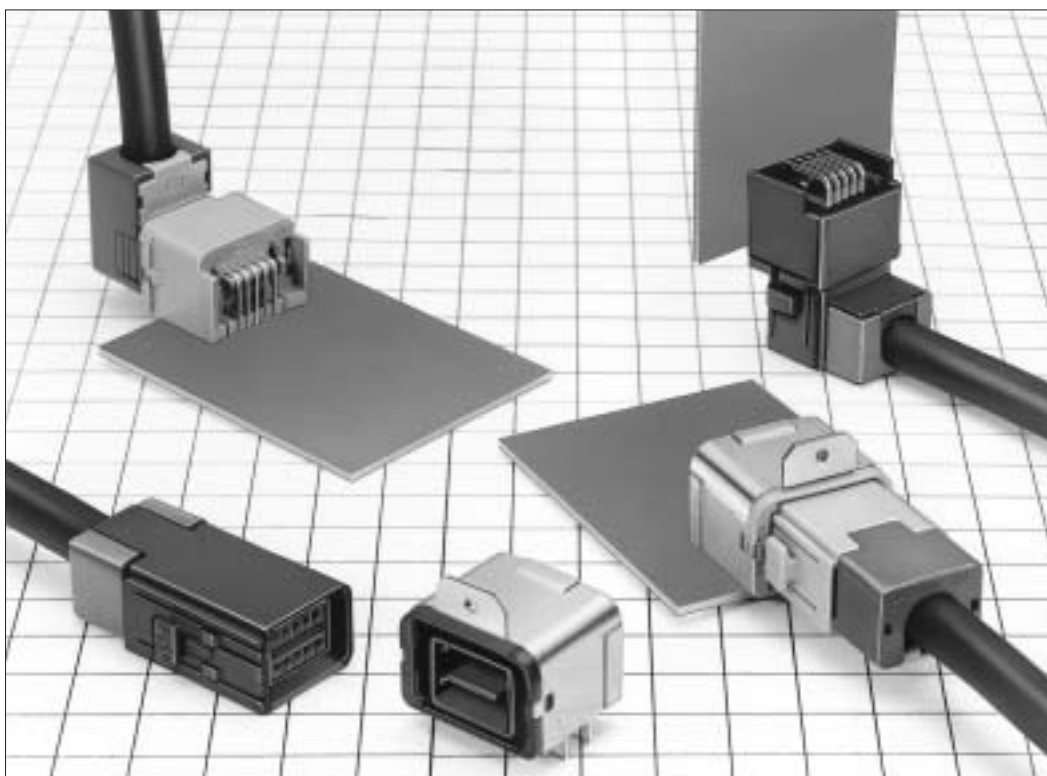


Antenna, Sensor, and Communications Trunk Line Connections

GT17 Series

— Ideal as Automotive USB Connectors —
<2 mm pitch>



Features

- All surface shielded construction.
- Ideal for use as Automotive USB connectors.

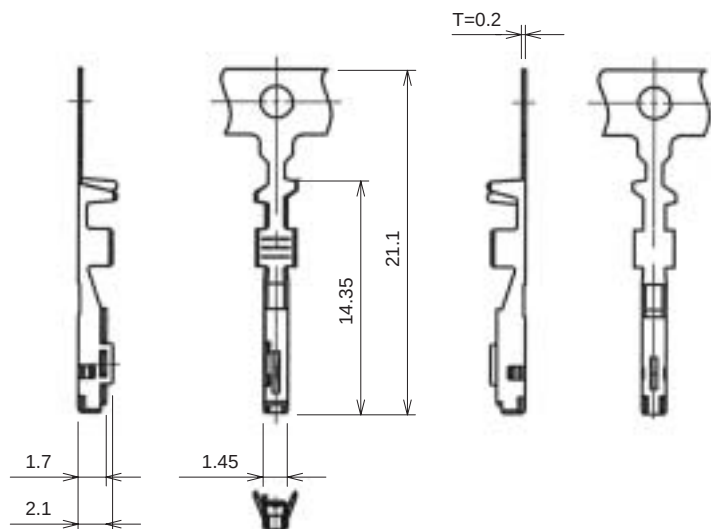
Applications

In-car data communications, etc.

GT17 Series

F Connectors

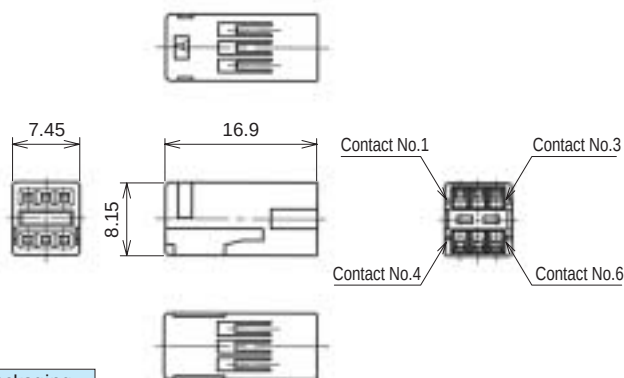
Center Terminals (Used with 6, 8, and 10 conductor cable)



Part Number	CL No.	Material	Finish	Conductor Size (AWG)	Outer Diameter	Packaging
GT17-2022SCF	767-0009-0	Copper alloy	Tin plating	#20 to 22	1.1 to 1.3 mm	10,000 pcs. per reel
GT17-2428SCF	767-0010-0	Copper alloy	Tin plating	#24 to 28	0.7 to 1.0 mm	10,000 pcs. per reel
GT17-30SCF	767-0064-9	Copper alloy	Tin plating	#30	1.1 to 1.3 mm	10,000 pcs. per reel

F Connectors (6-Conductor Type)

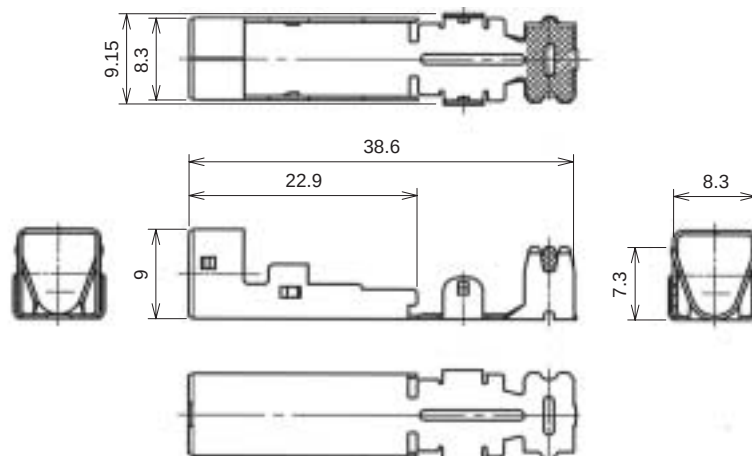
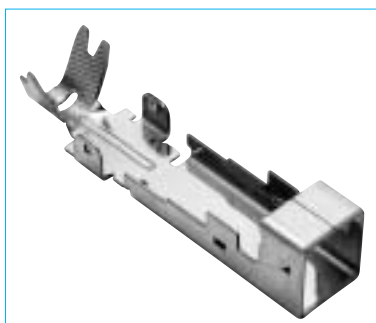
Insulator



Part Number	CL No.	Material	Color	Packaging
GT17V-6DS-2C	767-0026-0	PBT	Dark gray	1

Note: Applicable Cable will have an Insulator diameter of 0.7 to 1.3 mm.

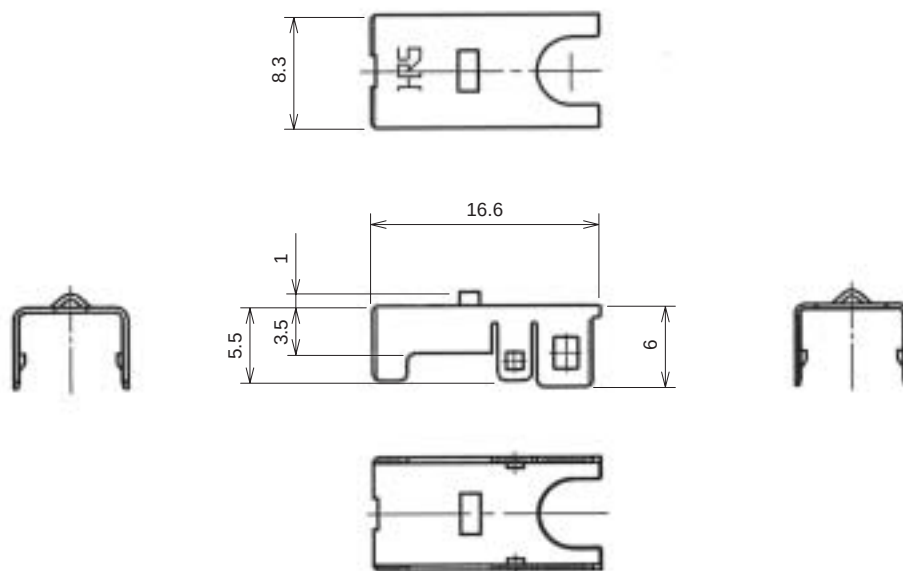
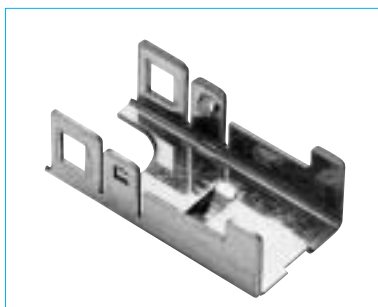
Outer terminal



Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17V-6DS-5CF	767-0027-2	Copper alloy	Tin plating	4.8 to 5.2 mm	1

Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

● Shield Cover

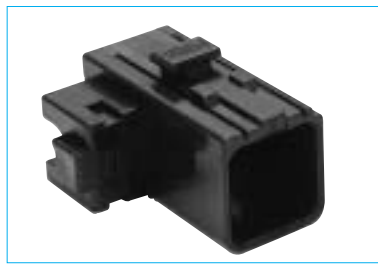


Part Number	CL No.	Material	Finish	Packaging
GT17V-6DS-SC	767-0028-5	Copper alloy	Tin plating	1

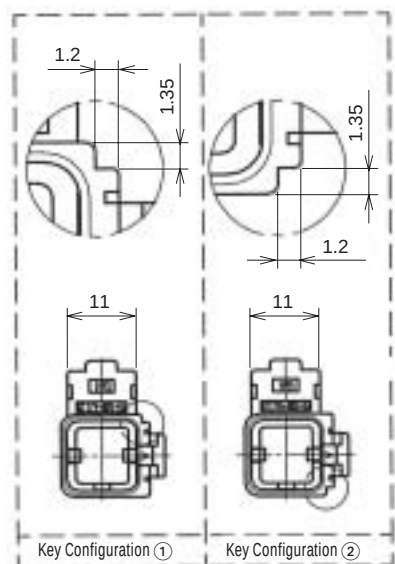
● Housing



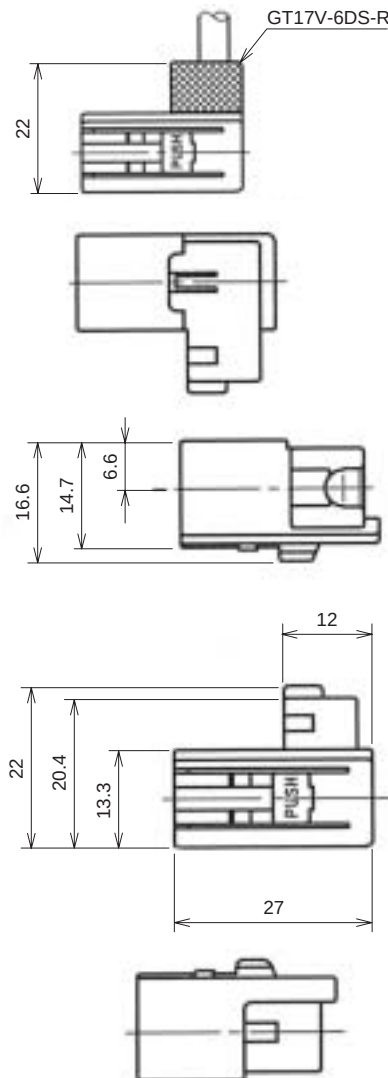
GT17V-6DS-HU



GT17VA-6DS-HU



◆ Shown with inserted retainer



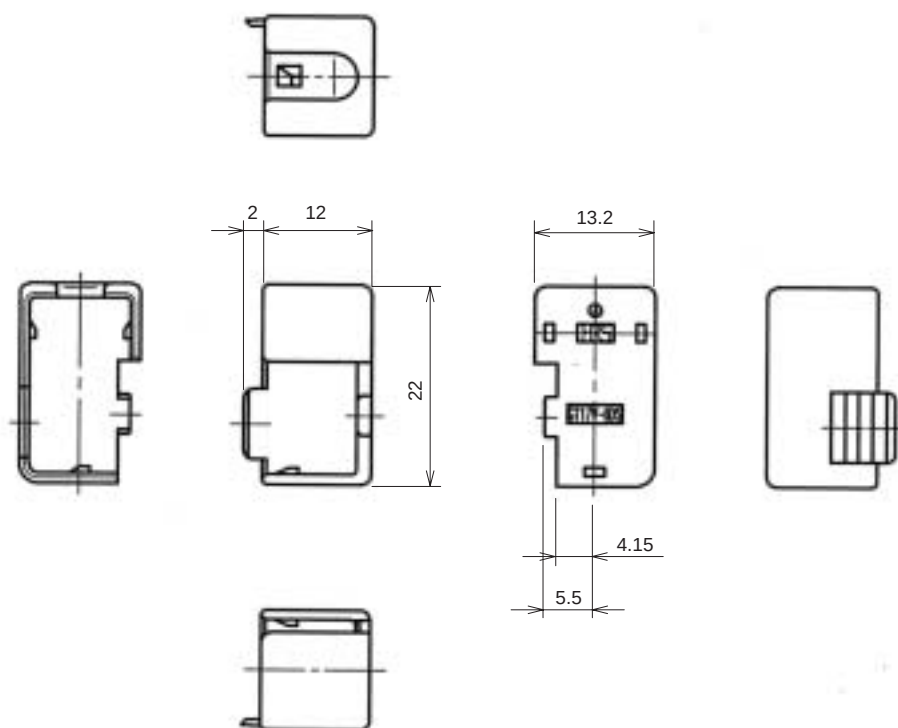
Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17V-6DS-HU	767-0029-8	PBT	Light gray	①	1
GT17VA-6DS-HU	767-0030-7	PBT	Black	②	1

Note 1: Used with the separate retainer (GT17V-6DS-R).

Note 2: Applicable Cable will have an outside sheath diameter of 4.8 to 5.2 mm.

GT17 Series

● Retainer (Used with GT17V-6DS-HU and GT17VA-6DS-HU)



Part Number	CL No.	Material	Color	Packaging
GT17V-6DS-R	767-0031-0	PBT	Dark gray	1

Note: Applicable Cable will have an Insulator diameter of 4.8 to 5.2 mm.

◆ F Connector (6-Conductor Type) Composition Table

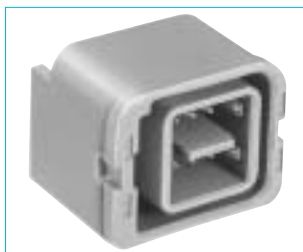
Inner Terminal	Insulator	Outer Terminal	Shield Cover	Housing	Retainer
GT17-2022SCF	GT17V-6DS-2C	GT17V-6DS-5CF	GT17V-6DS-SC	GT17V-6DS-HU	GT17V-6DS-R
GT17-2428SCF				GT17VA-6DS-HU	
GT17-30SCF					

◆ 6-Conductor Type Mating Table

F Connector	M Connector	Color
GT17V-6DS-HU	GT17V-6DP-DS	Light gray
	GT17VB-6DP-DS	
GT17VA-6DS-HU	GT17VA-6DP-DS	Black
	GT17VC-6DP-DS	

M Connectors (6-Conductor Type)

● Printed Circuit Board Type

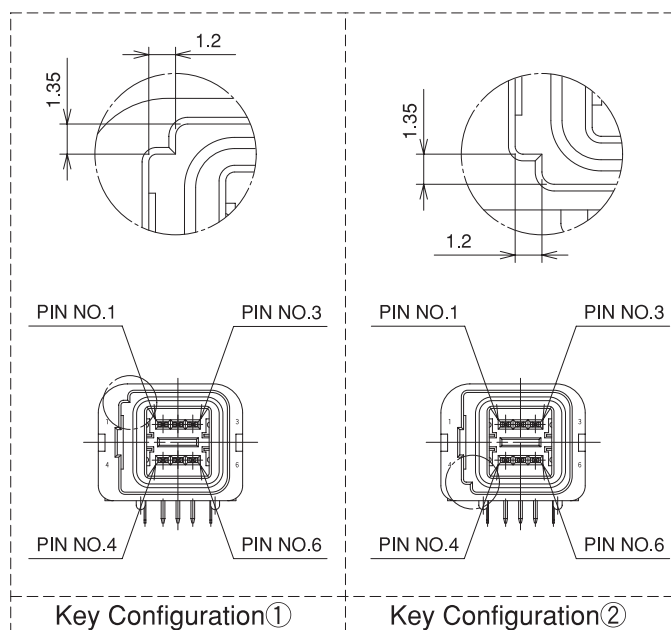
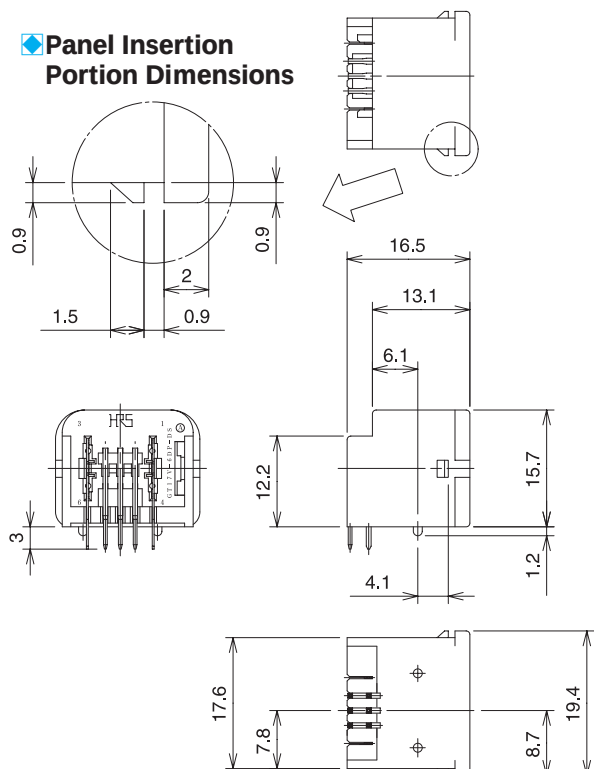


GT17V-6DP-DS

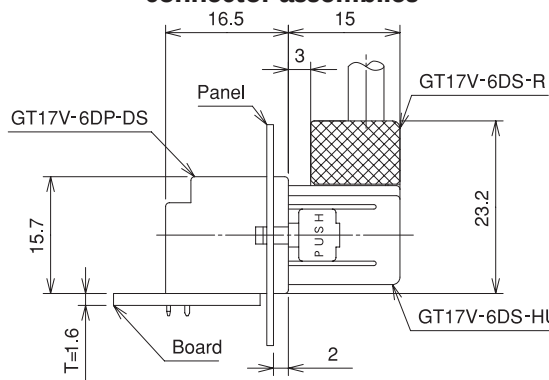


GT17VA-6DP-DS

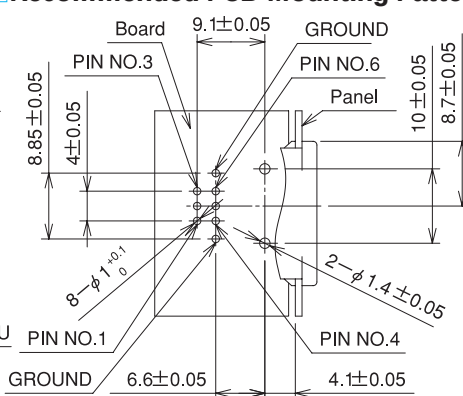
◆ Panel Insertion Portion Dimensions



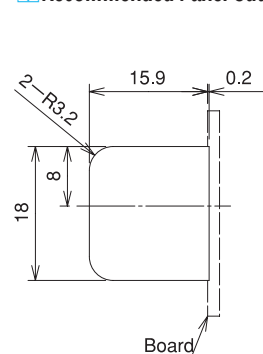
◆ Mounted and fully mated connector assemblies



◆ Recommended PCB Mounting Pattern



◆ Recommended Panel Cut-out



Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-6DP-DS	767-0024-4	Brass (Center terminal)	Light gray	①	Upward with respect to the mounting surface	1
GT17VA-6DP-DS	767-0025-7	Copper alloy (Outer terminals)	Black	②		1
GT17V-6DP-DS(70)	767-0024-4-70	PBT (Housing)	Light gray	①		1
GT17VA-6DP-DS(70)	767-0025-7-70		Black	②		1

(70):Pb free products.

GT17 Series

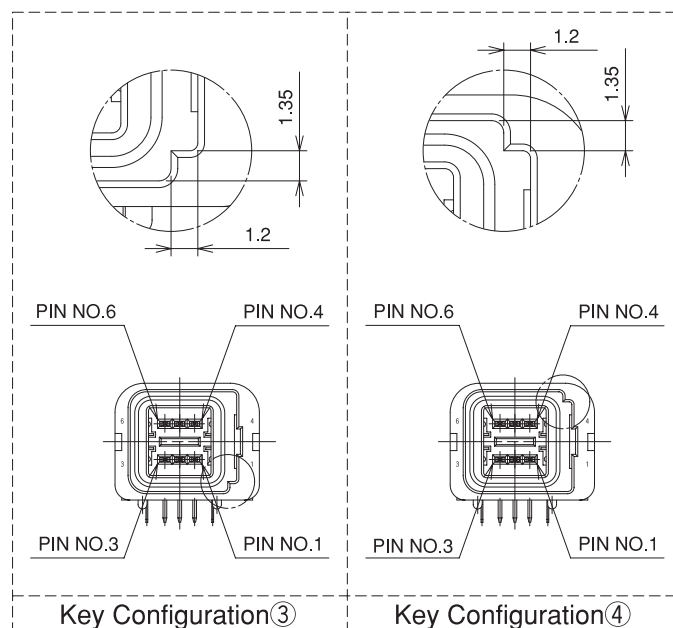
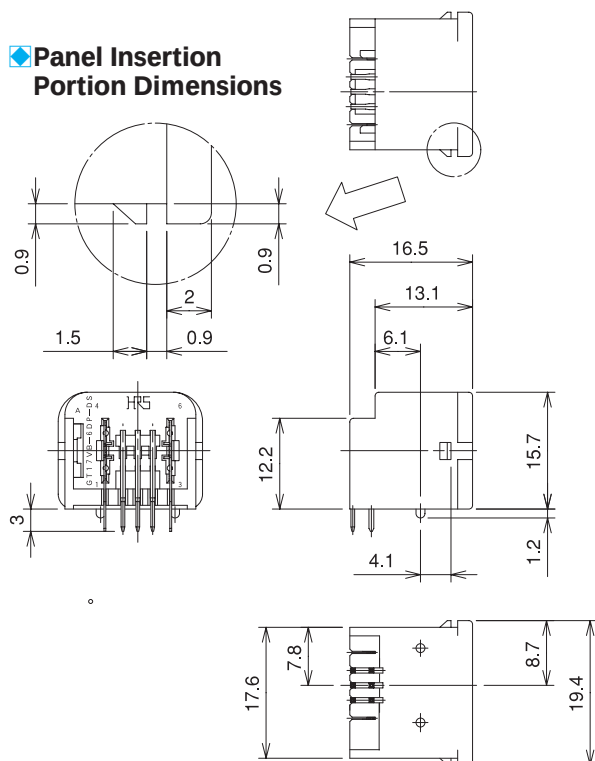


GT17VB-6DP-DS

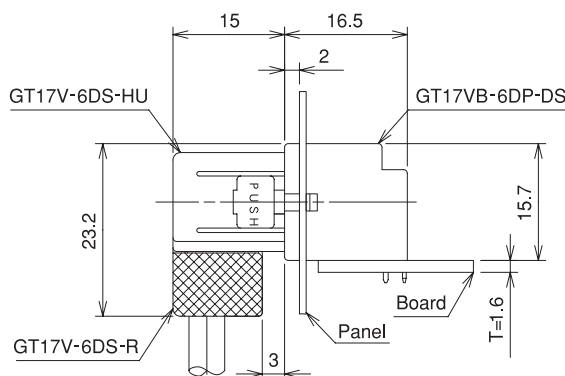


GT17VC-6DP-DS

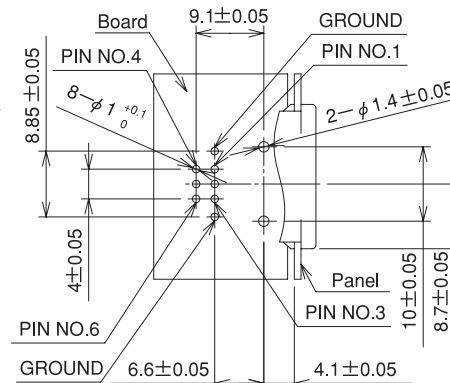
Panel Insertion Portion Dimensions



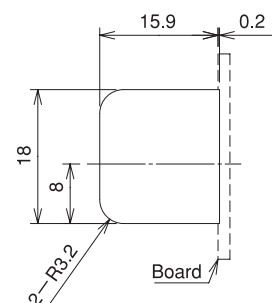
Mounted and fully mated connector assemblies



Recommended PCB Mounting Pattern



Recommended Panel Cut-out

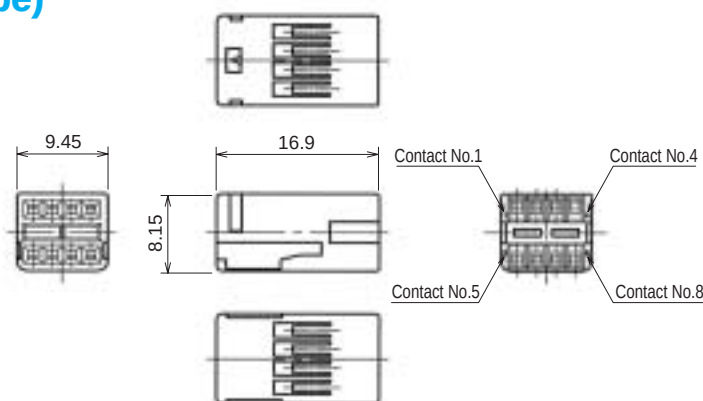


Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17VB-6DP-DS	767-0032-2	Brass (Center terminal)	Light gray	③	Downward with respect to the mounting surface	1
GT17VC-6DP-DS	767-0033-5	Copper alloy (Outer terminals)	Black	④		1
GT17VB-6DP-DS(70)	767-0032-2-70	PBT (Housing)	Light gray	③		1
GT17VC-6DP-DS(70)	767-0033-5-70		Black	④		1

(70):Pb free products.

F Connectors (8-Conductor Type)

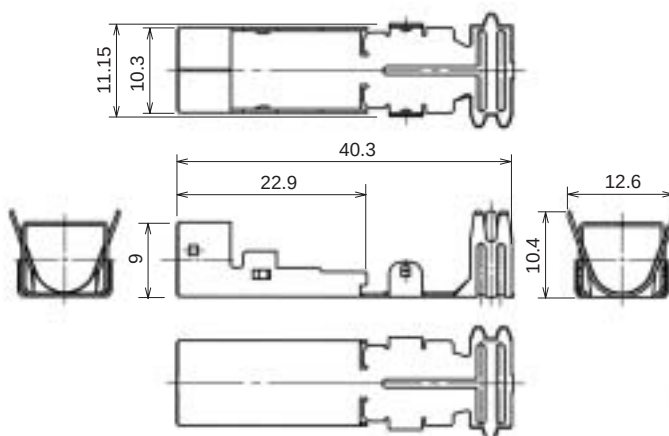
● Insulator



Part Number	CL No.	Material	Color	Packaging
GT17-8DS-2C	767-0005-0	PBT	Dark gray	1

Note: Applicable Cable will have an Insulator diameter of 0.7 to 1.3 mm.

● Outer terminals

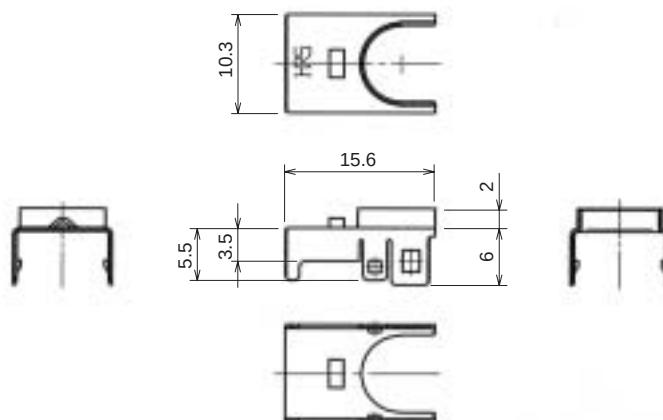


Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17-8DS-7CF	767-0007-5	Phosphor bronze	Tin plating	6.8 to 7.2 mm	1
GT17-8DS-7CF(70)	767-0007-5(70)	Phosphor bronze	Tin plating	6.8 to 7.2 mm	1

(70):Pb free products.

Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

● Shield Cover



Part Number	CL No.	Material	Finish	Packaging
GT17-8DS-SC	767-0006-2	Brass	Tin plating	1
GT17-8DS-SC(70)	767-0006-2(70)	Brass	Tin plating	1

(70):Pb free products.

GT17 Series

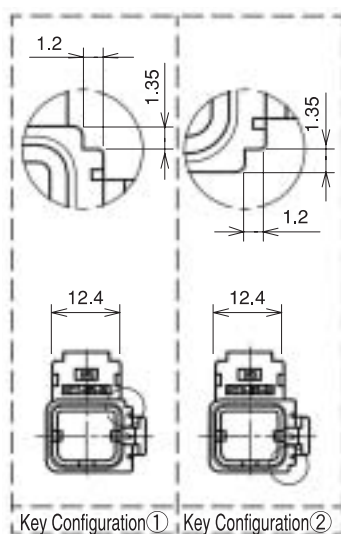
● Housing



GT17-8DS-HU

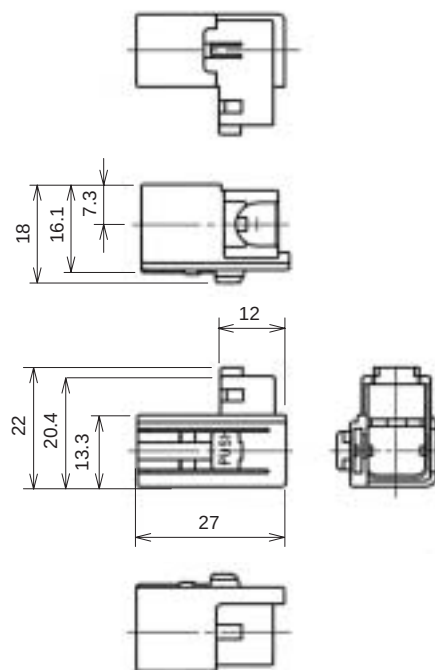
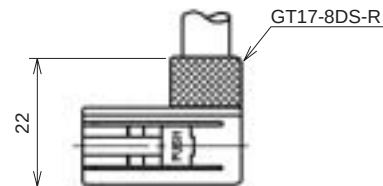


GT17A-8DS-HU



Key Configuration ① Key Configuration ②

◆ Shown with inserted retainer

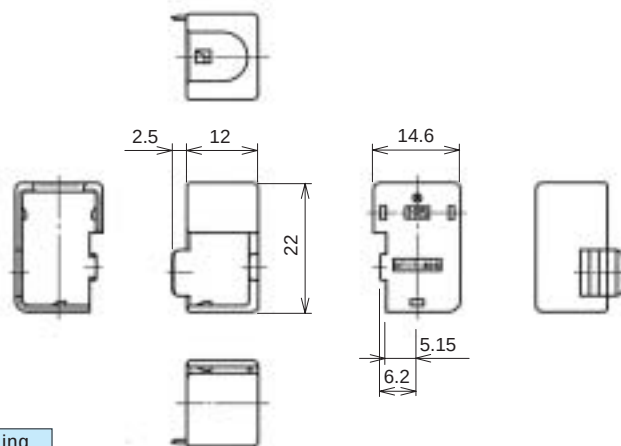


Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17-8DS-HU	767-0003-4	PBT	Light gray	①	1
GT17A-8DS-HU	767-0004-7	PBT	Black	②	1

Note 1: Used with the separate retainer (GT17-8DS-R).

Note 2: Applicable Cable will have an outside sheath diameter of 6.8 to 7.2 mm.

● Retainer



Part Number	CL No.	Material	Color	Packaging
GT17-8DS-R	767-0008-8	PBT	Dark gray	1

Note: Applicable Cables will have an outside sheath diameter of 6.8 to 7.2 mm.

◆ F Connector (8-Conductor Type) Composition Table

Inner Terminal	Insulator	Outer Terminal	Shield Cover	Housing	Retainer
GT17-2022SCF	GT17-8DS-2C	GT17-8DS-7CF	GT17-8DS-SC	GT17-8DS-HU	GT17-8DS-R
GT17-2428SCF					
GT17-30SCF				GT17A-8DS-HU	

◆ 8-Conductor Type Mating Table

F Connector	M Connector	Color
GT17-8DS-HU	GT17-8DP-DS	Light gray
	GT17B-8DP-DS	
GT17A-8DS-HU	GT17A-8DP-DS	Black
	GT17C-8DP-DS	

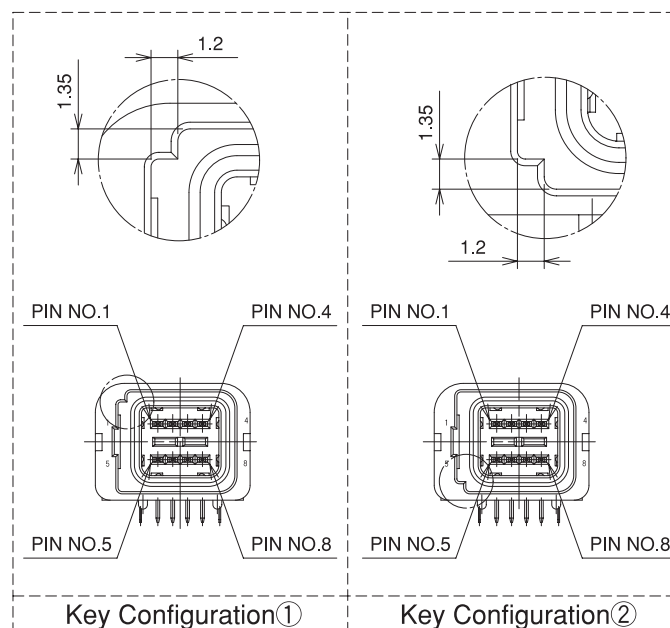


GT17A-8DP-DS

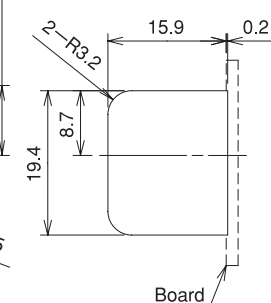
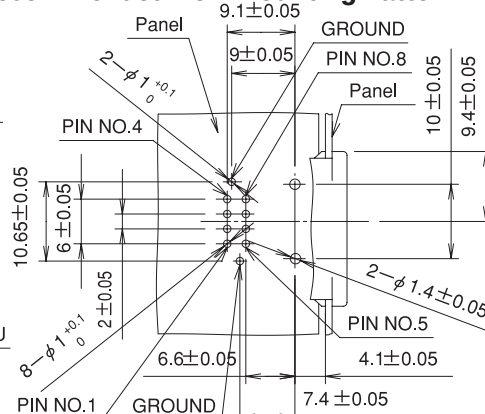
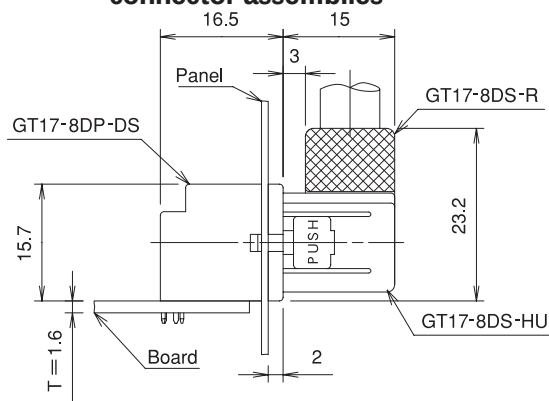
Panel Insertion Portion Dimensions

Technical drawings of the Panel Insertion Portion showing dimensions in inches:

- Top View:** Shows a circular panel with a central rectangular cutout. Dimensions include a total width of 1.5, a central cutout width of 0.9, and a distance of 0.9 from the cutout to the panel edge. A small dimension of 2 is also indicated.
- Side View:** Shows the panel's profile with a total height of 12. The panel thickness is 0.9. The distance from the bottom of the panel to the top of the internal structure is 4.1. The distance from the top of the panel to the top of the internal structure is 15.7. The distance from the bottom of the panel to the bottom of the internal structure is 1.2. The distance from the top of the panel to the bottom of the internal structure is 16.5. The distance from the bottom of the panel to the top of the internal structure is 13.1. The distance from the top of the panel to the bottom of the internal structure is 6.1.
- Front View:** Shows the panel's front face with a total width of 19. The panel thickness is 0.9. The distance from the bottom of the panel to the top of the internal structure is 8.5. The distance from the top of the panel to the top of the internal structure is 20.8. The distance from the bottom of the panel to the bottom of the internal structure is 9.4.



 Recommended Panel Cut-out



Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17-8DP-DS	767-0001-9	Brass (Center terminal) Phosphor bronze (Outer terminals) PBT (Housing)	Light gray	①	Upward with respect to the mounting surface	1
GT17A-8DP-DS	767-0002-1		Black	②		1
GT17-8DP-DS(70)	767-0001-9-70		Light gray	①		1
GT17A-8DP-DS(70)	767-0002-1-70		Black	②		1

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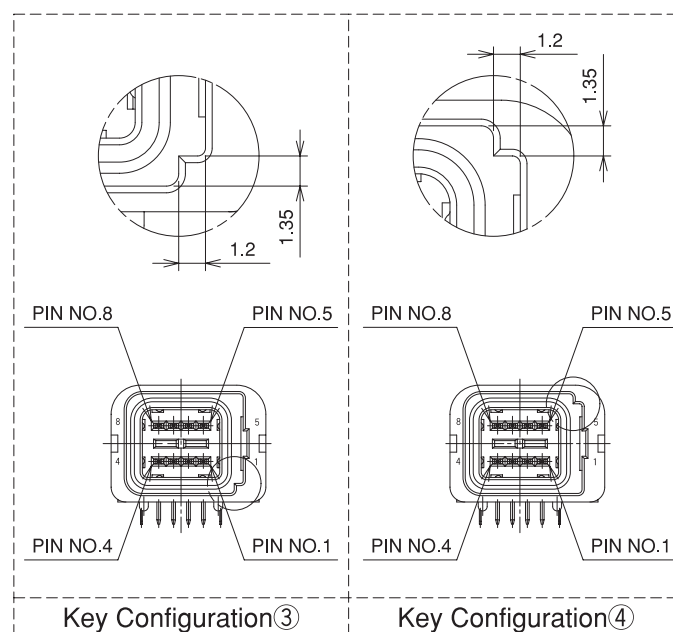
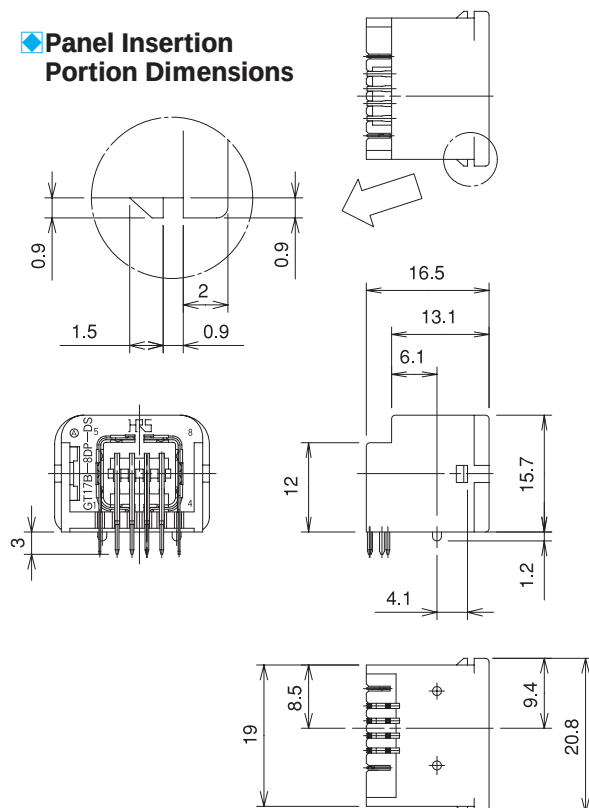


GT17B-8DP-DS

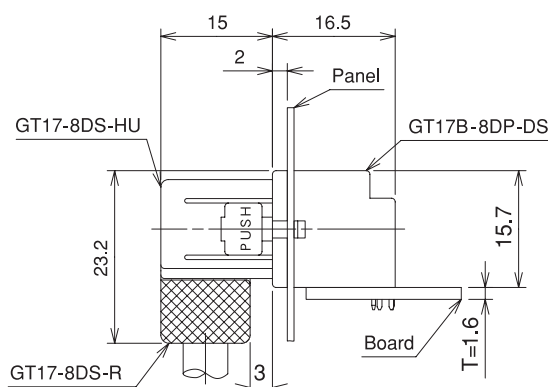


GT17C-8DP-DS

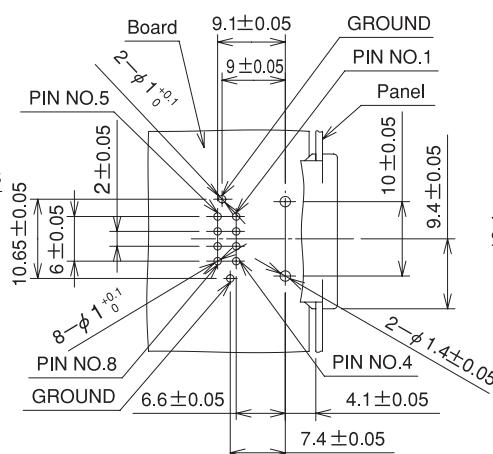
◆ Panel Insertion Portion Dimensions



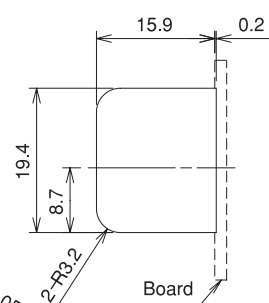
◆ Mounted and fully mated connector assemblies



◆ Recommended PCB Mounting Pattern



◆ Recommended Panel Cut-out



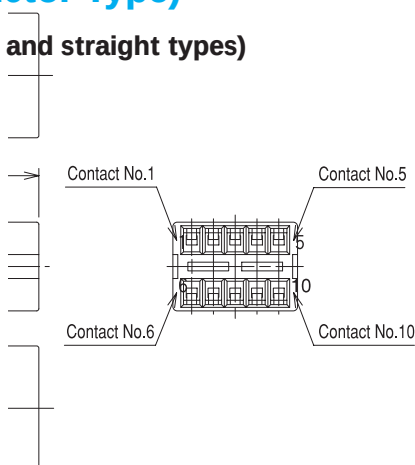
Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17B-8DP-DS	767-0020-3	Brass (Center terminal)	Light gray	③	Downward with respect to the mounting surface	1
GT17C-8DP-DS	767-0021-6	Phosphor bronze (Outer terminals)	Black	④		1
GT17B-8DP-DS(70)	767-0020-3-70	PBT (Housing)	Light gray	③		1
GT17C-8DP-DS(70)	767-0021-6-70		Black	④		1

(70):Pb free products.

GT17 Series

F Connectors (10-Conductor Type)

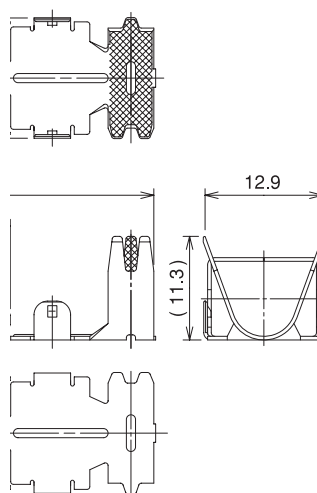
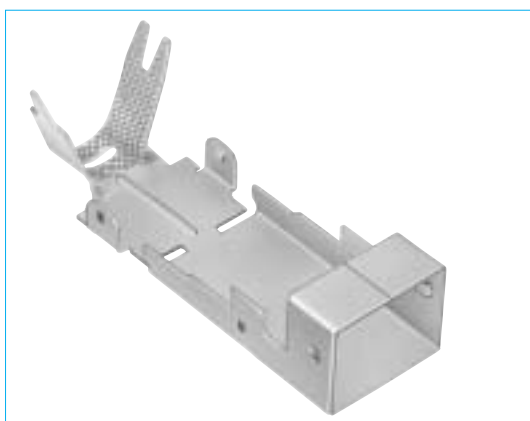
● Insulator (used for both right-angle and straight types)



Part Number	CL No.	Material	Color	Packaging
GT17V-10DS-2C	767-0036-3	PBT	Dark gray	1

Note: Applicable Cable will have an Insulator diameter of 0.7 to 1.3 mm.

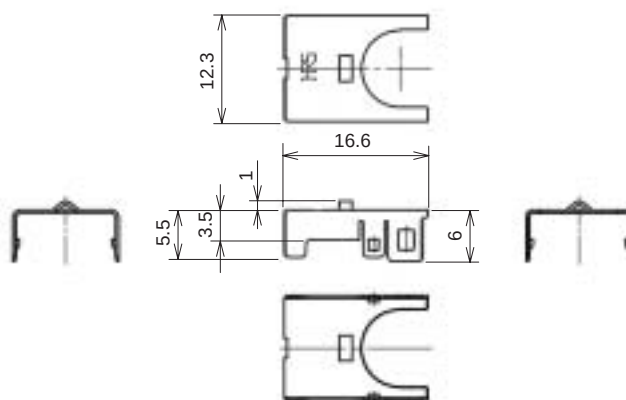
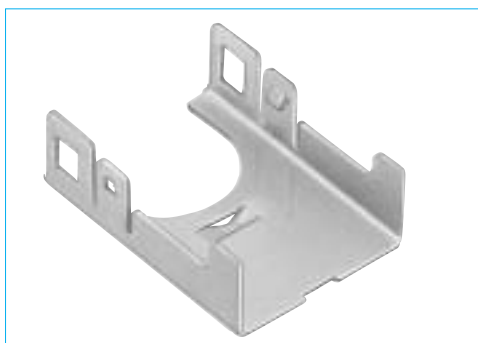
● Outer terminals (Right Angle Type)



Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17V-10DS-8CF	767-0037-6	Copper alloy	Tin plating	7.5 to 8.0 mm	1

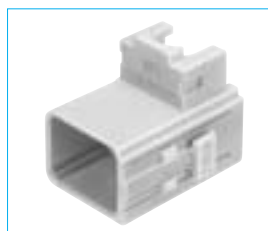
Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

● Shield Cover (Right Angle Type)



Part Number	CL No.	Material	Finish	Packaging
GT17V-10DS-SC	767-0038-9	Copper alloy	Tin plating	1

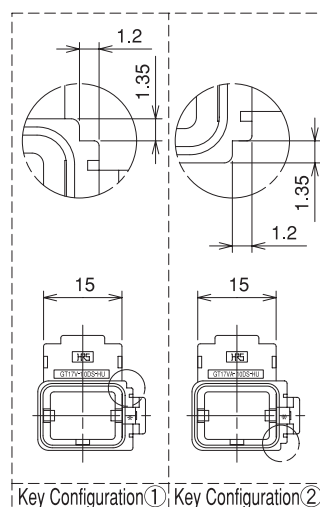
● Housing (Right-angle Type)



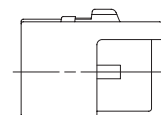
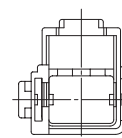
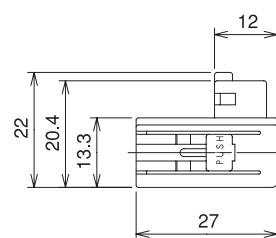
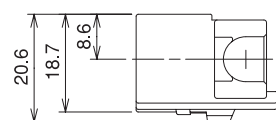
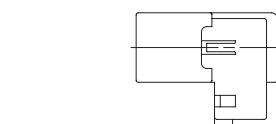
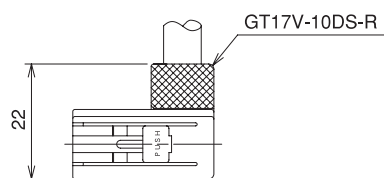
GT17V-10DS-HU



GT17VA-10DS-HU



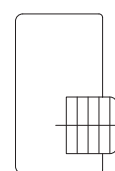
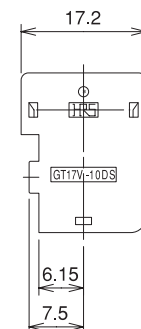
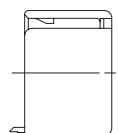
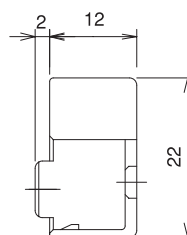
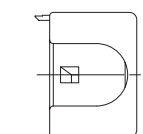
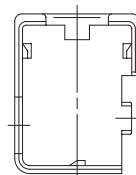
◆ Shown with inserted retainer



Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17V-10DS-HU	767-0039-1	PBT	Light gray	①	1
GT17VA-10DS-HU	767-0040-0	PBT	Black	②	1

Note: Used with the separate retainer (GT17-10DS-R).

● Retainer (Right-angle Type)

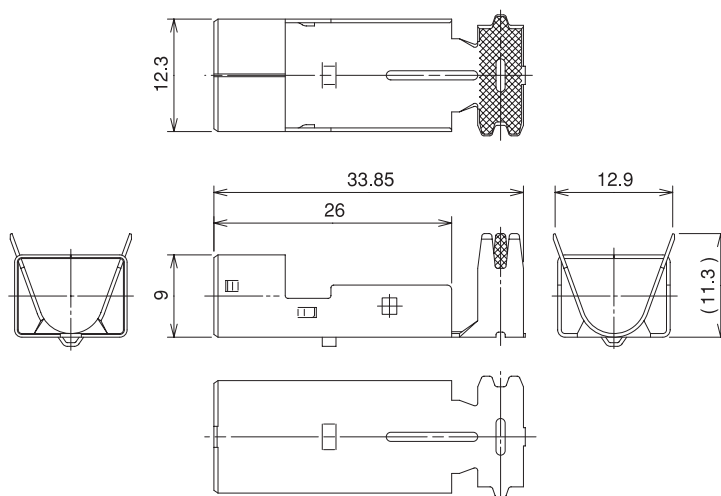
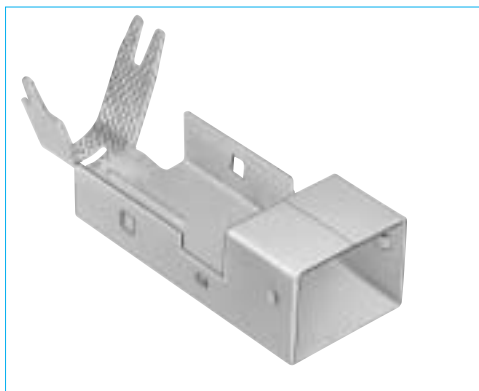


Part Number	CL No.	Material	Color	Packaging
GT17V-10DS-R	767-0041-3	PBT	Dark gray	1

Note: Applicable Cable will have an outside sheath diameter of 7.5 to 8.0 mm.

GT17 Series

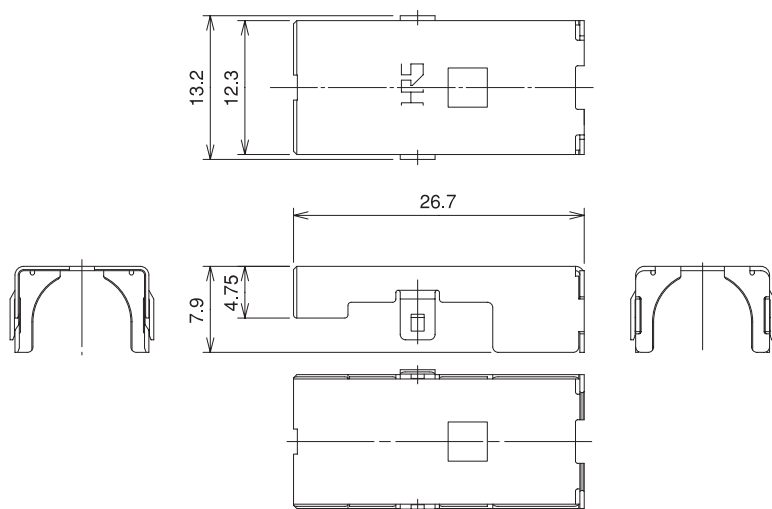
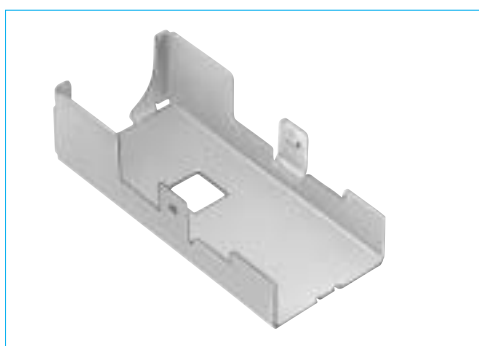
● Outer terminals (Straight Type)



Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17VS-10DS-8CF	767-0059-9	Copper alloy	Tin plating	7.5 to 8.0 mm	1

Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

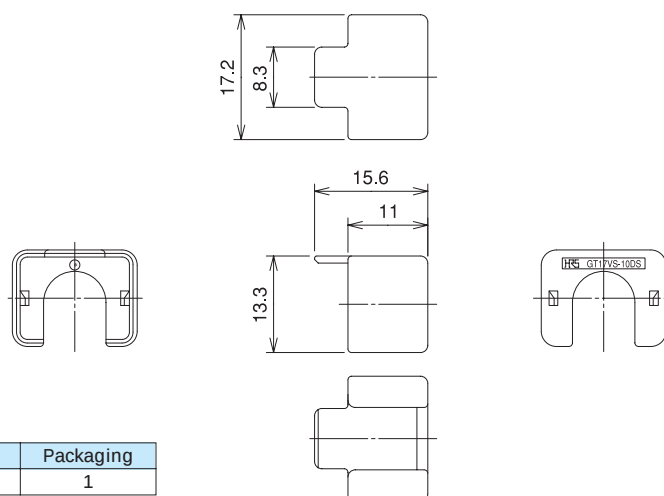
● Shield Cover (Straight Type)



Part Number	CL No.	Material	Finish	Packaging
GT17VS-10DS-SC	767-0060-8	Copper alloy	Tin plating	1

Note: Applicable Cables will have an outside sheath diameter of 7.5 to 8.0 mm.

● Retainer (Straight Type)

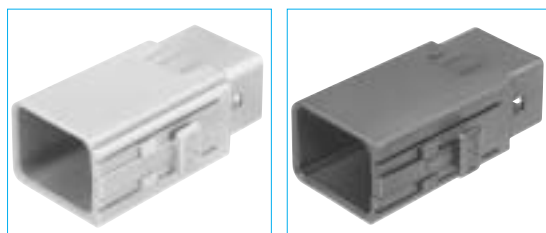


Part Number	CL No.	Material	Color	Packaging
GT17VS-10DS-R	767-0063-6	PBT	Dark gray	1

Note: Applicable Cables will have an outside sheath diameter of 7.5 to 8.0 mm.

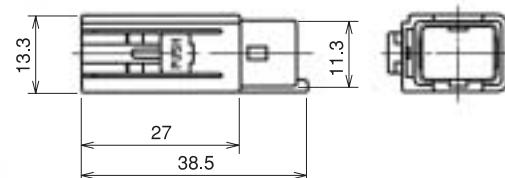
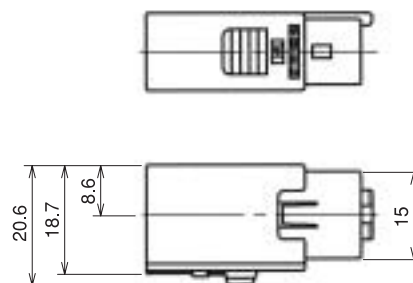
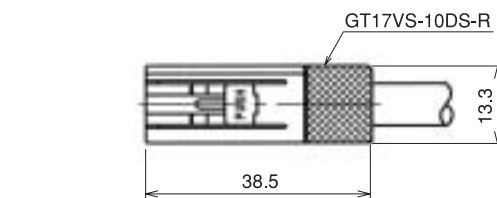
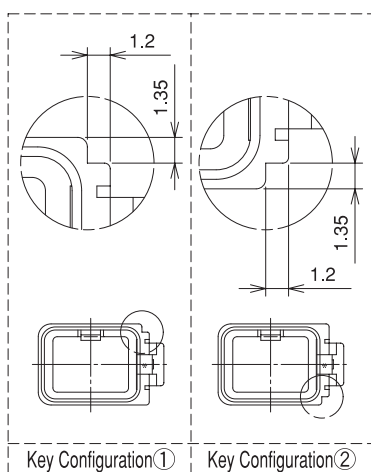
● Housing (Straight Type)

◆ Shown with inserted retainer



GT17VS-10DS-HU

GT17VSA-10DS-HU



Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17VS-10DS-HU	767-0061-0	PBT	Light gray	①	1
GT17VSA-10DS-HU	767-0062-3	PBT	Black	②	1

Note 1: Used with the separate retainer (GT17-10DS-R).

Note 2: Applicable Cable will have an outside sheath diameter of 7.5 to 8.0 mm.

◆ F Connector (10-Conductor Type) Composition Table

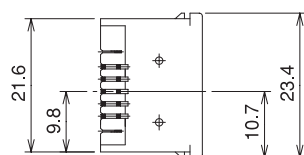
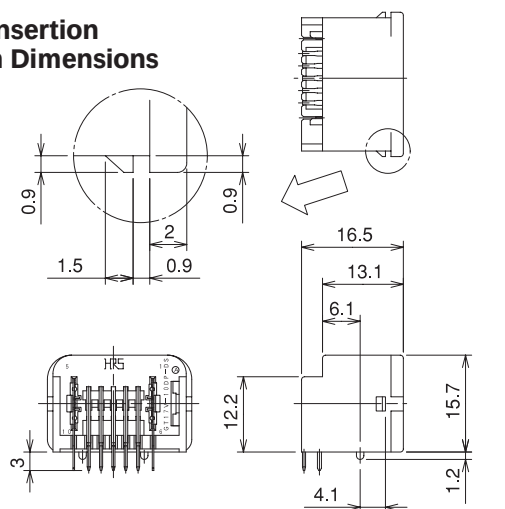
Inner Terminal	Insulator	Outer Terminal	Shield Cover	Housing	Retainer
GT17-2022SCF	GT17V-10DS-2C	GT17V-10DS-8CF	GT17V-10DS-SC	GT17V-10DS-HU	GT17V-10DS-R
GT17-2428SCF				GT17VA-10DS-HU	
GT17-30SCF		GT17VS-10DS-8CF	GT17VS-10DS-SC	GT17VS-10DS-HU	GT17VS-10DS-R
				GT17VSA-10DS-HU	

◆ 10-Conductor Type Mating Table

F Connector	M Connector	Color
GT17V-10DS-HU	GT17V-10DP-DS	Light gray
	GT17V-10DP-DSA	
GT17VS-10DS-HU	GT17V-10DP-DS-SB	Black
GT17VA-10DS-HU	GT17VA-10DP-DS	
	GT17VA-10DP-DSA	
GT17VSA-10DS-HU	GT17VA-10P-DS-SB	

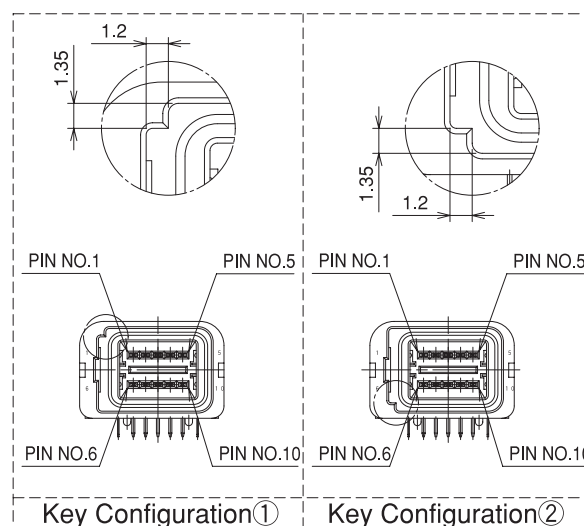


Panel Insertion Portion Dimensions



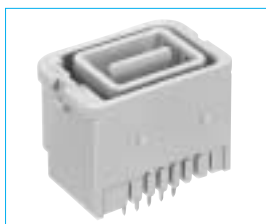
Technical drawing of the GT17VS-10DS-R assembly. The drawing shows a side view of the assembly with the following dimensions and components:

- Overall width: 26.5
- Distance from left edge to panel center: 16.5
- Panel width: 2
- Distance from panel center to right edge: 14.5
- Distance from left edge to board center: 15.7
- Board thickness: $T=1.6$
- Components labeled: GT17V-10DP-DS, Panel, GT17VS-10DS-R, Board, GT17VS-10DS-HU, and PUSH.

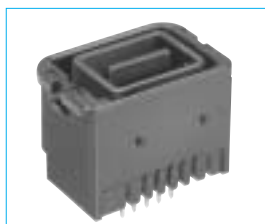
[illegible]

(70):Pb free products.

● Printed Circuit Board Type (Straight Type)

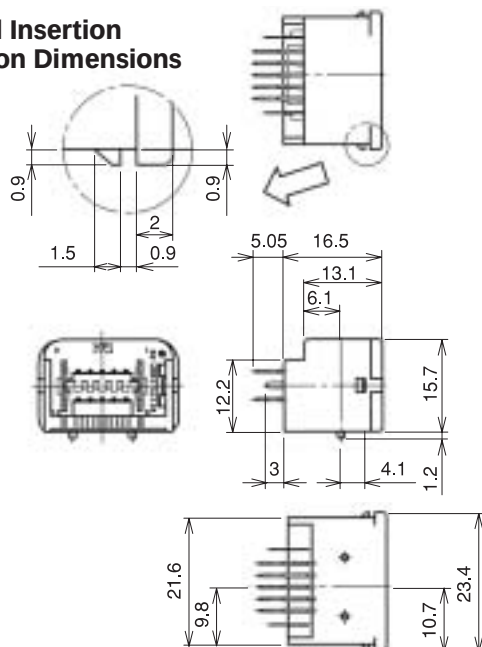


GT17V-10DP-DSA

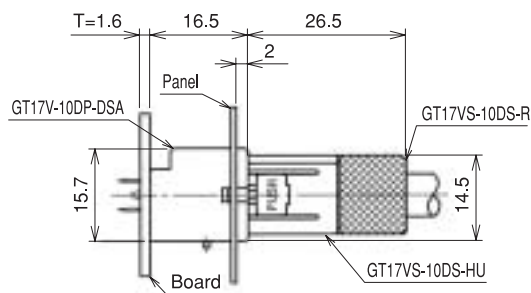


GT17VA-10DP-DSA

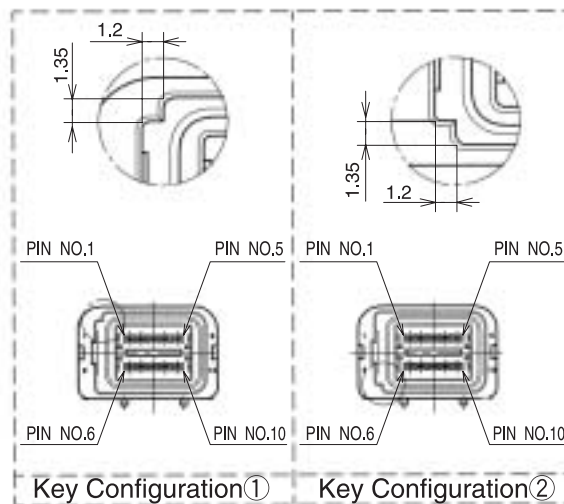
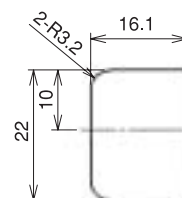
◆ Panel Insertion Portion Dimensions



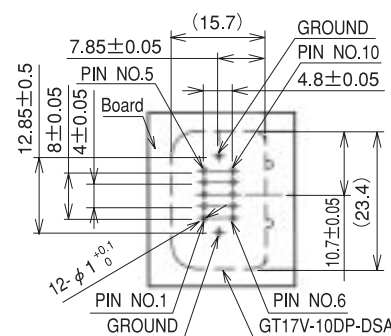
◆ Mounted and fully mated connector assemblies



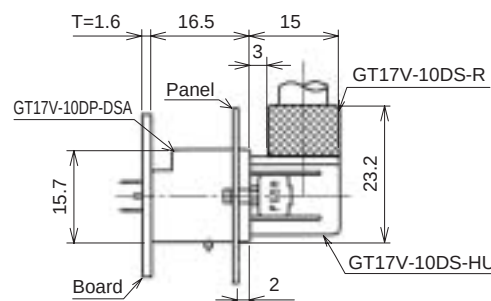
◆ Recommended Panel Cut-out



◆ Recommended PCB Mounting Pattern



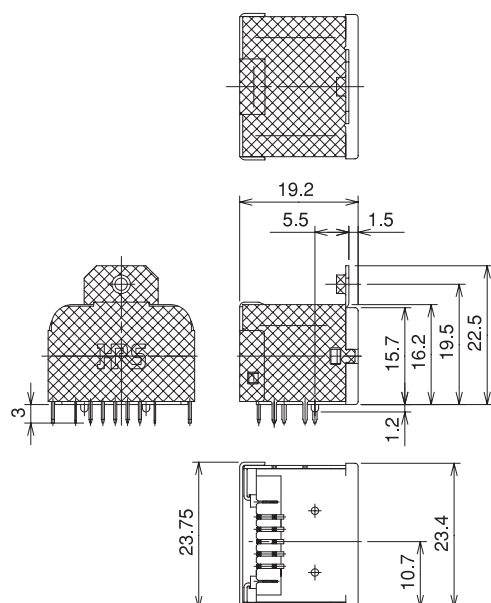
◆ Mounted and fully mated connector assemblies



Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-10DP-DSA	767-0067-7	Brass (Center terminal) Copper alloy (Outer terminals) PBT (Housing)	Light gray	①	Upward with respect to the mounting surface	1
GT17VA-10DP-DSA	767-0068-0		Black	②		1
GT17V-10DP-DSA(70)	767-0067-7-70		Light gray	①		1
GT17VA-10DP-DSA(70)	767-0068-0-70		Black	②		1

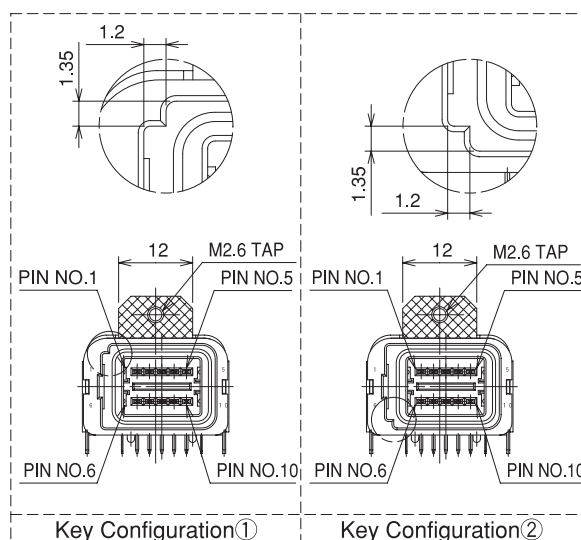
(70):Pb free products.

● Printed Circuit Board Type (Shield Reinforced Type)



Technical drawing of the front view of a panel assembly. The drawing shows a cross-section of a panel with a board attached. Dimensions include a total width of 26.5, a board width of 19.2, and a gap of 1.5. The board has a thickness $T = 1.6$. The panel has a height of 14.5. The board is labeled "Board" and the panel is labeled "Panel". The board is secured by a screw. The panel is secured by a screw. The board is labeled "GT17VS-10DS-R" and the panel is labeled "GT17VS-10DS-HU".

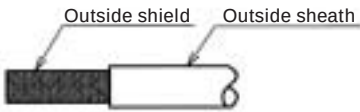
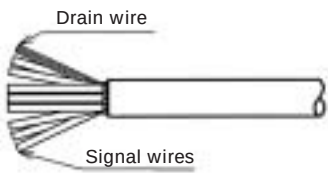
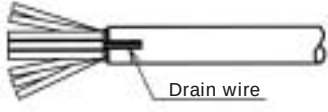
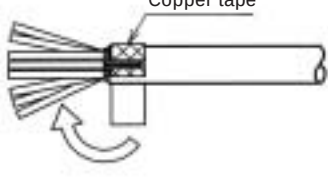
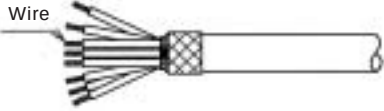
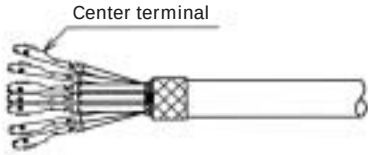
Figure 1 is a technical drawing showing the dimensions of the test rig. The diagram includes a cross-section of the rig with various components and dimensions. Key dimensions are: 19.2, 15, 3, 1.5, 23.2, and $T=1.6$. Components labeled include GT17V-10DS-R, GT17V-10DS-HU, Board, and Panel.



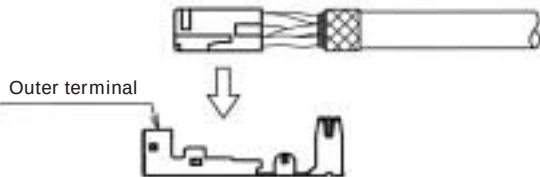
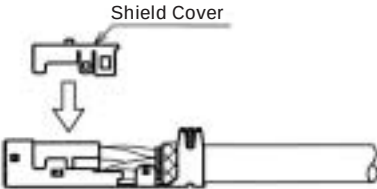
Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-10DP-DS-SB	767-0069-2	Brass (Center terminal)	Light gray	①	Upward with respect to the mounting surface	1
GT17VA-10DP-DS-SB	767-0070-1	Copper alloy (Outer terminals)	Black	②		1
GT17V-10DP-DS-SB(70)	767-0069-2-70	Brass (Shield)	Light gray	①		1
GT17VA-10DP-DS-SB(70)	767-0070-1-70		Black	②		1

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◆ Wiring Method

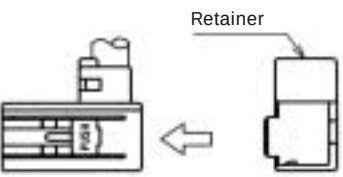
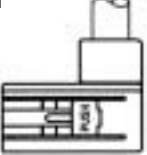
- ① **Strip the outside sheath.**

- ② **Cut the shield and intermediate material to expose the wire and braid.**

- ③ **Bend back the drain wire over the sheath.**

- ④ **Wrap with copper tape.**

- ⑤ **Strip the wire leads.**

- ⑥ **Crimp the center terminals.**

- ⑦ **Insert the center terminals into the insulator.**


GT17V-10DS-HU Harness Finish

- ⑧ **Insert the insulator into the Outer terminal.**

- ⑨ **Insert the Shield Cover.**

- ⑩ **Fold back the Outer terminal.**

- ⑪ **Crimp the Outer terminal.**

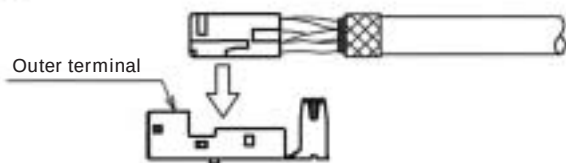
- ⑫ **Insert the Outer terminal into the housing.**

- ⑬ **Insert the retainer.**

- ⑭ **Completion**


GT17 Series

GT17VS-10DS-HU Harness Finish

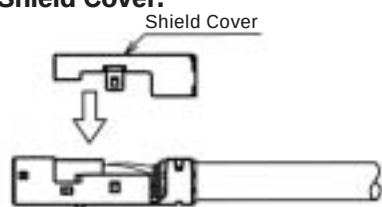
⑧ Insert the insulator into the Outer terminal.



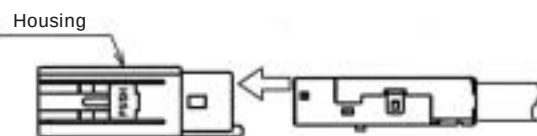
⑨ Crimp the Outer terminal.



⑩ Insert the Shield Cover.



⑪ Insert the Outer terminal into the housing.



⑫ Insert the retainer.



⑬ Completion



Termination Tools

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

Automatic Crimping Machine



Part Number CM-105

Hand Press



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	2000 to 4000 pcs. per day	

* 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.

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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