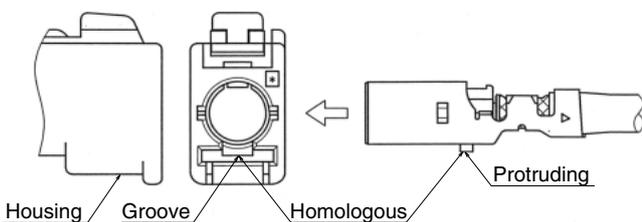
Note 2 : See "Crimping Quality Standards Manual" for information about crimping standards.



⑨ Insert the aforementioned outer contact unit into the housing.

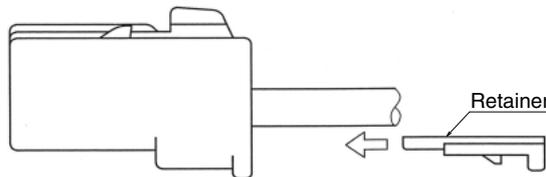
Note 1 : Align the protruding portion of the outer contact with the groove portion of the housing, and then insert.

Note 2 : Insert until the outer contact stops at the lance of the housing.

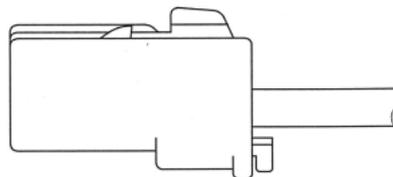


⑩ Insert the retainer into the housing.

Note 1 : Insert until the retainer stops at the housing.

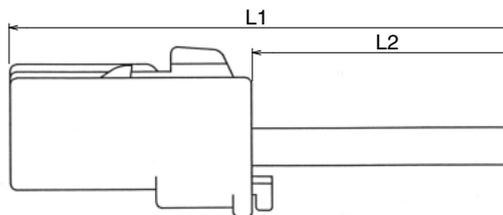


⑪ Inspect and complete the wiring.



Note 1 : The length (L) dimension after wiring and the cut cable length are described below.

Cut cable length: L1 - 8.1
L2 + 11.0

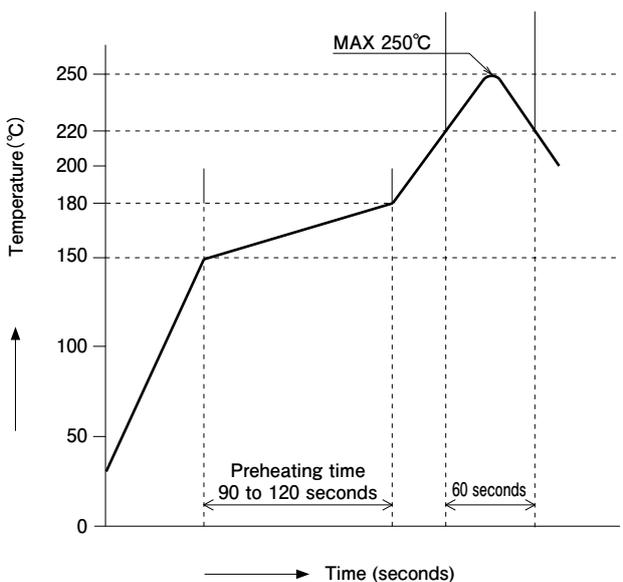


*The cable length differs depending on the housing type. Please contact Hirose for details.

●Wiring Tools

| Applicable Connectors | | GT16GM-1S-ASS GT16G-1S-ASSY GT16GT-1S-ASSY GT16GW-1S-ASSY | GT16GM-1P-ASSY GT16GMN-1PP-ASSY GT16GT-1PP-ASSY GT16GW-1P-ASSY |
|-----------------------|------------------------------|--|--|
| Process 1 | Cable strip processing | Schleuniger MP257, etc. (Commercial product) | Schleuniger MP257, etc. (Commercial product) |
| Process 2 | Center contact crimping | Crimping machine body type 105C + AP105-GT16G-2428S | Crimping machine body type 105C + AP105-GT16G-2428P |
| Process 3 | Cable forming | Shield forming tool GT16G-1.5DHQS/CF-MD | Shield forming tool GT16G-1.5DHQS/CF-MD |
| Process 4 | Outer ferrule insertion | Outer ferrule insertion tool GT16G-1.5DHQS/PR-MD | Outer ferrule insertion tool GT16G-1.5DHQS/PR-MD |
| Process 5 | Contact ferrule insertion | Contact ferrule insertion tool GT16G-FR/PR-MD | Contact ferrule insertion tool GT16G-FR/PR-MD |
| Process 6 | Insulator assembly | Manual task | Manual task |
| Process 7 | Outer contact insertion | Insulator press tool GT16G-SC/PR-MD | — |
| Process 8 | Outer contact tightening | Hand press MOS-7 + GT16G-1.6-2.9S/CK-MP | Hand press MOS-7 + GT16G-1.6-2.9P/CK-MP |
| Process 9 | Housing, (retainer) assembly | Manual task | Manual task |
| Process 10 | Inspection | High frequency characteristics test (Complete) Continuity / Withstand voltage test Inspection of external appearance | High frequency characteristics test (Complete) Continuity / Withstand voltage test Inspection of external appearance |

◆ Precautions

| | |
|--|---|
| <p>1. Recommended temperature profile</p> |  <p>[Conditions]</p> <ol style="list-style-type: none"> 1. Peak temperature : 250°C 2. Heating unit : 220°C min, 60 sec max. 3. Preheating unit : 150 to 180°C for 90 to 120 seconds 4. Number of times : 2 times max <p>Note 1 : The temperature is the surface temperature of the PCB in the vicinity of the connector lead part. Note 2 : When you use nitrogen reflow, please mount the product with the oxygen concentration at a minimum of 1,000 [ppm]. Please contact us if the concentration is below 1,000 [ppm].</p> |
| <p>2. Recommended hand soldering conditions</p> | <p>Soldering iron temperature : 340 ± 10°C, Soldering time : within 3 seconds</p> |
| <p>3. Recommended screen thickness/aperture ratio (pattern area ratio)</p> | <p>Thickness : 0.15mm Aperture ratio : 100%</p> |
| <p>4. Cleaning</p> | <p>Not recommended. If you clean this product, please evaluate the performance before using it. (Cleaning may cause a change in the mating/unmating property and its resistance to environment)</p> |
| <p>5. Notes</p> | <ul style="list-style-type: none"> ■ Care should be taken that mating/unmating operation when the product is not mounted on the PCB could cause damage or deformation, etc. of the contact. ■ Avoid supporting the PCB only by connectors, and support it by other means than connectors. ■ Care should be taken that excessive prying mating/unmating could cause damage. ■ During hand soldering, do not apply flux which will cause flux oozing on connector. |



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<http://www.hirose-connectors.com>

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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