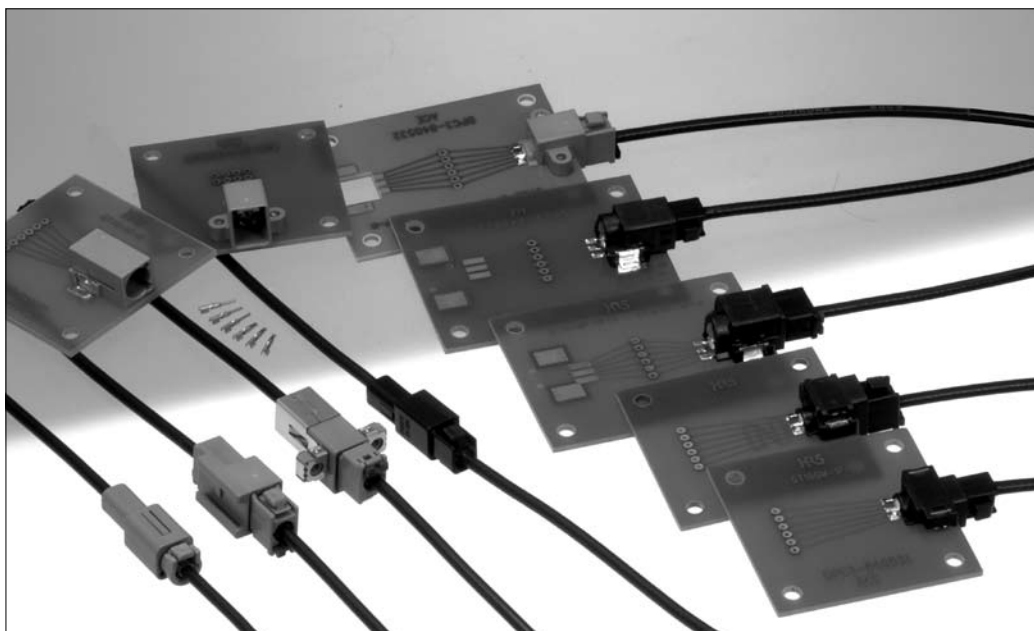


# GT16 Series

## — Subminiature Connectors for coaxial cables —

<Several types and configurations: In-line, board mounted.  
Multi-position and color/ keying variations.>



### ■ Features

- **Space-saving Design**  
Compact and light weight comparing with HRS GT5 series.
- **Excellent High Frequency Performance**  
Refer to V.S.W.R. data on the following pages.

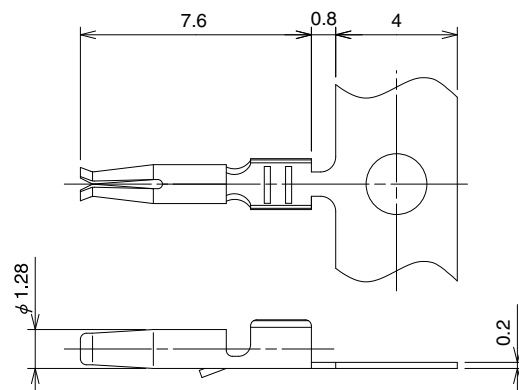
### ■ Applications

In-car communication, car sensors(temperature, pressure), automotive audio systems, GPS antenna systems, RACS antenna audio/video antenna systems, CRT displays, medical and measuring instrumentation LAN systems.

## GT16 Series

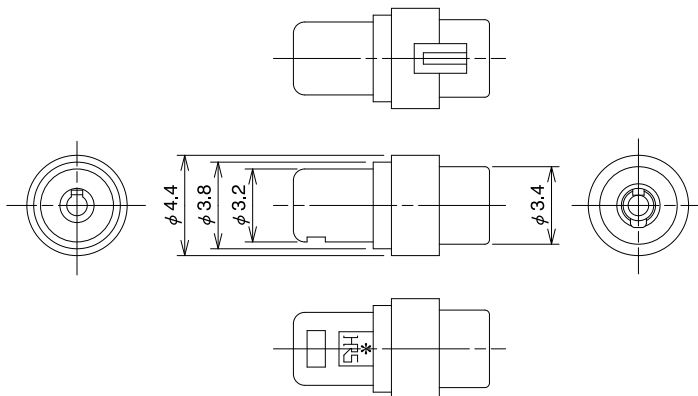
### F Connectors (Common Use)

#### ● Center terminal



| Part Number  | HRS No.    | Conductor Size | Material        | Finish      | Packaging       | RoHS |
|--------------|------------|----------------|-----------------|-------------|-----------------|------|
| GT16-2428SCF | 766-0001-2 | AWG#24-28      | Phosphor bronze | Tin plating | 10,000 pcs/reel | YES  |
| GT16-30SCF   | 766-0055-1 | AWG#30         | Phosphor bronze | Tin plating | 10,000 pcs/reel |      |

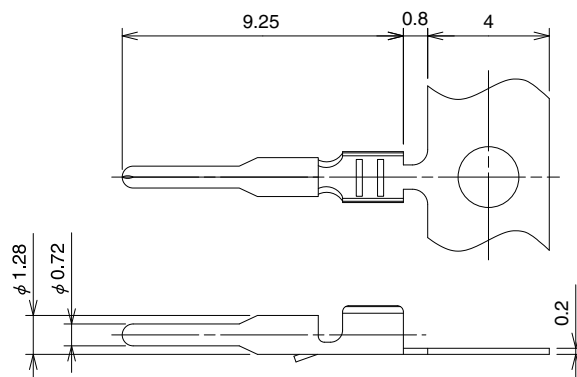
#### ● Insulator (Common Use)



| Part Number | HRS No.    | Material | Color | Packaging | RoHS |
|-------------|------------|----------|-------|-----------|------|
| GT16-SC     | 766-0002-5 | PBT      | White | 1 piece   | YES  |

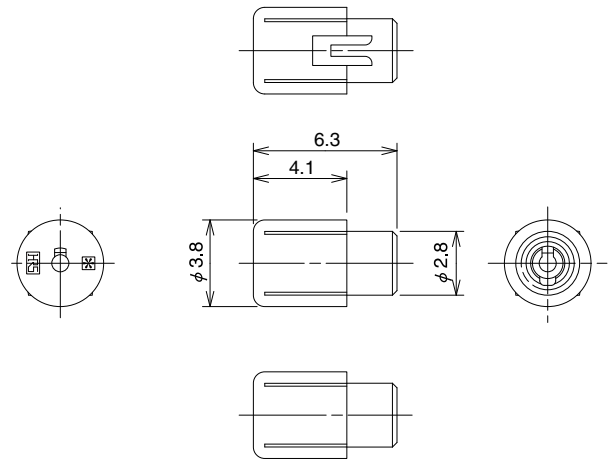
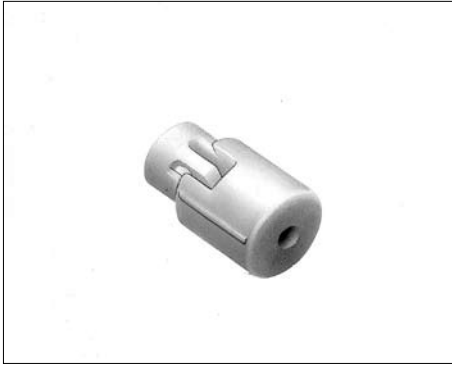
### M Connectors (Common Use)

#### ● Center Terminals



| Part Number  | HRS No.    | Conductor Size | Material | Finish      | Packaging       | RoHS |
|--------------|------------|----------------|----------|-------------|-----------------|------|
| GT16-2428PCF | 766-0006-6 | AWG#24-28      | Brass    | Tin plating | 10,000 pcs/reel | YES  |
| GT16-30PCF   | 766-0015-7 | AWG#30         | Brass    | Tin plating | 10,000 pcs/reel |      |

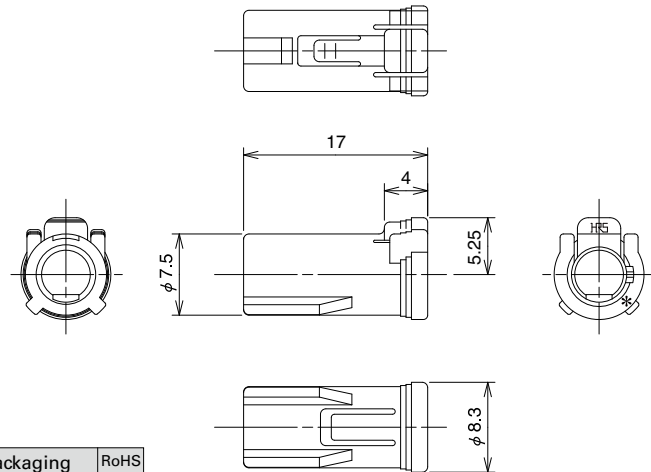
### ● Insulator (Common Use)



| Part Number | HRS No.    | Material | Finish | Packaging | RoHS |
|-------------|------------|----------|--------|-----------|------|
| GT16-PC     | 766-0007-9 | PBT      | White  | 1 piece   | YES  |

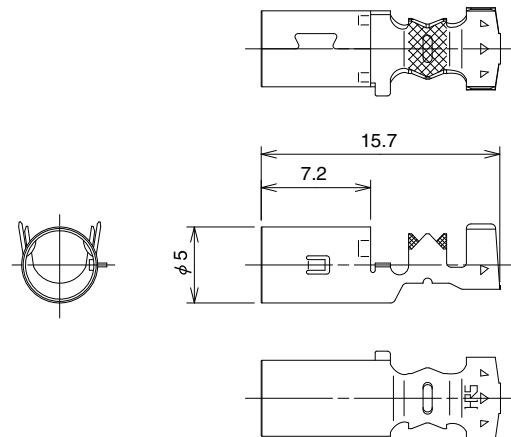
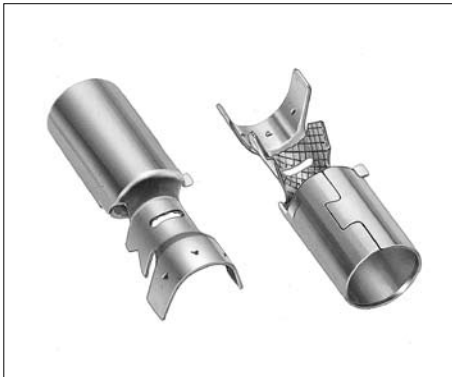
### ■ After-Market F Part Connect(No retainer required type)

#### ● Housing



| Part Number   | HRS No.    | Material | Finish     | Packaging | RoHS |
|---------------|------------|----------|------------|-----------|------|
| GT16-1S-HU    | 766-0004-0 | PBT      | Light Gray | 1 piece   | YES  |
| GT16-1S-HU(P) | 766-0067-0 | PBT      | Black      | 1 piece   |      |

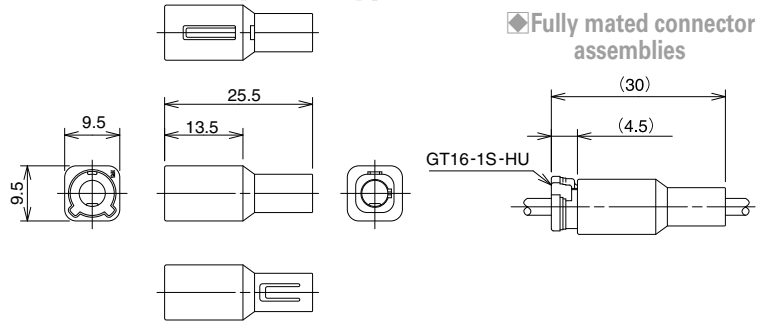
#### ● Outer terminal



| Part Number     | HRS No.    | Applicable Cable      | Material        | Finish      | Packaging | RoHS |
|-----------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16-/1.6-2.9SC | 766-0003-8 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |
| GT16-/0.7-1.5SC | 766-0056-4 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   |      |
| GT16-/1.1-2.2SC | 766-0088-0 | 1.0D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   |      |

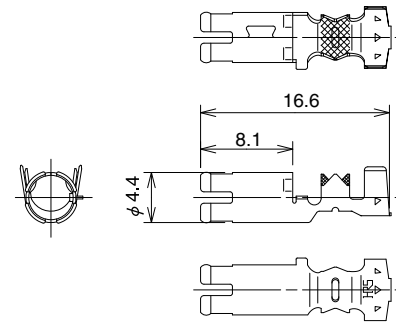
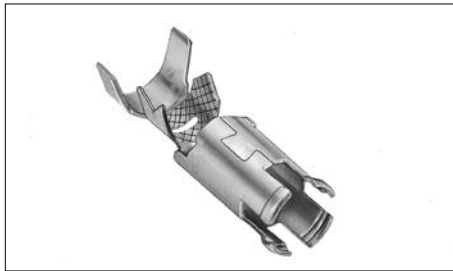
## After-Market Parts M Connector(No retainer required type)

### ● Housing



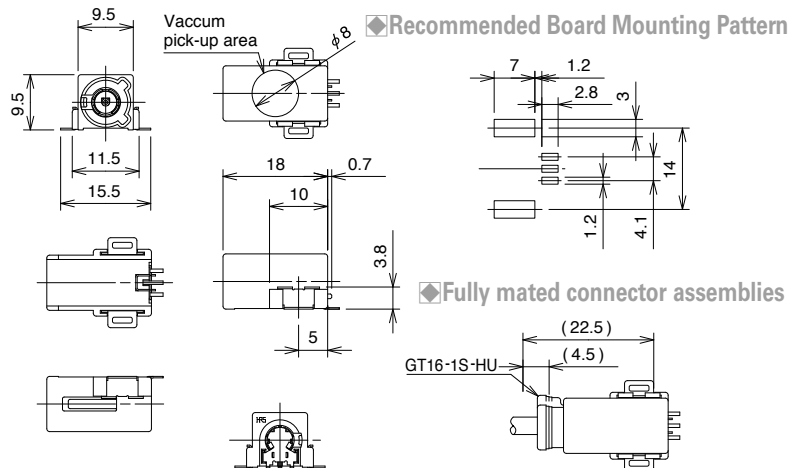
| Part Number   | HRS No.    | Material | Finish     | Packaging | RoHS |
|---------------|------------|----------|------------|-----------|------|
| GT16-1P-HU    | 766-0009-4 | PBT      | Light Gray | 1 piece   | YES  |
| GT16-1P-HU(P) | 766-0068-3 | PBT      | Black      | 1 piece   | YES  |

### ● Outer terminals

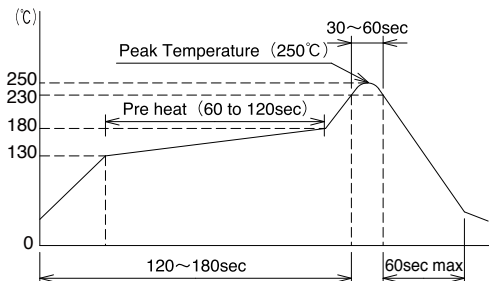


| Part Number     | HRS No.    | Applicable Cable      | Material        | Color       | Packaging | RoHS |
|-----------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16-/1.6-2.9PC | 766-0008-1 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |
| GT16-/0.7-1.5PC | 766-0016-0 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |

### ● Printed Circuit Board Type (SMT Type)



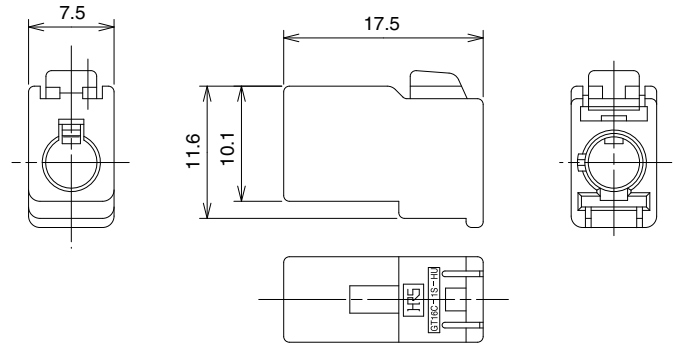
### ◆ Recommended Temperature Profile



| Part Number  | HRS No.    | Material                         | Color/Finish | Packaging | RoHS |
|--------------|------------|----------------------------------|--------------|-----------|------|
| GT16-1P-H    | 766-0005-3 | PPS(Housing)                     | Light Gray   | 1 piece   | YES  |
|              |            | Phosphor bronze (Inner Terminal) | Tin plating  |           |      |
|              |            | Phosphor bronze (Outer Terminal) | Tin plating  |           |      |
|              |            | PPS (Insulator)                  | Natural      |           |      |
|              |            | Phosphor bronze (Shield plate)   | Tin plating  |           |      |
| GT16-1P-H(P) | 766-0066-8 | Brass (Metal fitting)            | Tin plating  | 1 piece   | YES  |
|              |            | PPS(Housing)                     | Black        |           |      |
|              |            | Phosphor bronze (Inner Terminal) | Tin plating  |           |      |
|              |            | Phosphor bronze (Outer Terminal) | Tin plating  |           |      |
|              |            | PPS (Insulator)                  | Natural      |           |      |
|              |            | Phosphor bronze (Shield plate)   | Tin plating  |           |      |
|              |            | Brass (Metal fitting)            | Tin plating  |           |      |

## Genuine Market Parts F Connectors

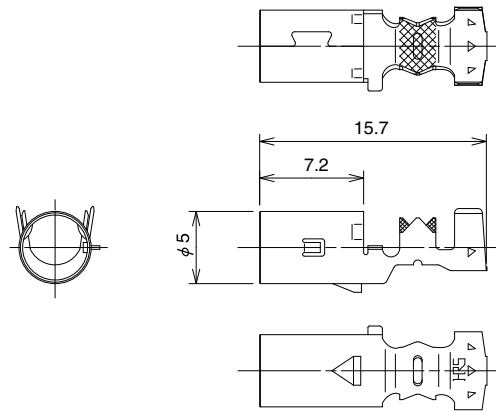
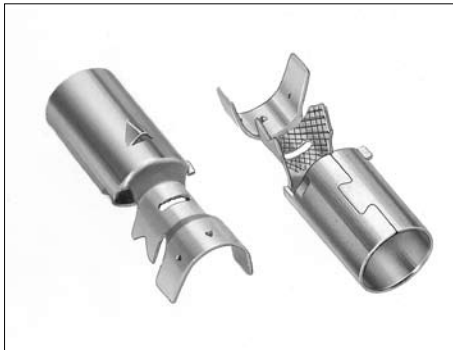
### ● Housing (Retainer Stopper Specification)



| Part Number    | HRS No.    | Material | Finish     | Packaging | RoHS |
|----------------|------------|----------|------------|-----------|------|
| GT16C-1S-HU    | 766-0010-3 | PBT      | Light Gray | 1 piece   | YES  |
| GT16C-1S-HU(A) | 766-0060-1 | PBT      | Brown      | 1 piece   |      |
| GT16C-1S-HU(B) | 766-0061-4 | PBT      | Green      | 1 piece   |      |

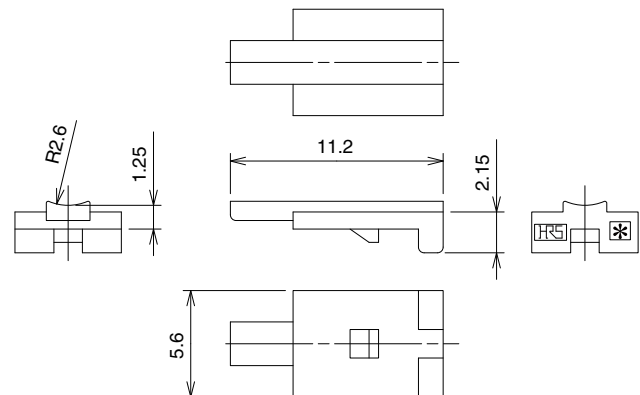
Note : This product is used in conjunction with retainer GT16C-1P/S-R (CL766-0011-6) which is a separate item.

### ● Outer terminal (Retainer Stopper Specification)



| Part Number      | HRS No.    | Applicable Cable      | Material        | Finish      | Packaging | RoHS |
|------------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16C-/1.6-2.9SC | 766-0012-9 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |
| GT16C-/0.7-1.5SC | 766-0057-7 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   |      |
| GT16C-/1.1-2.2SC | 766-0089-3 | 1.0D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   |      |

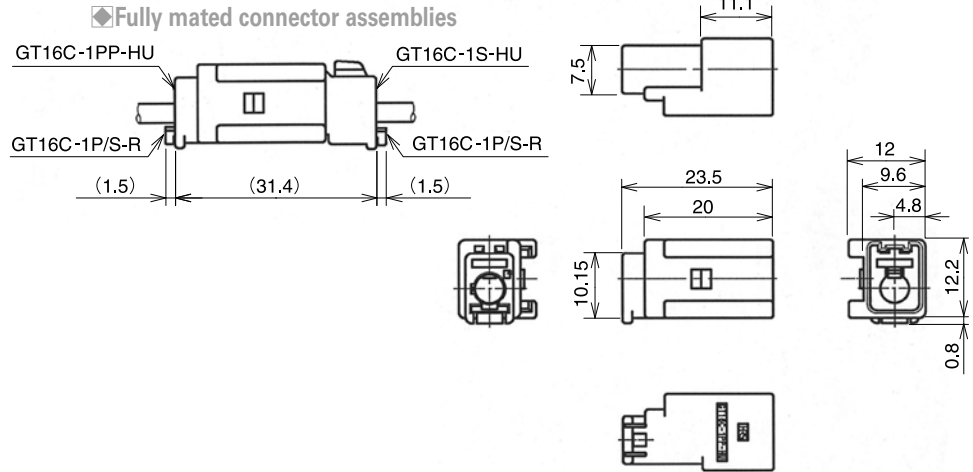
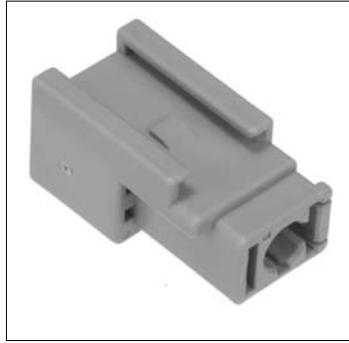
### ● Retainer



| Part Number  | HRS No.    | Material | Finish    | Packaging | RoHS |
|--------------|------------|----------|-----------|-----------|------|
| GT16C-1P/S-R | 766-0011-6 | PBT      | Dark Gray | 1 piece   | YES  |

## ■ Genuine Market Parts M Connectors

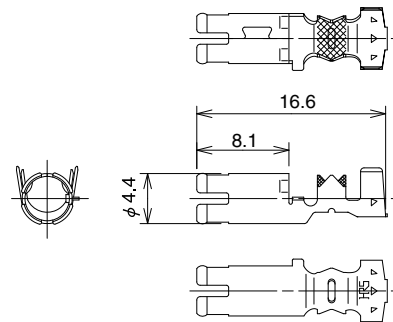
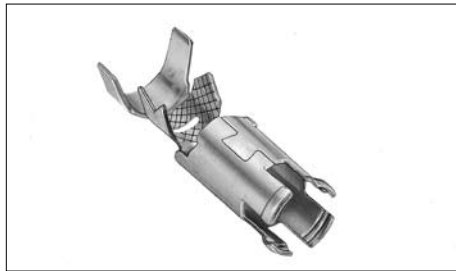
### ● Housing(Retainer Stopper Specification)



| Part Number     | HRS No.      | Material | Color      | Packaging | RoHS |
|-----------------|--------------|----------|------------|-----------|------|
| GT16C-1PP-HU    | CL766-0029-1 | PBT      | Light Gray | 1 piece   | YES  |
| GT16C-1PP-HU(A) | CL766-0064-2 | PBT      | Brown      | 1 piece   |      |
| GT16C-1PP-HU(B) | CL766-0065-5 | PBT      | Green      | 1 piece   |      |

Note: Use this product with separate retainer part GT16C-1P/S-R(CL766-0011-6).

### ● Outer terminal(Retainer Stopper Specification)

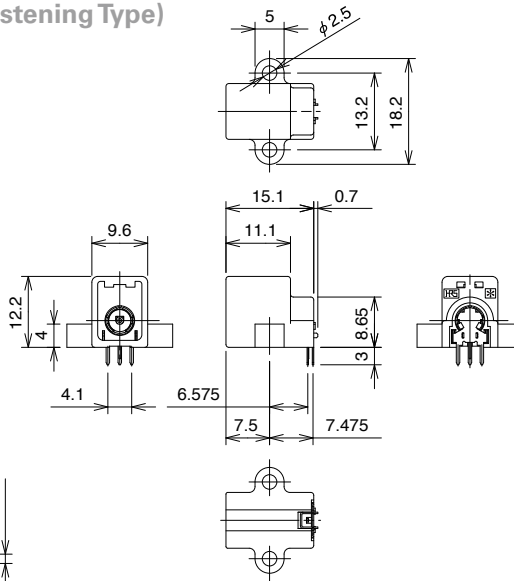
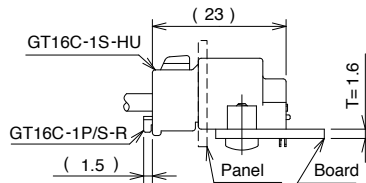


| Part Number      | HRS No.    | Applicable Cable      | Material        | Finish      | Packaging | RoHS |
|------------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16C-/1.6-2.9PC | 766-0019-8 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |
| GT16C-/0.7-1.5PC | 766-0018-5 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1 piece   |      |

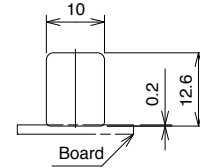
## ● Printed Circuit Board Type (Reinforced Lock and Screw Fastening Type)



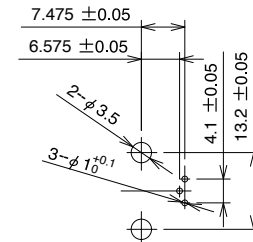
### ◆ Fully mated connector assemblies



### ◆ Recommended Panel Cut-out



### ◆ Recommended Board Mounting Pattern



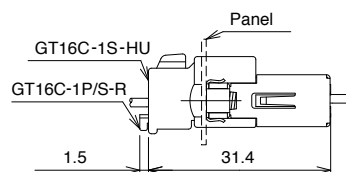
| Part Number    | HRS No.    | Material                          | Finish      | Packaging | RoHS |
|----------------|------------|-----------------------------------|-------------|-----------|------|
| GT16C-1P-DS    | 766-0013-1 | PBT(Housing)                      | Light Gray  | 1 piece   | YES  |
|                |            | Phosphor bronze (Innner Terminal) | Tin plating |           |      |
|                |            | Phosphor bronze (OuterTerminal)   | Tin plating |           |      |
|                |            | PPS (Insulator)                   | Natural     |           |      |
|                |            | Phosphor bronze (Shield plate)    | Tin plating |           |      |
| GT16C-1P-DS(A) | 766-0062-7 | PBT(Housing)                      | Brown       | 1 piece   |      |
|                |            | Phosphor bronze (Innner Terminal) | Tin plating |           |      |
|                |            | Phosphor bronze (OuterTerminal)   | Tin plating |           |      |
|                |            | PPS (Insulator)                   | Natural     |           |      |
|                |            | Phosphor bronze (Shield plate)    | Tin plating |           |      |
| GT16C-1P-DS(B) | 766-0063-0 | PBT(Housing)                      | Green       | 1 piece   |      |
|                |            | Phosphor bronze (Innner Terminal) | Tin plating |           |      |
|                |            | Phosphor bronze (OuterTerminal)   | Tin plating |           |      |
|                |            | PPS (Insulator)                   | Natural     |           |      |
|                |            | Phosphor bronze (Shield plate)    | Tin plating |           |      |

Note : Use mounting screws of M3 with nominal diameter 3L-6.

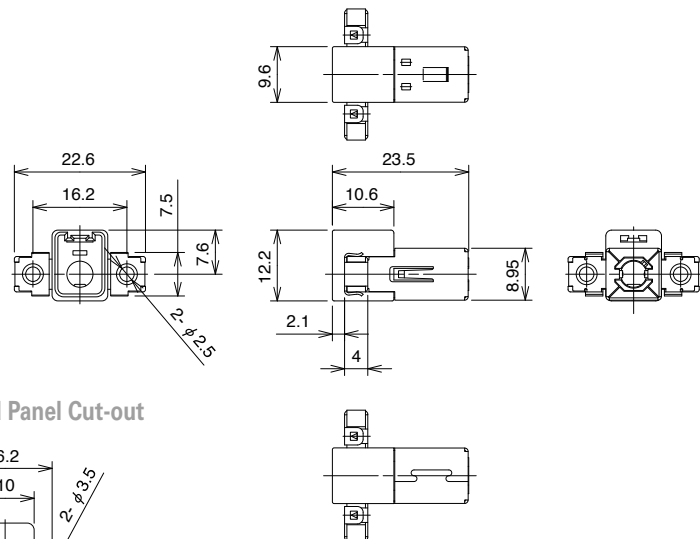
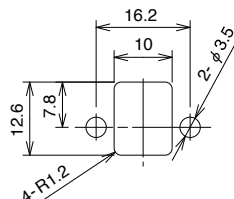
## ● Panel Mounting Type



### ◆ Fully mated connector assemblies



### ◆ Recommended Panel Cut-out



| Part Number   | HRS No.    | Material                       | Color/Finish | Packaging | RoHS |
|---------------|------------|--------------------------------|--------------|-----------|------|
| GT16CB-1PP-HU | 766-0017-2 | PBT (Housing)                  | Light Gray   | 1 piece   | YES  |
|               |            | Copper alloy (Ground terminal) | Tin plating  |           |      |

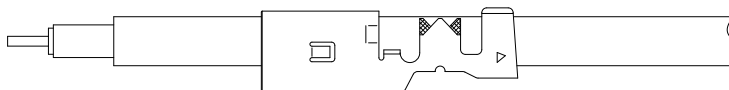
Note : Use mounting screws of M3 with nominal diameter 3L-6.

## ◆GT16G Wiring Method

1. Pass the cable through the outside tube.



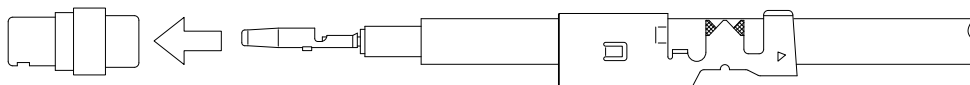
2. Strip the cable.



3. Crimp the center terminal.



4. Insert the crimped terminal into the Insulator.



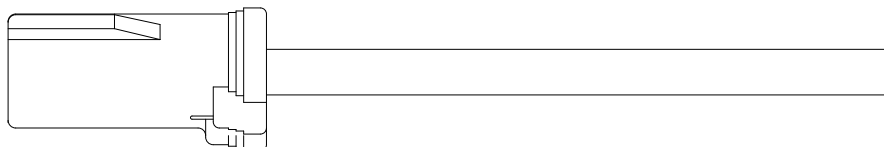
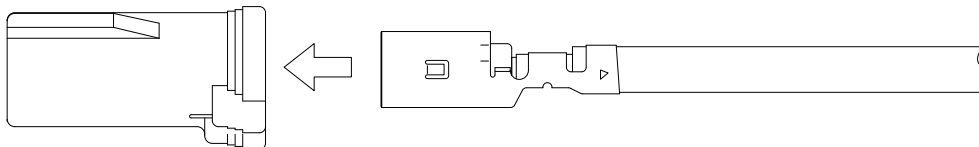
5. Insert the Insulator into the outside tube.



6. Crimp the outside tube.



7. Insert the terminal into the housing.



Completion



## ◆ F Connector Components Table

| Inner Terminal             | Insulator | Outer terminal   | Housing        | Retainer     |
|----------------------------|-----------|------------------|----------------|--------------|
| GT16-2428SCF<br>GT16-30SCF | GT16-SC   | GT16-/1.6-2.9SC  | GT16-1S-HU     | Not Used     |
|                            |           | GT16-/0.7-1.5SC  | GT16-1S-HU(P)  |              |
|                            |           | GT16-/1.1-2.2SC  |                |              |
|                            |           | GT16C-/1.6-2.9SC | GT16C-1S-HU    | GT16C-1P/S-R |
|                            |           | GT16C-/0.7-1.5SC | GT16C-1S-HU(A) |              |
|                            |           | GT16C-/1.1-2.2SC | GT16C-1S-HU(B) |              |

## ◆ Mating Table

| F Connectors | M Connectors  |
|--------------|---------------|
| GT16-1S-HU   | GT16-1P-HU    |
|              | GT16-1P-H     |
| GT16C-1S-HU  | GT16CB-1PP-HU |
|              | GT16C-1PP-HU  |
|              | GT16C-1P-DS   |

## ◆ M Connector Components Table

| Inner Terminal             | Insulator | Outer terminal   | Housing         | Retainer     |
|----------------------------|-----------|------------------|-----------------|--------------|
| GT16-2428PCF<br>GT16-30PCF | GT16-PC   | GT16-/1.6-2.9PC  | GT16-1P-HU      | Not Used     |
|                            |           | GT16-/0.7-1.5PC  | GT16-1P-HU(P)   |              |
|                            |           |                  | GT16CB-1PP-HU   |              |
|                            |           | GT16C-/1.6-2.9PC | GT16C-1PP-HU    | GT16C-1P/S-R |
|                            |           | GT16C-/0.7-1.5PC | GT16C-1PP-HU(A) |              |
|                            |           |                  | GT16C-1PP-HU(B) |              |

| Printed Circuit Board Type |
|----------------------------|
| GT16-1P-H                  |
| GT16-1P-H(P)               |
| GT16C-1P-DS                |
| GT16C-1P-DS(A)             |
| GT16C-1P-DS(B)             |

## ◆ Key Variation

| F Connectors   | M Connectors    |
|----------------|-----------------|
| GT16-1S-HU(P)  | GT16-1P-HU(P)   |
|                | GT16-1P-H(P)    |
| GT16C-1S-HU(A) | GT16C-1PP-HU(A) |
|                | GT16C-1P-DS(A)  |
| GT16C-1S-HU(B) | GT16C-1PP-HU(B) |
|                | GT16C-1P-DS(B)  |

## ◆ Tools

User's manuals are available. Please ask your Hirose Electric account representative.

### Automatic Crimping Machine



The photograph shows just one example. The product is subject to change.

Part Number CM-105

\* See the table below for the product number of the applicator.

### Specifications

| Item              | Specification | Remarks       |
|-------------------|---------------|---------------|
| Specification     | 1.5ton        |               |
| Stroke Length     | 30mm          |               |
| Number of strokes | 200spm (50Hz) | 240spm (60Hz) |
| Weight            | 75kg          |               |
| Motor             | 0.2kW         | AC100V        |
| Crimping speed    | 2,000~4,000/H |               |

### ● Harness Tool

| Product Number | HRS No.    | Applicator Product Number |
|----------------|------------|---------------------------|
| GT16-2428SCF   | 901-5108-4 | AP105-GT16-2428           |
| GT16-2428PCF   |            |                           |
| GT16-30PCF     | 901-5124-0 | AP105-GT16-30             |
| GT16-30SCF     |            |                           |

| Product Number   | HRS No.    | Jig                |
|------------------|------------|--------------------|
| GT16-/1.6-2.9SC  | 902-5058-4 | GT16-1.6-2.9/CK-MP |
| GT16C-/1.6-2.9SC |            |                    |
| GT16-/1.6-2.9PC  |            |                    |
| GT16C-/1.6-2.9PC |            |                    |
| GT16-/0.7-1.5PC  | 902-5064-7 | GT16-0.7-1.5/CK-MP |
| GT16C-/0.7-1.5PC |            |                    |
| GT16-/0.7-1.5SC  |            |                    |
| GT16C-/0.7-1.5SC |            |                    |

### Hand Press

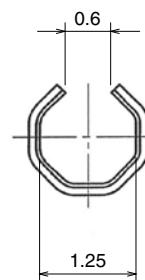
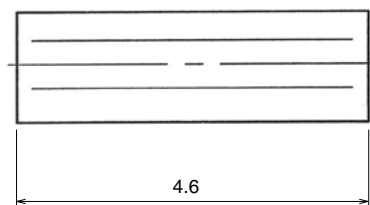
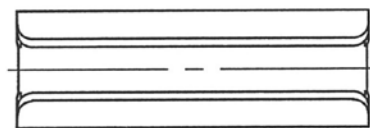


\* Crimp height setting tables are available for each cable type. Please contact your nearest Hirose Electric account representative. Different cables will require different crimp height settings.

## GT16G Series

## F and M Common Parts

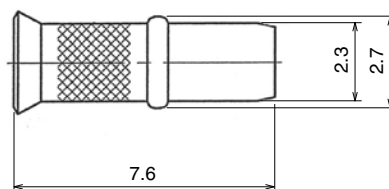
## ● Terminal Ferrule



| Part Number | HRS No.    | Material        | Finish      | Packaging | RoHS |
|-------------|------------|-----------------|-------------|-----------|------|
| GT16G-FR    | 766-0028-9 | Phosphor bronze | Tin plating | 1piece    | YES  |

## F and M Common Parts

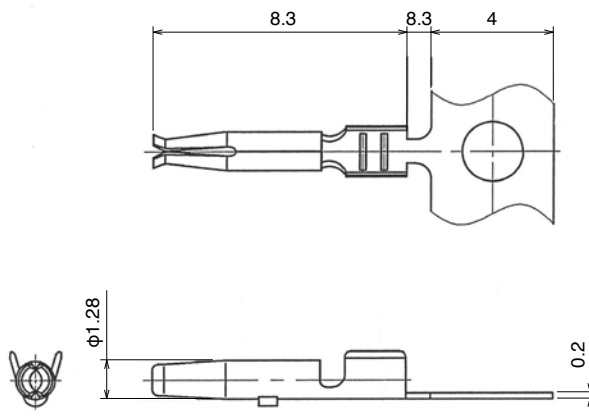
## ● Outer Ferrule



| Part Number   | HRS No.    | Material        | Finish      | Packaging | RoHS |
|---------------|------------|-----------------|-------------|-----------|------|
| GT16G-1.5DHQS | 766-0027-6 | Phosphor bronze | Tin plating | 1piece    | YES  |

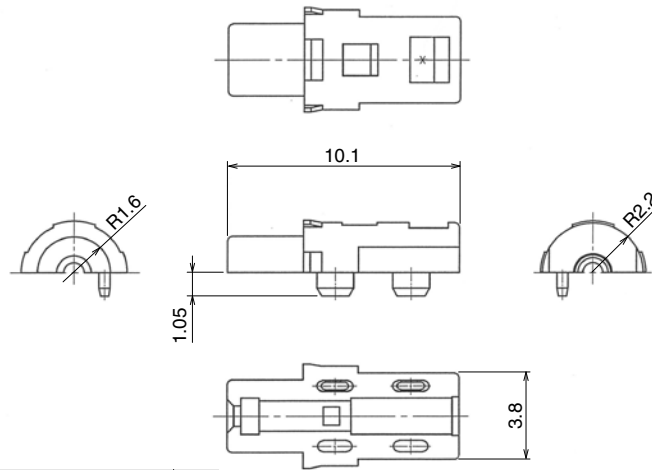
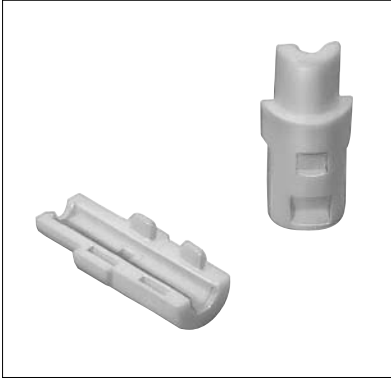
## F Common Parts

## ● Center Terminal



| Part Number   | HRS No.    | Conductor Size (AWG) | Material        | Finish      | Packaging       | RoHS |
|---------------|------------|----------------------|-----------------|-------------|-----------------|------|
| GT16G-2428SCF | 766-0022-2 | AWG#24~28            | Phosphor bronze | Tin plating | 10,000 pcs/reel | YES  |

## ● Insulator

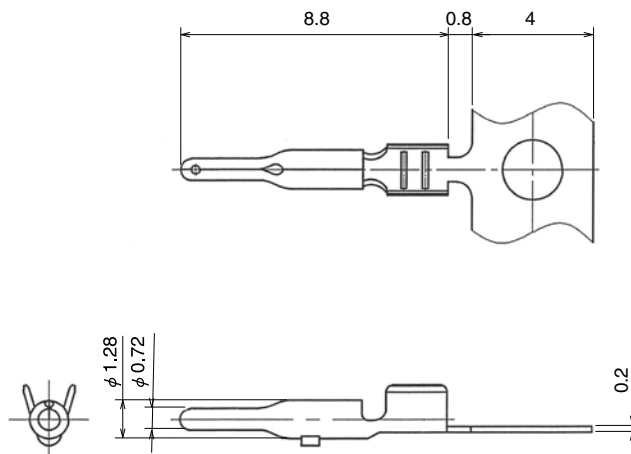


| Part Number | HRS No.    | Material | Color   | Packaging | RoHS |
|-------------|------------|----------|---------|-----------|------|
| GT16G-SC    | 766-0023-5 | PBT      | Natural | 1 piece   | YES  |

Note : Two of these products are used per connection.

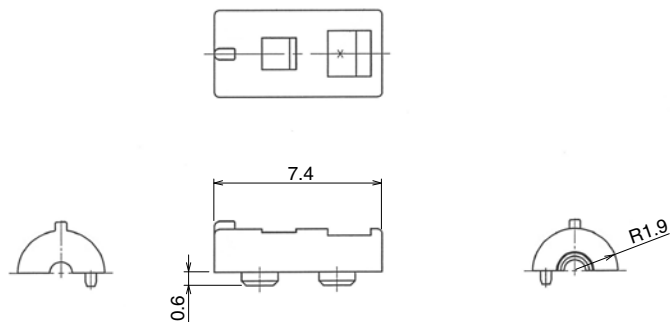
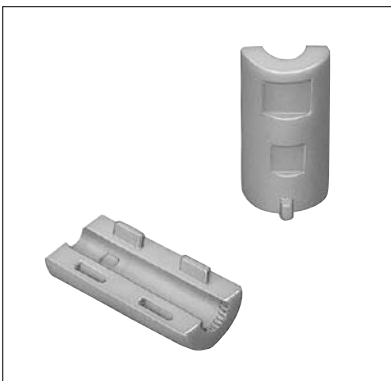
## M Common Parts

## ● Center Terminal



| Part Number   | HRS No.    | Conductor Size (AWG) | Material | Finish      | Packaging       | RoHS |
|---------------|------------|----------------------|----------|-------------|-----------------|------|
| GT16G-2428PCF | 766-0046-0 | AWG#24~28            | Brass    | Tin plating | 10,000 pcs/reel | YES  |
| GT16G-30PCF   | 766-0070-5 | AWG#30               | Brass    | Tin plating | 10,000 pcs/reel |      |

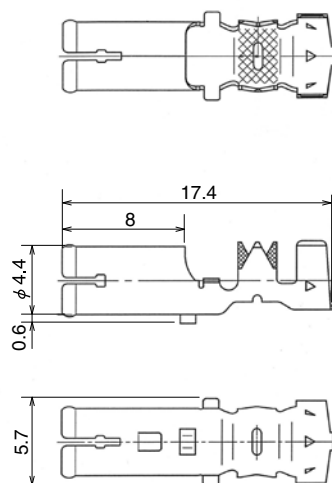
## ● Insulator



| Part Number | HRS No.    | Material | Color   | Packaging | RoHS |
|-------------|------------|----------|---------|-----------|------|
| GT16G-PC    | 766-0047-3 | PBT      | Natural | 1 piece   | YES  |
| GT16G-0.8PC | 766-0071-8 | PBT      | Natural | 1 piece   |      |

Note : Two of these products are used per connection.

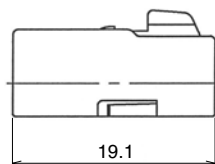
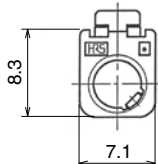
## ● Outer Terminal



| Part Number      | HRS No.    | Applicable cable      | Material        | Finish      | Packaging | RoHS |
|------------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16G-/1.6-2.9PC | 766-0048-6 | 1.5D-2W or equivalent | Phosphor bronze | Tin plating | 1piece    | YES  |
| GT16G-/0.7-1.5PC | 766-0072-0 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1piece    | YES  |

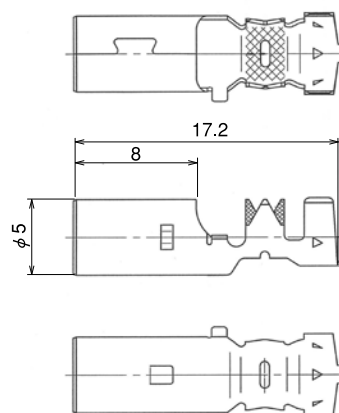
## ■ F Connector(No retainer required type)

### ● Housing



| Part Number  | HRS No.    | Material | Color | Packaging | RoHS |
|--------------|------------|----------|-------|-----------|------|
| GT16GM-1S-HU | 766-0033-9 | PBT      | Black | 1piece    | YES  |

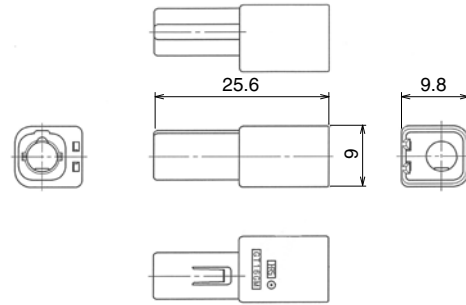
## ● Outer Terminal



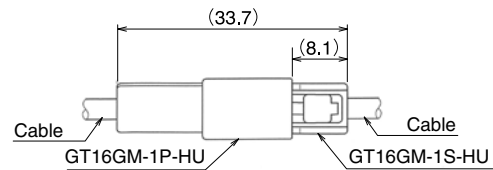
| Part Number       | HRS No.    | Applicable cable      | Material        | Finish      | Packaging | RoHS |
|-------------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16GM-/1.6-2.9SC | 766-0025-0 | 1.5D-2W or equivalent | Phosphor bronze | Tin plating | 1piece    | YES  |

## ■ M Connector(No retainer required type)

### ● Housing

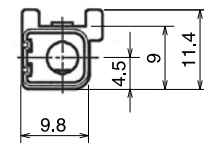
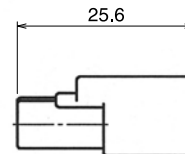
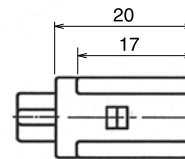


### ◆ Fully mated connector assemblies

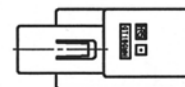
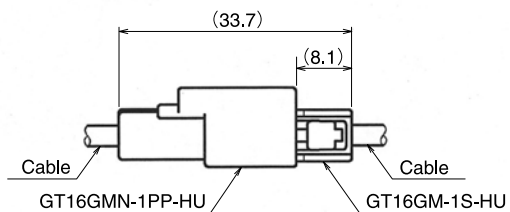


| Part Number  | HRS No.    | Material | Color | Packaging | RoHS |
|--------------|------------|----------|-------|-----------|------|
| GT16GM-1P-HU | 766-0050-8 | PBT      | Black | 1piece    | YES  |

### ● Housing (Bracket mounting type)



### ◆ Fully mated connector assemblies



| Part Number    | HRS No.    | Material | Color | Packaging | RoHS |
|----------------|------------|----------|-------|-----------|------|
| GT16GMN-1PP-HU | 766-0051-0 | PBT      | Black | 1piece    | YES  |

GT 5

GT 13

Coaxial cable connection of Antennas, Sensors, and Communication Trunk Lines

PO5G

GT 11

GT 17

GT 19

GT 26

GT 27

GT 3

GT 6W

GT 7

GT 10

GT 18W

GT 15

GT 8

GT 9

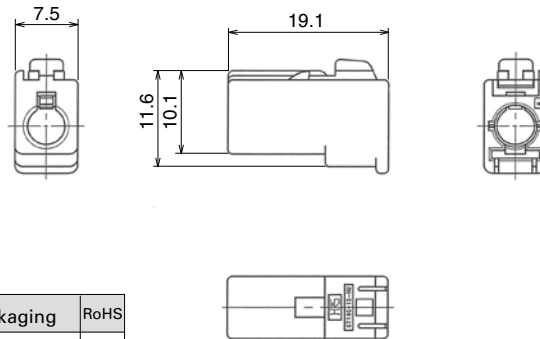
GT 25

GT 22



## ■ F Connector(Retainer required type)

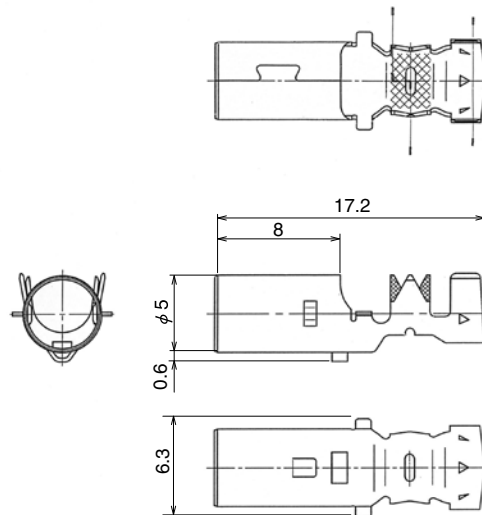
### ● Housings



| Part Number     | HRS No.       | Material | Color      | Packaging | RoHS |
|-----------------|---------------|----------|------------|-----------|------|
| GT16G-1S-HU     | 766-0026-3    | PBT      | Light Gray | 1 piece   | YES  |
| GT16G-1S-HU(24) | 766-0026-3-24 | PBT      | Black      | 1 piece   |      |

Note : Use this product with separate retainer part GT16C-1P/S-R (CL766-0011-6).

### ● Outer Terminal



| Part Number      | HRS No.    | Applicable cable      | Material        | Finish      | Packaging | RoHS |
|------------------|------------|-----------------------|-----------------|-------------|-----------|------|
| GT16G-/1.6-2.9SC | 766-0024-8 | 1.5D-2W or equivalent | Phosphor bronze | Tin plating | 1 piece   | YES  |

GT 5

GT 13

GT 16

PO5G

GT 11

GT 17

GT 19

GT 26

GT 27

GT 3

GT 6W

GT 7

GT 10

GT 18W

GT 15

GT 8

GT 9

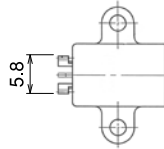
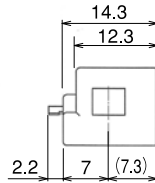
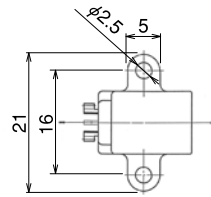
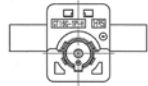
GT 25

GT 22

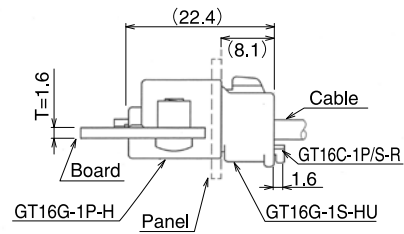


## Genuine Market Parts M Connectors

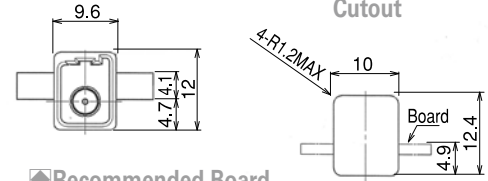
### ● Board Type (Screw Fastening Type)



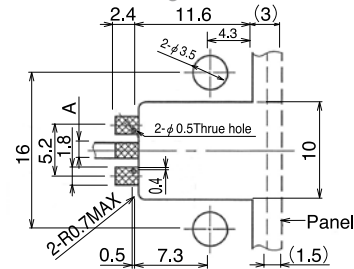
◆ Shown with inserted retainer



◆ Recommended Panel Cutout



◆ Recommended Board Mounting Pattern

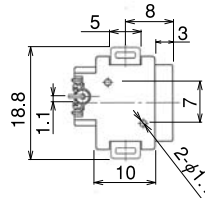
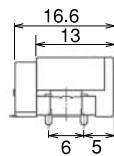
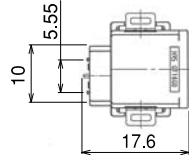
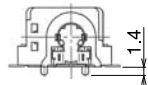


| Part Number | HRS No.    | Material                         | Color/Finish | Packaging | RoHS |
|-------------|------------|----------------------------------|--------------|-----------|------|
| GT16G-1P-H  | 766-0021-0 | PBT(Housing)                     | Light Gray   | 1piece    | YES  |
|             |            | Phosphor bronze (Inner terminal) | Tin plating  |           |      |
|             |            | Phosphor bronze (Outer terminal) | Tin plating  |           |      |
|             |            | PBT(Insulator)                   | Natural      |           |      |

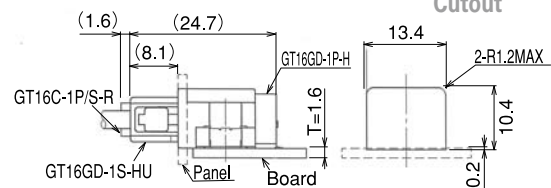
Note 1: Suitable mounting screws are JIS B 1122 pan head tapping screws class 2, nominal diameter 3, length 6.

Note 2: Use micro strip line and set so that dimension A has a characteristic impedance of 50Ω

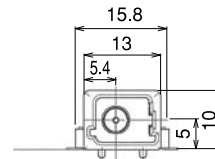
### ● Board Type (SMT Type)



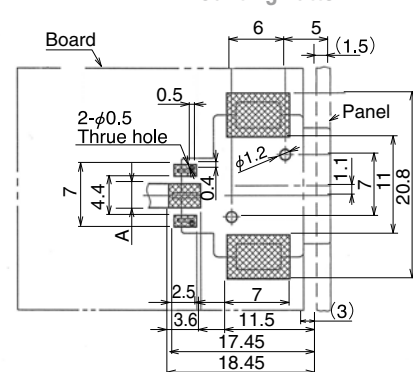
◆ Shown with inserted retainer



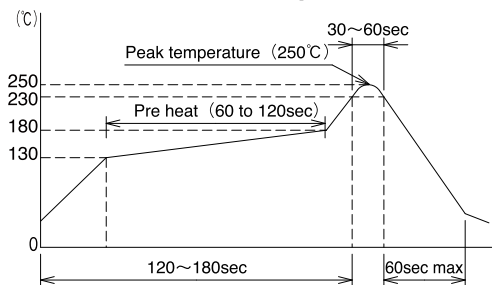
◆ Recommended Panel Cutout



◆ Recommended Board Mounting Pattern



◆ Recommended Temperature Profile



| Part Number | HRS No.    | Material                         | Color,Finish | Packaging    | RoHS |
|-------------|------------|----------------------------------|--------------|--------------|------|
| GT16GD-1P-H | 766-0044-5 | PPS(Housing)                     | Black        | 200 pcs/reel | YES  |
|             |            | Phosphor bronze (Inner terminal) | Tin plating  |              |      |
|             |            | Phosphor bronze (Outer terminal) | Tin plating  |              |      |
|             |            | PPS(Insulator left and right)    | Natural      |              |      |
|             |            | Phosphor bronze(Shield plate)    | Tin plating  |              |      |
|             |            | Brass (reinforced fittings)      | Tin plating  |              |      |

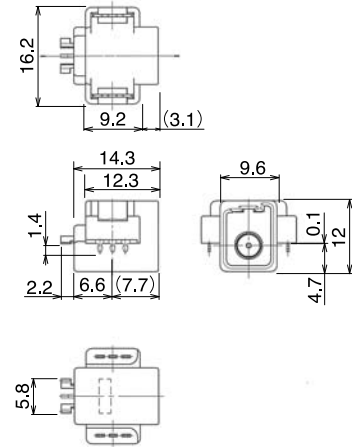
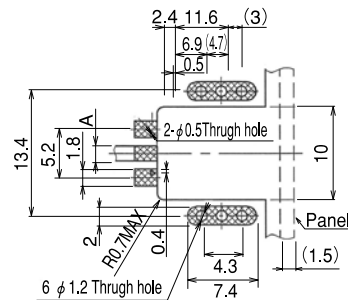
Note : Use micro strip line and set so that dimension A has a characteristic impedance of 50Ω .



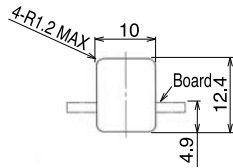
# ● Board Type (Lead Reflow Type)



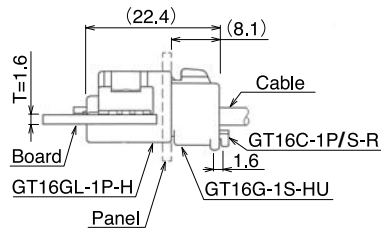
## ◆ Recommended Board Mounting Pattern



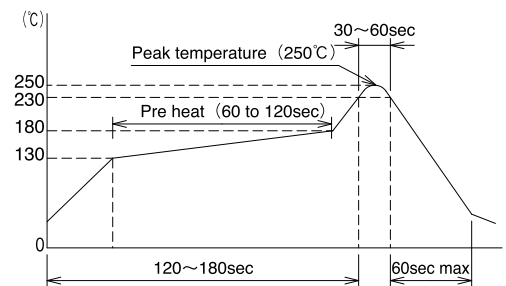
## ◆ Recommended Panel Cutout



## ◆ Shown with inserted retainer



## ◆ Recommended Temperature Profile



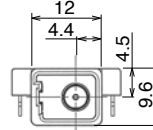
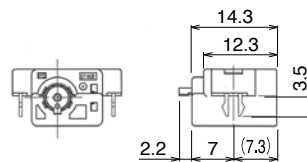
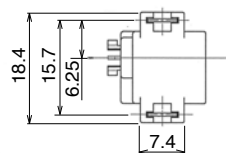
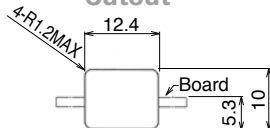
Note : Use micro strip line and set so that dimension A has a characteristic impedance of 50Ω .

| Part Number     | HRS No.       | Material                         | Color/Finish | Packaging    | RoHS |
|-----------------|---------------|----------------------------------|--------------|--------------|------|
| GT16GL-1P-H(70) | 766-0043-2-70 | PPS(Housing)                     | Light Gray   | 200 pcs/reel | YES  |
|                 |               | Phosphor bronze (Inner terminal) | Tin plating  |              |      |
|                 |               | Phosphor bronze (Outer terminal) | Tin plating  |              |      |
|                 |               | PBT(Insulator)                   | Natural      |              |      |
|                 |               | Brass (reinforced fittings)      | Tin plating  |              |      |
| GT16GL-1P-H(71) | 766-0043-2-71 | PPS(Housing)                     | Black        | 200 pcs/reel | YES  |
|                 |               | Phosphor bronze (Inner terminal) | Tin plating  |              |      |
|                 |               | Phosphor bronze (Outer terminal) | Tin plating  |              |      |
|                 |               | PBT(Insulator)                   | Natural      |              |      |
|                 |               | Brass (reinforced fittings)      | Tin plating  |              |      |

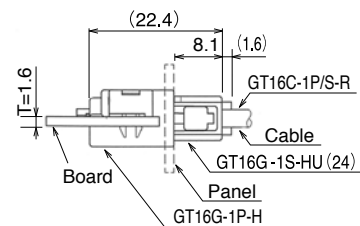
# ● Board Type (Lock Pin Type)



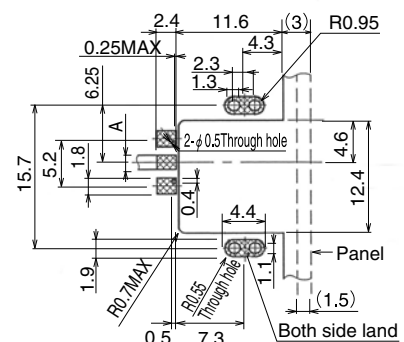
## ◆ Recommended Panel Cutout



## ◆ Shown with inserted retainer



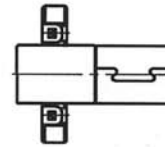
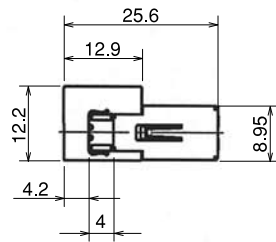
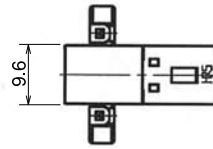
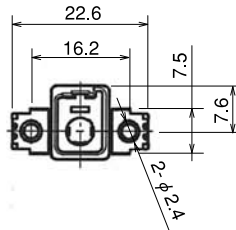
## ◆ Recommended Board Mounting Pattern



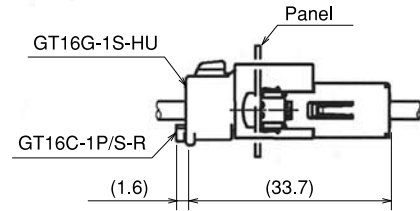
Note : Use micro strip line and set so that dimension A has a characteristic impedance of 50Ω .

| Part Number | HRS No.    | Material                         | Color/Finish | Packaging | RoHS |
|-------------|------------|----------------------------------|--------------|-----------|------|
| GT16GR-1P-H | 766-0059-2 | PBT(Housing)                     | Black        | 1piece    | YES  |
|             |            | Phosphor bronze (Inner terminal) | Tin plating  |           |      |
|             |            | Phosphor bronze (Outer terminal) | Tin plating  |           |      |
|             |            | PBT(Insulator)                   | Natural      |           |      |
|             |            | Brass (Lock pin)                 | Tin plating  |           |      |

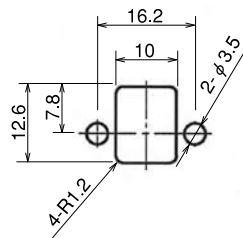
# ● Panel Mounting Type



## ◆ Fully mated connector assemblies

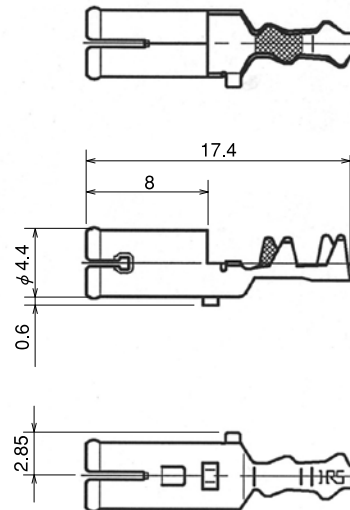


## ◆ Recommended Panel Cut-out



| Part Number   | HRS No.      | Material                       | Color/Finish | Packaging | RoHS |
|---------------|--------------|--------------------------------|--------------|-----------|------|
| GT16GB-1PP-HU | CL766-0074-6 | PBT (Housing)                  | Light Gray   | 1piece    | YES  |
|               |              | Copper alloy (Ground terminal) | Tin plating  |           |      |

# ● Outer terminal (Used with GT16GB-1PP-HU)



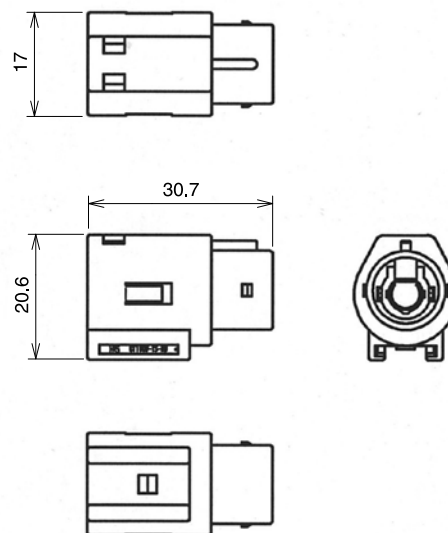
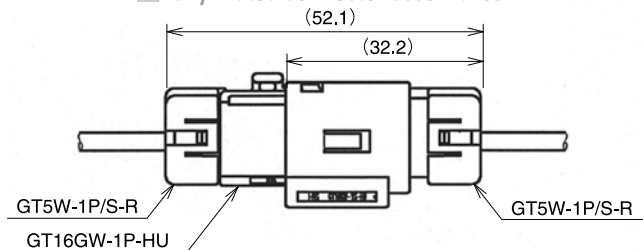
| Part Number       | HRS No.      | Applicable Cable      | Material        | Finish      | Packaging | RoHS |
|-------------------|--------------|-----------------------|-----------------|-------------|-----------|------|
| GT16GB-/0.7-1.5PC | CL766-0073-3 | 0.8D-2V or equivalent | Phosphor bronze | Tin plating | 1piece    | YES  |

## F Connector (Waterproof type)

### Housing



#### Fully mated connector assemblies

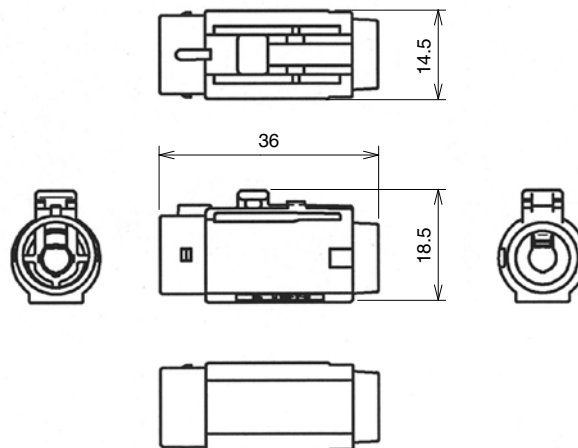


| Part Number  | HRS No.      | Material       | Color | Packaging | RoHS |
|--------------|--------------|----------------|-------|-----------|------|
| GT16GW-1S-HU | CL766-0076-1 | PBT            | Black | 1piece    | YES  |
|              |              | Silicon rubber | White |           |      |

Note: Assemble main parts with separated retainer part GT5W-1P/S-R (CL755-0028-5).

## M Connector (Waterproof type)

### Housing



| Part Number  | HRS No.      | Material       | Color | Packaging | RoHS |
|--------------|--------------|----------------|-------|-----------|------|
| GT16GW-1P-HU | CL766-0077-4 | PBT            | Black | 1piece    | YES  |
|              |              | Silicon rubber | White |           |      |

Note: Assemble main parts with separate retainer part GT5W-1P/S-R (CL755-0028-5).

GT 5

GT 13

Coaxial cable connection of Antennas, Sensors, and Communication Trunk Lines

PO5G

GT 11

GT 17

GT 19

GT 26

GT 27

GT 3

GT 6W

GT 7

GT 10

GT 18W

GT 15

GT 8

GT 9

GT 25

GT 22

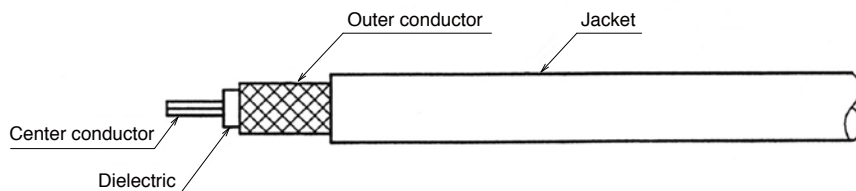
## GT16G Wiring Method

### 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.)

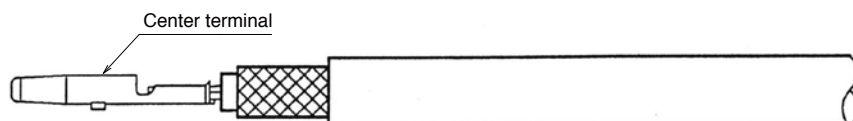
Note 3. Care must be taken so as not to damage the various cut portions of the center conductor, dielectric, and outer conductor.



### ②Crimp the center terminal with the special jig.

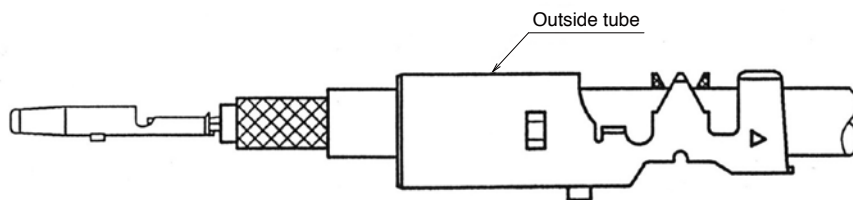
Note 1. See "Crimping Conditions Table" for information about the crimp height.

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



### ③Place the outside tube over the cable.

Note 1. Pay attention to the placement direction of the outside tube.



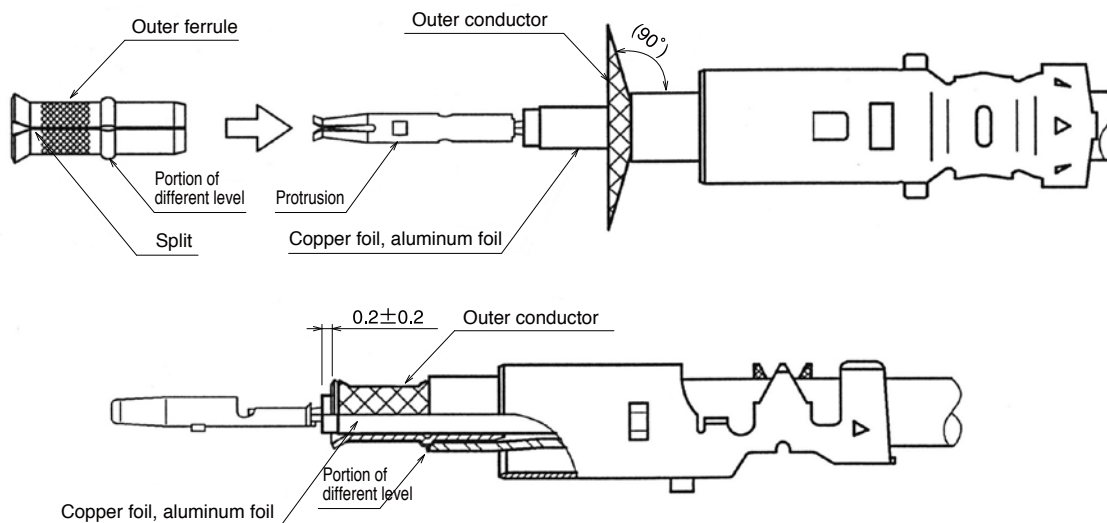
### ④Widen the external conductor with the special tool, place the outer ferrule, and return the external conductor over the outer ferrule.

Note 1. Spread only the outer conductor without unravelling. Copper foil or aluminum foil shall not be spread, but shall be on the inside of the outer ferrule.

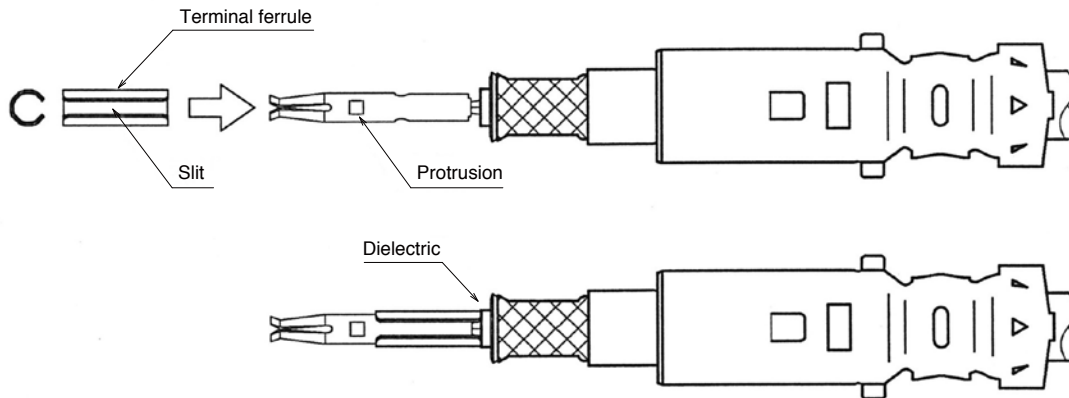
Note 2. The orientation of the outer ferrule shall be as indicated in the diagram. Align the slit of the outer ferrule with the protruding portion of the crimp terminal and insert.

Note 3. The outer ferrule shall be placed so that the portion of different level is inserted as far as the sheath end.

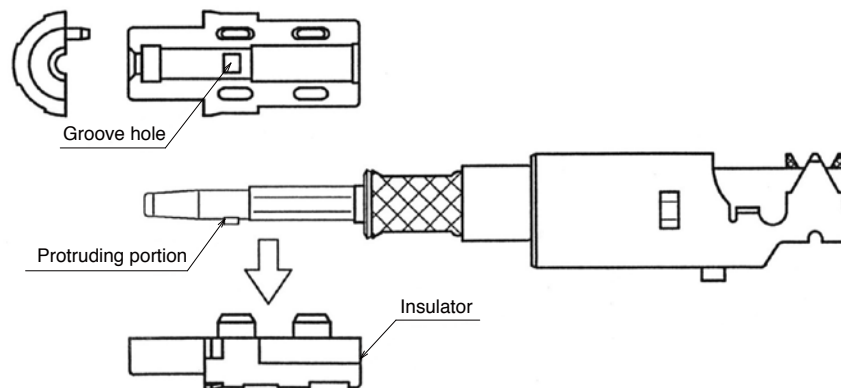
Note 4. Pay attention to pinching of the external conductor (i.e., biting into the sheath) during the placement.



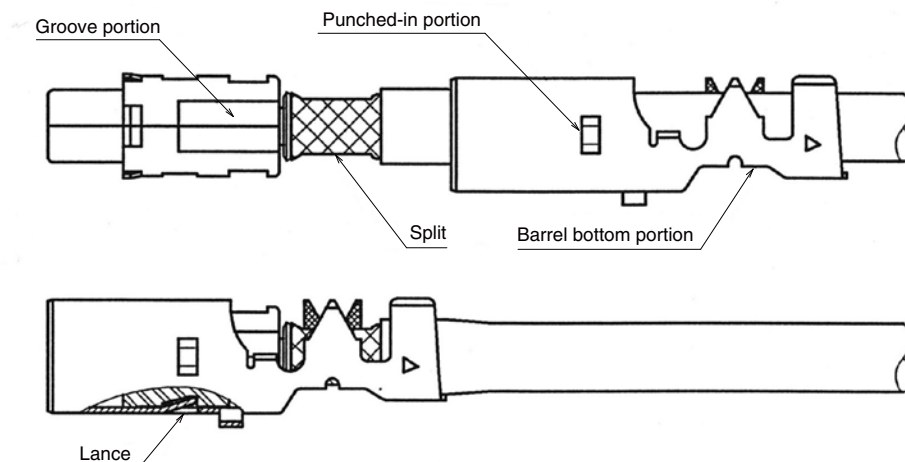
- ⑤ Using the special jig, insert the terminal ferrule from the coupling side of the crimp terminal until it reaches the end.  
 Note 1. Orient the terminal ferrule as illustrated in the diagram, align the slit portion of the terminal ferrule with the protruding portion of the crimp terminal, and then insert.



- ⑥ Set the aforementioned terminal block onto the insulator and enclose it from the top with one more insulator.  
 Note 1. Set the protruding portion of the crimp terminal in the groove hole of the insulator.  
 Note 2. Pull the cable with a force on the order of 4.9 N and check that the terminal block does not come out.



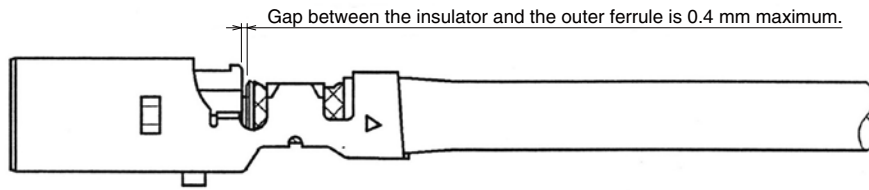
- ⑦ Use the special tool to cover the insulator with the outside tube, which was previously inserted.  
 Note 1. Orient the outside tube as illustrated in the diagram, align the punched-in portion of the outside tube with the groove portion of the insulator (so that at both left and right, the split of the outer ferrule is aligned with the barrel bottom portion of the outside tube), and then insert.  
 Note 2. Insert until the insulator stops at the lance of the outside tube.



⑧ Use the special jig to crimp the crimp terminal.

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

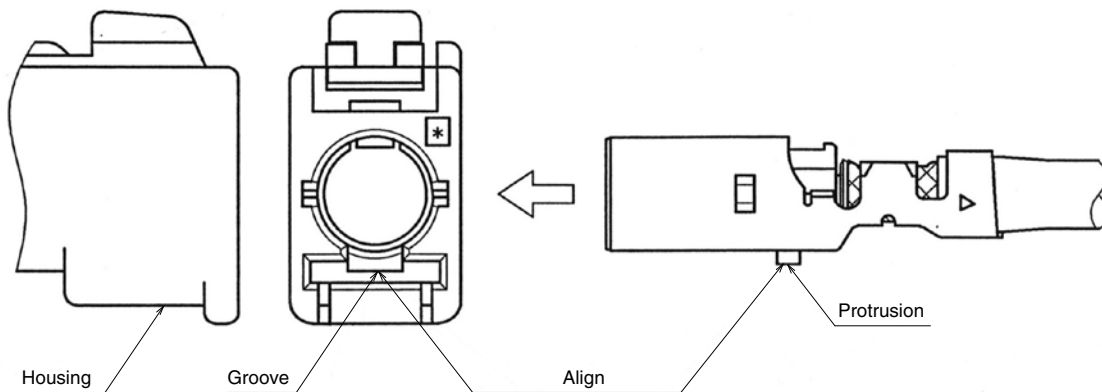
Note 2. See "Crimping Quality Standards Manual" for information about crimping standards.



⑨ Insert the aforementioned outside tube block into the housing.

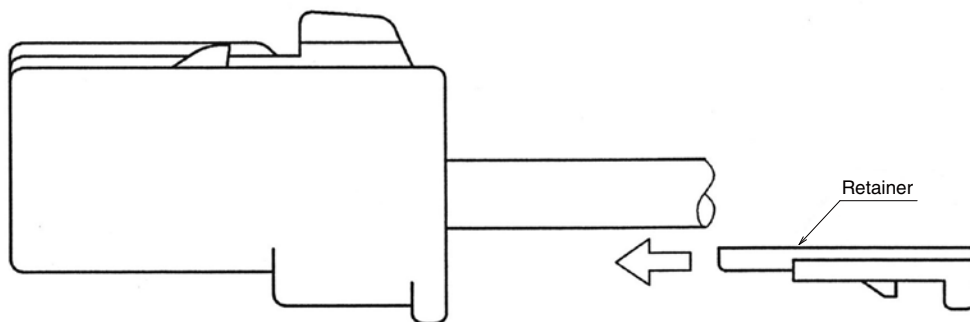
Note 1. Align the protruding portion of the outside tube with the groove portion of the housing, and then insert.

Note 2. Insert until the outside tube stops at the lance of the housing.

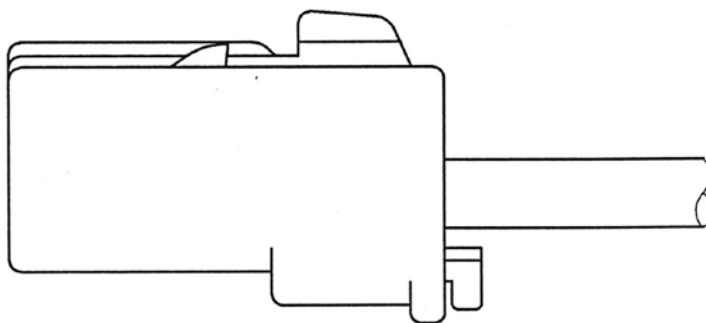


⑩ Insert the retainer into the housing.

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



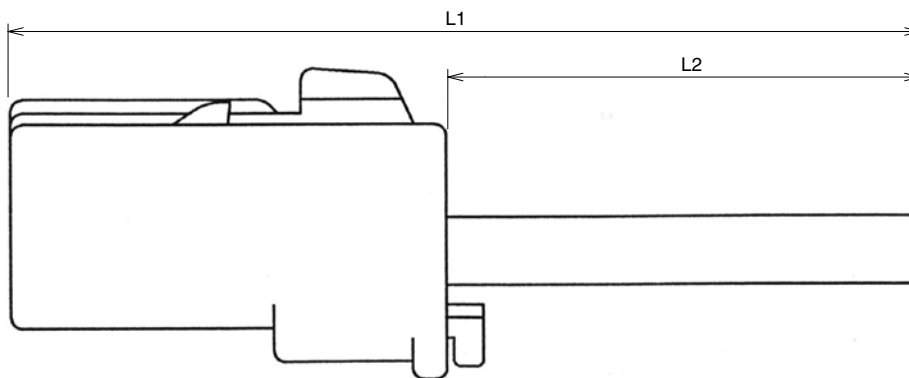
⑪ Inspect and complete the wiring.



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

Cut cable length:  $L1 - 8.1$

$L2 + 11.0$



GT 5

GT 13

GT 16

PO5G

GT 11

GT 17

GT 19

GT 26

GT 27

GT 3

GT 6W

GT 7

GT 10

GT 18W

GT 15

GT 8

GT 9

GT 25

GT 22

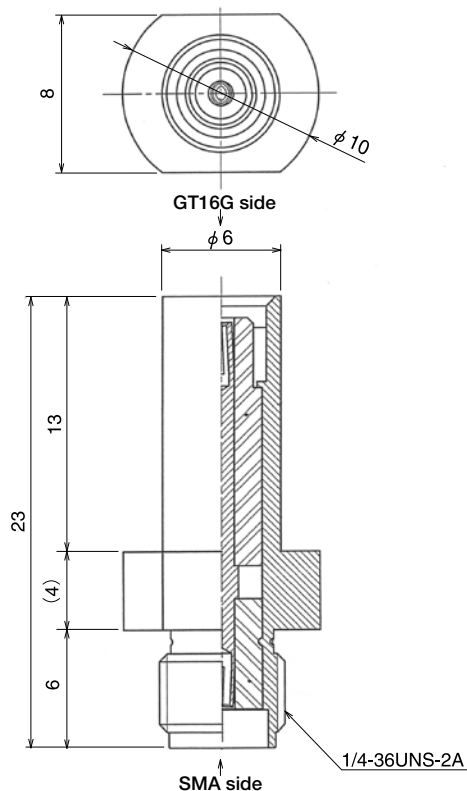
## Conversion Adapter

### ● SMA Conversion Adapter (coupling portion: GT16G side jack - SMA side jack)



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

| Part Number | HRS No.    | RoHS |
|-------------|------------|------|
| GT16GS-HRMJ | 766-0031-3 | YES  |

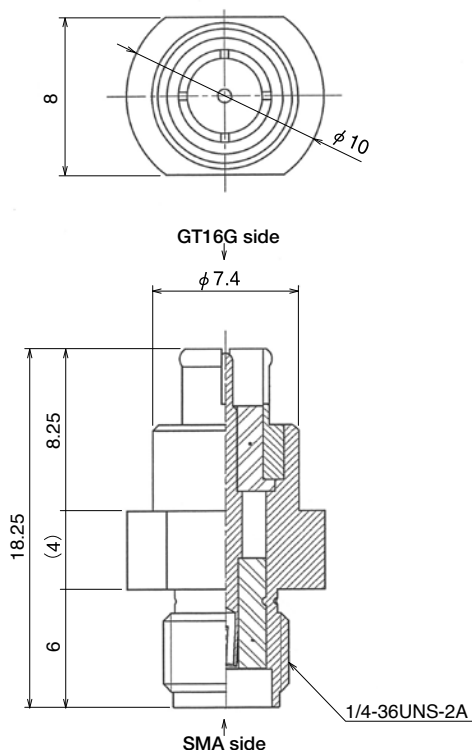


### ● SMA Conversion Adapter (coupling portion: GT16G side plug - SMA side jack)



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

| Part Number | HRS No.    | RoHS |
|-------------|------------|------|
| GT16GP-HRMJ | 766-0030-0 | YES  |





## ◆ F Connector Composition Table

| Terminal Ferrule | Outer Ferrule | Inner Terminal | Insulator | Outer Terminal    | Housing         | Retainer     |
|------------------|---------------|----------------|-----------|-------------------|-----------------|--------------|
| GT16G-FR         | GT16G-1.5DHQS | GT16G-2428SCF  | GT16G-SC  | GT16GM-/1.6-2.9SC | GT16GM-1S-HU    | Not used     |
|                  |               |                |           | GT16G-/1.6-2.9SC  | GT16G-1S-HU     | GT16C-1P/S-R |
|                  |               |                |           |                   | GT16G-1S-HU(24) |              |
|                  |               |                |           |                   | GT16GD-1S-HU    |              |
|                  |               |                |           |                   | GT16GW-1S-HU    | GT5W-1P/S-R  |

## ◆ M Connector Composition Table

| Terminal Ferrule | Outer Ferrule | Inner Terminal | Insulator | Outer Terminal   | Housing        | Retainer    |
|------------------|---------------|----------------|-----------|------------------|----------------|-------------|
| GT16G-FR         | GT16G-1.5DHQS | GT16G-2428PCF  | GT16G-PC  | GT16G-/1.6-2.9PC | GT16GM-1P-HU   | Not used    |
|                  |               |                |           |                  | GT16GMN-1PP-HU |             |
|                  |               |                |           |                  | GT16GW-1P-HU   | GT5W-1P/S-R |

| Terminal Ferrule | Outer Ferrule | Inner Terminal | Insulator   | Outer Terminal    | Housing        | Retainer |
|------------------|---------------|----------------|-------------|-------------------|----------------|----------|
| Not used         | Not used      | GT16G-30PCF    | GT16G-0.8PC | GT16G-/0.7-1.5PC  | GT16GM-1P-HU   | Not used |
|                  |               |                |             | GT16GB-/0.7-1.5PC | GT16GMN-1PP-HU |          |
|                  |               |                |             |                   | GT16GB-1PP-HU  |          |

| Board Type      |
|-----------------|
| GT16GM-1P-H     |
| GT16GMP-1P-H    |
| GT16G-1P-H      |
| GT16GL-1P-H(70) |
| GT16GL-1P-H(71) |
| GT16GR-1P-H     |
| GT16GD-1P-H     |

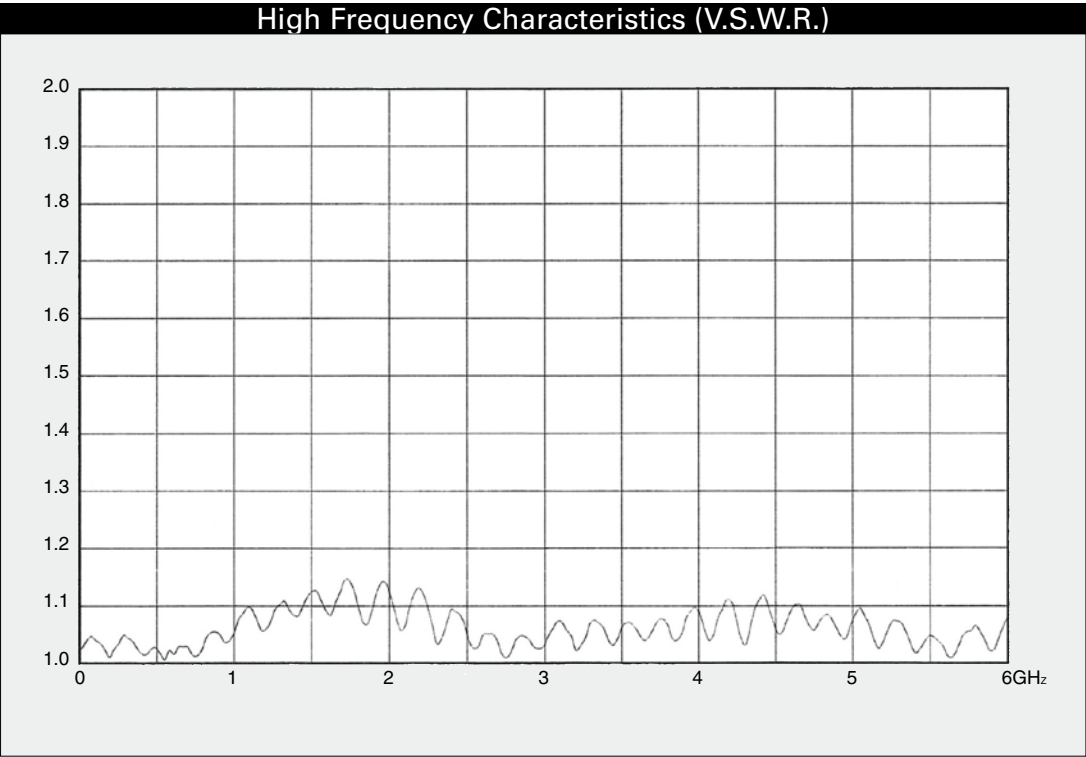
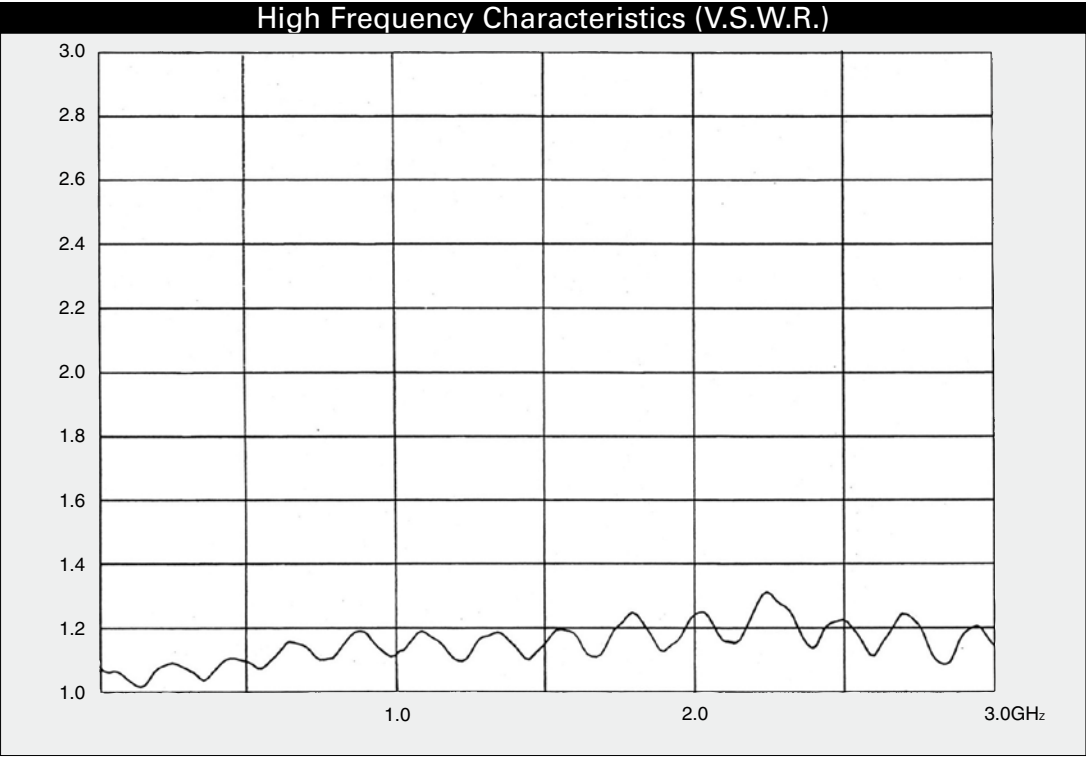
## ◆ Mating Table

| F Connector     | M Connector     |
|-----------------|-----------------|
| GT16GM-1S-HU    | GT16GM-1P-H     |
|                 | GT16GMP-1P-H    |
|                 | GT16GM-1P-HU    |
|                 | GT16GMN-1PP-HU  |
| GT16G-1S-HU     | GT16G-1P-H      |
|                 | GT16GL-1P-H(70) |
|                 | GT16GB-1PP-HU   |
|                 | GT16GL-1P-H(71) |
| GT16G-1S-HU(24) | GT16GR-1P-H     |
| GT16GD-1S-HU    | GT16GD-1P-H     |

## ◆ Wiring Tools

| Applicable Connectors |                                  | GT16GM-1S-HU<br>GT16G-1S-HU<br>GT16G-1S-HU(24)<br>GT16GD-1S-HU                                                             | GT16GM-1P-HU<br>GT16GMN-1PP-HU                                                                                             | GT16GB-1PP-HU                                                                                                              |
|-----------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Process 1             | Cable strip processing           | Schleuniger MP257, etc. (Commercial product)                                                                               | Schleuniger MP257, etc. (Commercial product)                                                                               | Schleuniger MP257, etc. (Commercial product)                                                                               |
| Process 2             | Center terminal crimping         | Crimping machine body type 105<br>AP105-GT16G-2428S                                                                        | Crimping machine body type 105<br>AP105-GT16G-2428P                                                                        | Crimping machine body type 105<br>AP105-GT16G-30P                                                                          |
| Process 3             | Cable forming                    | Shield forming tool<br>GT16G-1.5DHQS/CF-MD                                                                                 | Shield forming tool<br>GT16G-1.5DHQS/CF-MD                                                                                 | —                                                                                                                          |
| Process 4             | Outside ferrule insertion        | Outside ferrule insertion tool<br>GT16G-1.5DHQS/PR-MD                                                                      | Outside ferrule insertion tool<br>GT16G-1.5DHQS/PR-MD                                                                      | —                                                                                                                          |
| Process 5             | Terminal ferrule insertion       | Terminal ferrule insertion tool<br>GT16G-FR/PR-MD                                                                          | Terminal ferrule insertion tool<br>GT16G-FR/PR-MD                                                                          | Terminal ferrule insertion tool<br>GT16G-FR/PR-MD                                                                          |
| Process 6             | Insulated washer assembly        | Manual task                                                                                                                | Manual task                                                                                                                | Manual task                                                                                                                |
| Process 7             | Outside tube insertion           | Insulated washer press tool<br>GT16G-SC/PR-MD                                                                              | —                                                                                                                          | —                                                                                                                          |
| Process 8             | Outside tube tightening          | Hand press MOS-7<br>GT16G-1.6-2.9S/CK-MP                                                                                   | Hand press HOS-7<br>GT16G-1.6-2.9P/CK-MP                                                                                   | Hand press HOS-7<br>GT16G-0.7-1.5P/CK-MP                                                                                   |
| Process 9             | Housing, (retainer) installation | Manual task                                                                                                                | Manual task                                                                                                                | Manual task                                                                                                                |
| Process 10            | Inspection                       | High frequency characteristics test (Complete)<br>Continuity / Withstand voltage test<br>Inspection of external appearance | High frequency characteristics test (Complete)<br>Continuity / Withstand voltage test<br>Inspection of external appearance | High frequency characteristics test (Complete)<br>Continuity / Withstand voltage test<br>Inspection of external appearance |

◆ Test Data (Using 1.5D-2W Type cable)



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