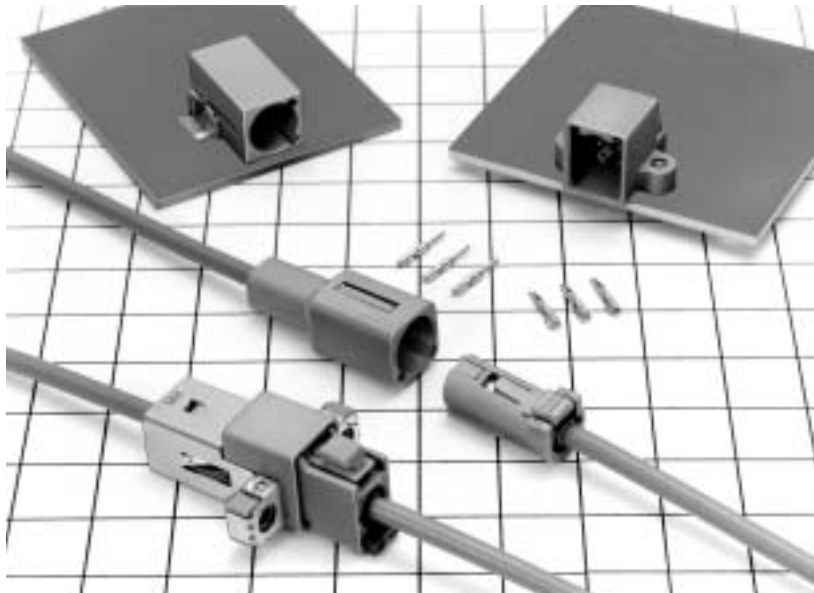


# GT16 Series

## — Subminiature Connectors for coaxial cables —

<Several types and configurations: In-line, board mounted, combinations of coaxial cable with signal/power. Multi-position and color/ keying variations.>



### ■ Features

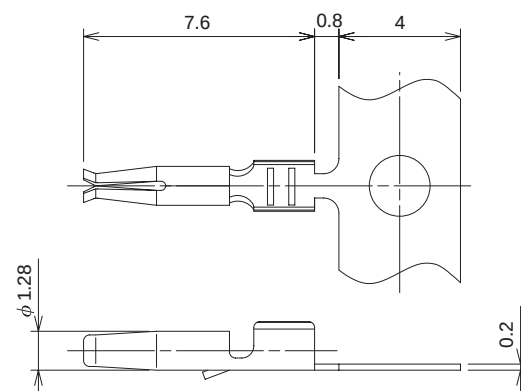
- **Cost efficient termination**  
Highly efficient and reliable single motion "Twin crimp™" termination allows high volume production with semi-automatic equipment.
- **Space-saving Design**
- **Lock-release latching system**
- **Shock / vibration resistant electrical connections**
- **Verification of the full contact insertion**
- **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, variety of communication equipment, office automation equipment, LAN systems.

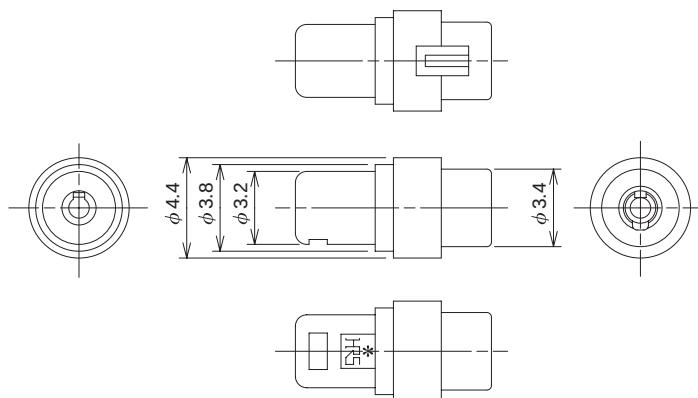
## F Connectors (Common Use)

### ● Inner terminal



| Part Number  | CL No.     | Conductor Size (AWG) | Material        | Finish      | Packaging              |
|--------------|------------|----------------------|-----------------|-------------|------------------------|
| GT16-2428SCF | 766-0001-2 | AWG#24-28            | Phosphor bronze | Tin plating | 10,000 pieces per reel |

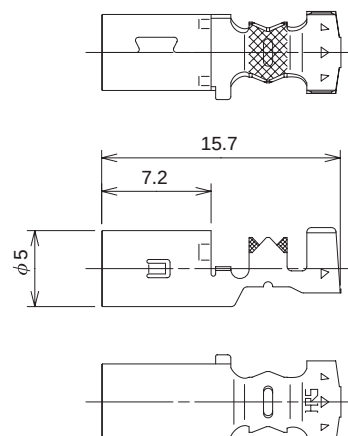
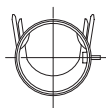
### ● Insulator (Common Use)



| Part Number | CL No.     | Material | Finish | Packaging |
|-------------|------------|----------|--------|-----------|
| GT16-SC     | 766-0002-5 | PBT      | White  | 1         |

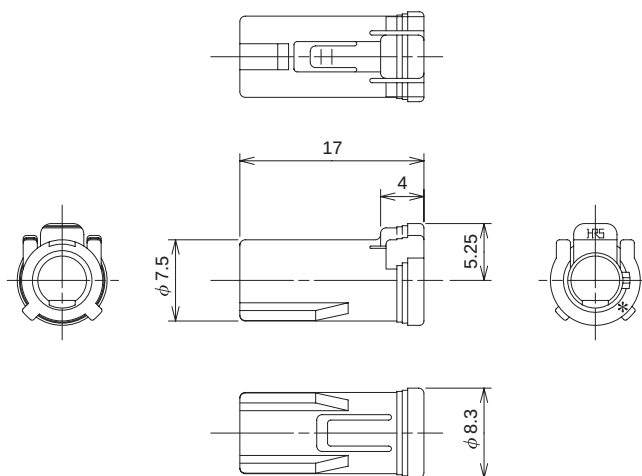
## After Market

### ● Outer terminal



| Part Number     | CL No.     | Applicable Cable      | Material        | Finish      | Packaging |
|-----------------|------------|-----------------------|-----------------|-------------|-----------|
| GT16-/1.6-2.9SC | 766-0003-8 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1         |

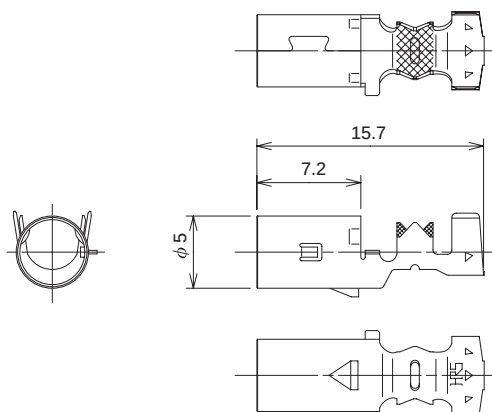
## ● Housing



| Part Number | CL No.     | Material | Finish     | Packaging |
|-------------|------------|----------|------------|-----------|
| GT16-1S-HU  | 766-0004-0 | PBT      | Light gray | 1         |

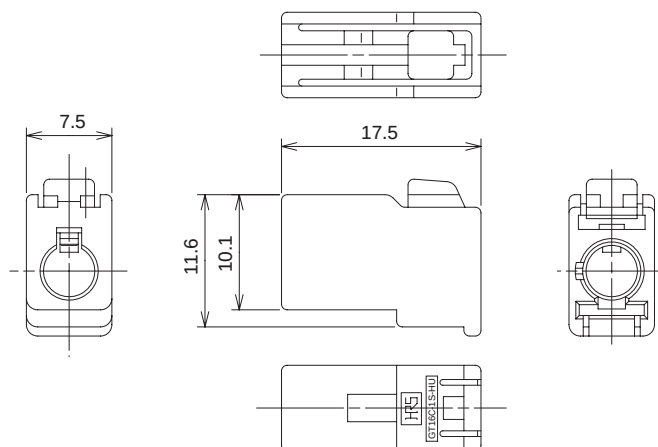
## ■ Genuine Market

### ● Outer terminal (Retainer Stopper Specification)



| Part Number     | CL No.     | Applicable Cable      | Material        | Finish      | Packaging |
|-----------------|------------|-----------------------|-----------------|-------------|-----------|
| GT16C-1.6-2.9SC | 766-0012-9 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1         |

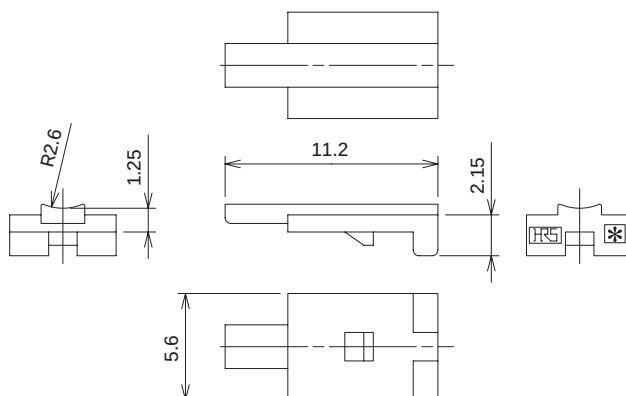
### ● Housing (Retainer Stopper Specification)



| Part Number | CL No.     | Material | Finish     | Packaging |
|-------------|------------|----------|------------|-----------|
| GT16C-1S-HU | 766-0010-3 | PBT      | Light gray | 1         |

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

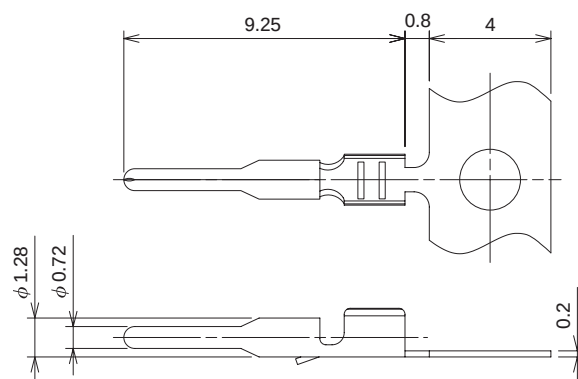
## ● Retainer



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

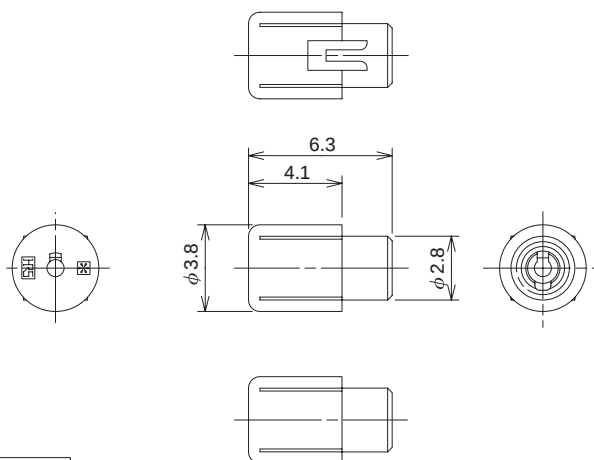
## M Connectors (Common Use)

### ● Inner Terminals



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

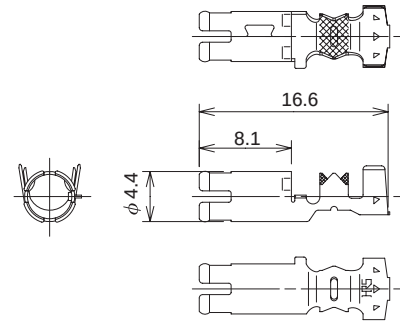
### ● Insulator (Common Use)



| Part Number | CL No.     | Material | Finish | Packaging |
|-------------|------------|----------|--------|-----------|
| GT16-PC     | 766-0007-9 | PBT      | White  | 1         |

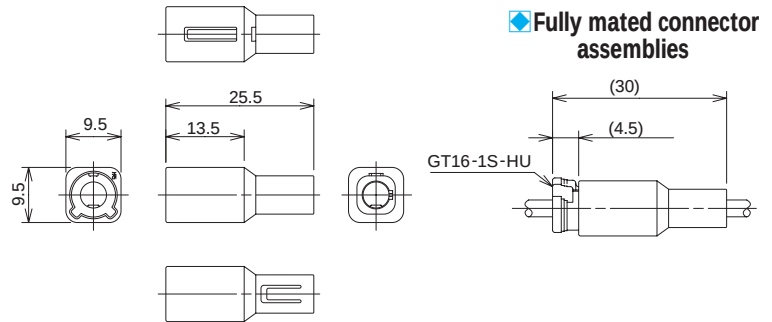
## After Market

### ● Outer terminals



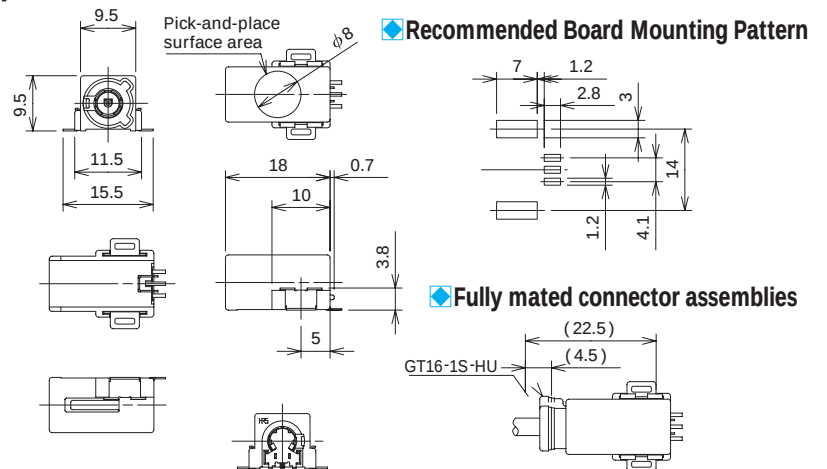
| Part Number     | CL No.     | Applicable Cable      | Material        | Finish      | Packaging |
|-----------------|------------|-----------------------|-----------------|-------------|-----------|
| GT16-1.6-2.9PC  | 766-0008-1 | 1.5D-2V or equivalent | Phosphor bronze | Tin plating | 1        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

### ● Housing

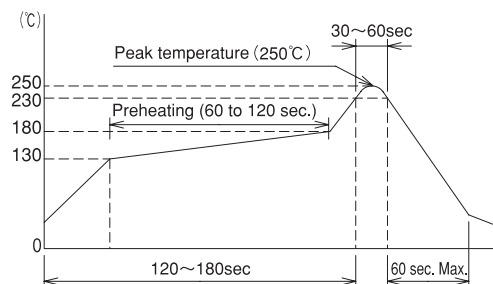


| Part Number | CL No.     | Material | Finish     | Packaging |
|-------------|------------|----------|------------|-----------|
| GT16-1P-HU  | 766-0009-4 | PBT      | Light gray | 1         |

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



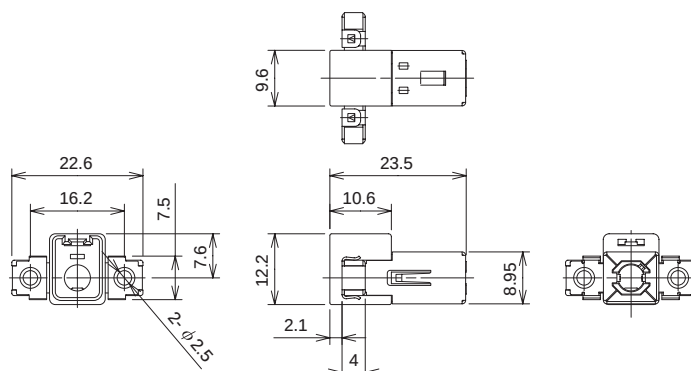
#### ◆ Recommended Reflow Temperature Profile



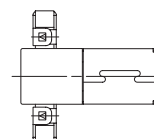
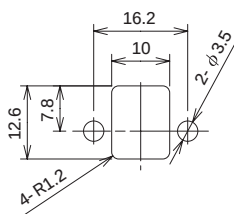
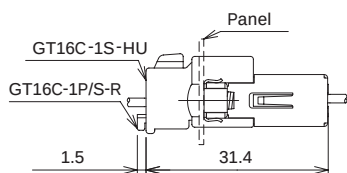
| Part Number | CL No.     | Material                       | Finish            | Packaging |
|-------------|------------|--------------------------------|-------------------|-----------|
| GT16-1P-H   | 766-0005-3 | PPS(Housing)                   | Color: Light gray | 1         |
|             |            | Phosphor bronze (Terminal)     | Tin plating       |           |
|             |            | Phosphor bronze (Terminal)     | Tin plating       |           |
|             |            | PPS (Insulator)                | Color: Natural    |           |
|             |            | Phosphor bronze (Shield plate) | Tin plating       |           |
|             |            | Brass (Metal fitting)          | Tin plating       |           |

## Genuine Market

### ● Panel Mounting Type



#### ◆ Fully mated connector assemblies ◆ Recommended Panel Cut-out



| Part Number   | CL No.     | Material                       | Finish            | Packaging |
|---------------|------------|--------------------------------|-------------------|-----------|
| GT16CB-1PP-HU | 766-0017-2 | PBT (Housing)                  | Color: Light gray | 1         |
|               |            | Copper alloy (Ground terminal) | Tin plating       | 1         |

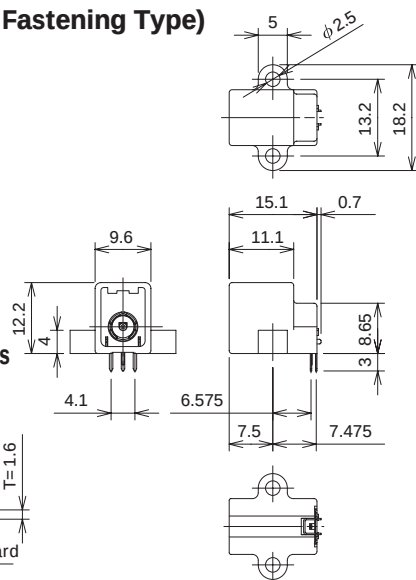
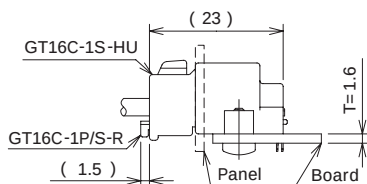
Note 1: Use mounting screws of M3 with nominal diameter 3L-6.

Note 2: Please use GT16-\*\*-\*\* PC type Outer terminals for insertion into this product.

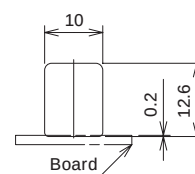
### ● Printed Circuit Board Type (Reinforced Lock and Screw Fastening Type)



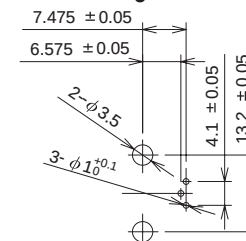
#### ◆ Fully mated connector assemblies



#### ◆ Recommended Panel Cut-out



#### ◆ Recommended Board Mounting Pattern

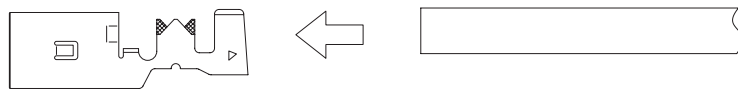


| Part Number | CL No.     | Material                       | Finish            | Packaging |
|-------------|------------|--------------------------------|-------------------|-----------|
| GT16C-1P-DS | 766-0013-1 | PPS(Housing)                   | Color: Light gray | 1         |
|             |            | Phosphor bronze (Terminal)     | Tin plating       |           |
|             |            | Phosphor bronze (Terminal)     | Tin plating       |           |
|             |            | PPS (Insulator)                | Color: Natural    |           |
|             |            | Phosphor bronze (Shield plate) | Tin plating       |           |

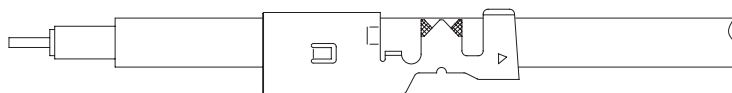
Note 1: Use mounting screws of M3 with nominal diameter 3L-6.

## ◆ Termination sequence

1. Pass the cable through the outside tube.



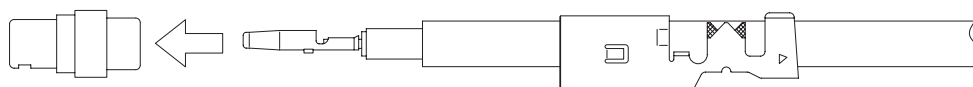
2. Strip the cable.



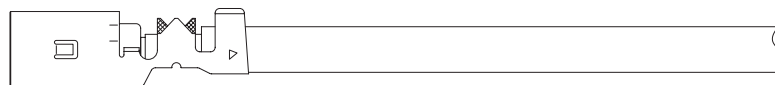
3. Crimp the center terminal.



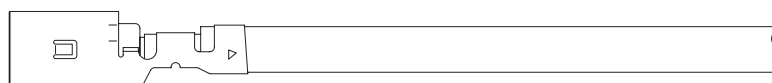
4. Insert the crimped terminal into the Insulator seat.



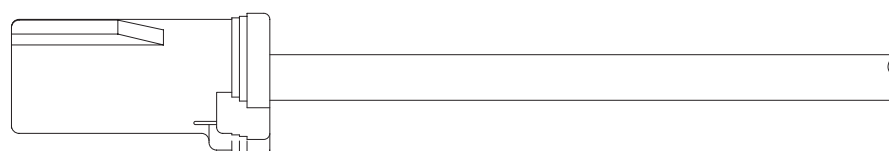
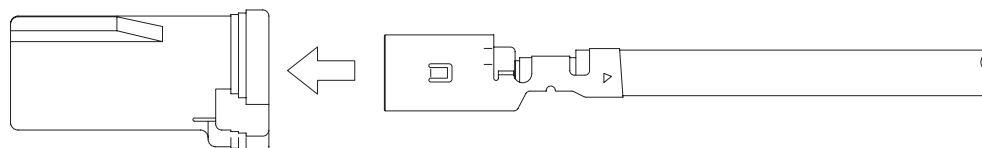
5. Insert the Insulator seat into the outside tube.



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   | GT16-SC   | GT16-/1.6-2.9SC  | GT16-1S-HU  | —            |
|                |           | GT16C-/1.6-2.9SC | GT16C-1S-HU | GT16C-1P/S-R |

## ◆ Mating Table

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

## ◆ M Connector Components Table

| Inner Terminal | Insulator | Outer terminal  | Housing       | Retainer |
|----------------|-----------|-----------------|---------------|----------|
| GT16-2428PCF   | GT16-PC   | GT16-/1.6-2.9PC | GT16-1P-HU    | —        |
| GT16-30PCF     |           | GT16-/0.7-1.5PC | GT16CB-1PP-HU | —        |

| Printed Circuit Board Type |
|----------------------------|
| GT16-1P-H                  |
| GT16C-1P-DS                |

## ◆ Tools

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

### Automatic Crimping Machine



Part Number CM-105

### 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 |               |

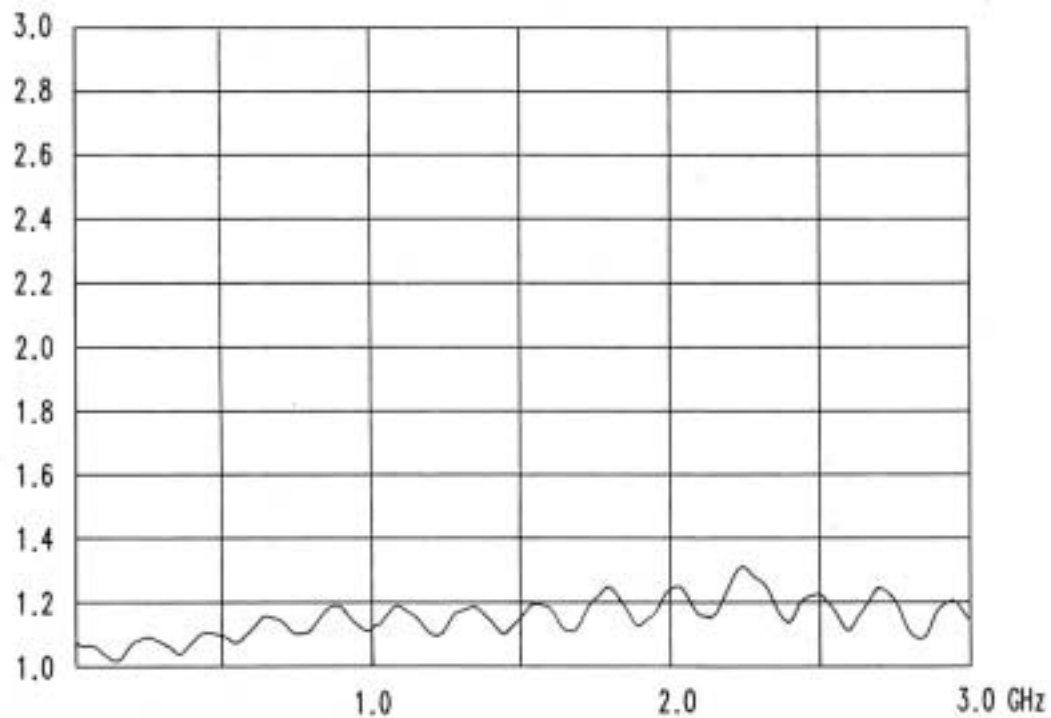


Hand Press

\* 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.

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

High Frequency Characteristics (V.S.W.R.)



Typical data using fully assembled and connected GT16-1P-HU and the GT5-1S-HU.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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