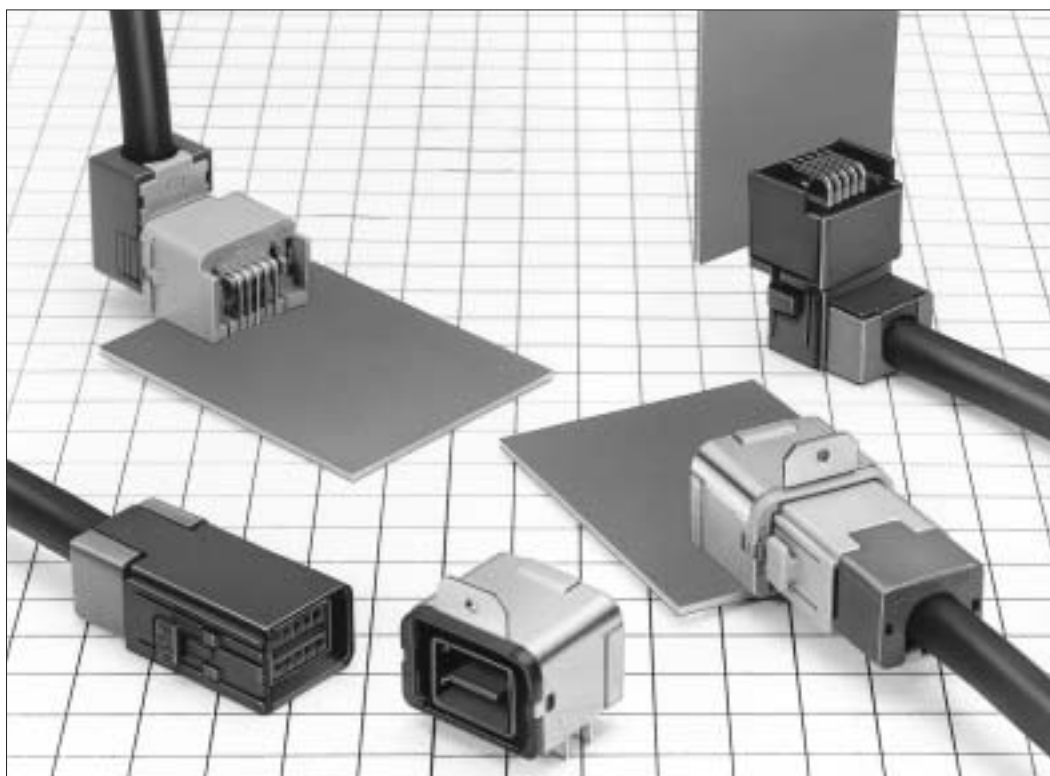


Antenna, Sensor, and Communications Trunk Line Connections

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.

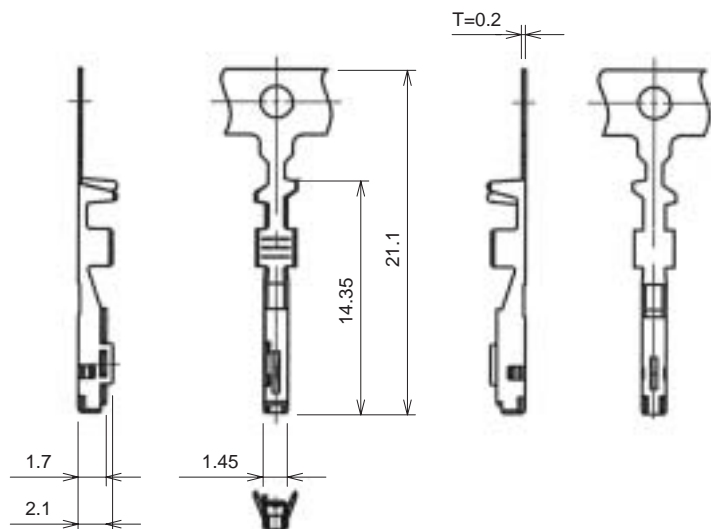
GT17 Series

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

GT 1
GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19N
GT 2
GT 3
GT 6W
GT 7
GT 10
GT 12
GT 18W
GT 15
GT 8
GT 9

F Connectors

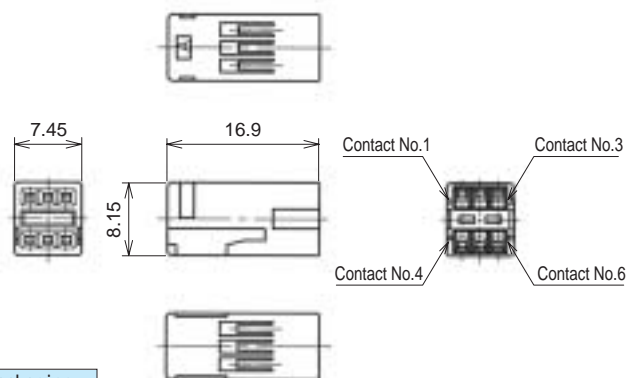
Center Terminals (Used with 6, 8, and 10 conductor cable)



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)

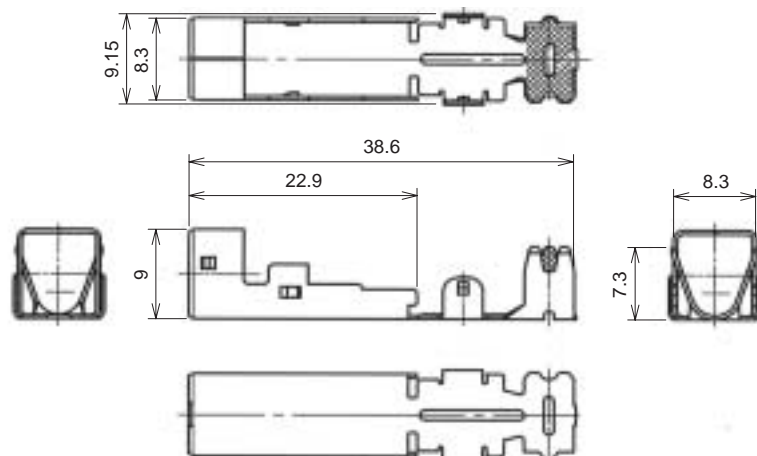
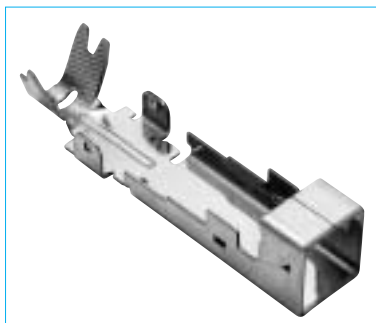
Insulator



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.

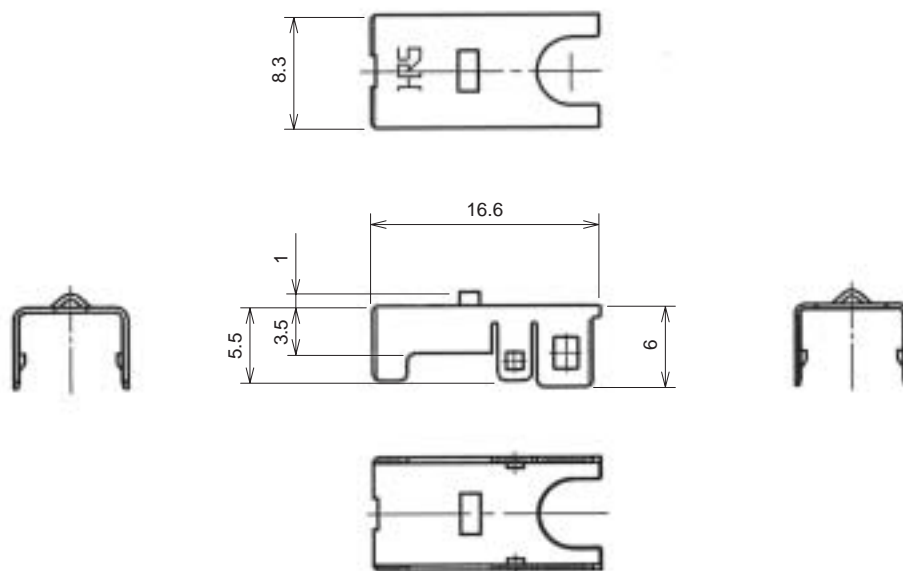
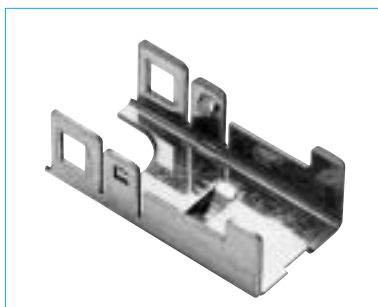
Outer terminal



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

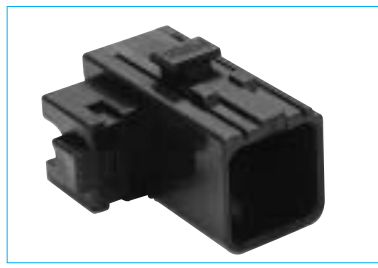


Part Number	CL No.	Material	Finish	Packaging
GT17V-6DS-SC	767-0028-5	Copper alloy	Tin plating	1

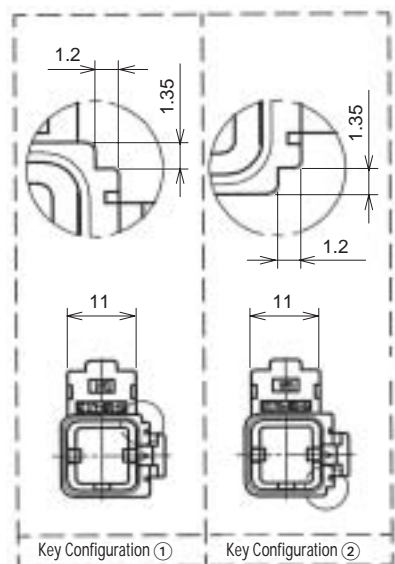
● Housing



GT17V-6DS-HU



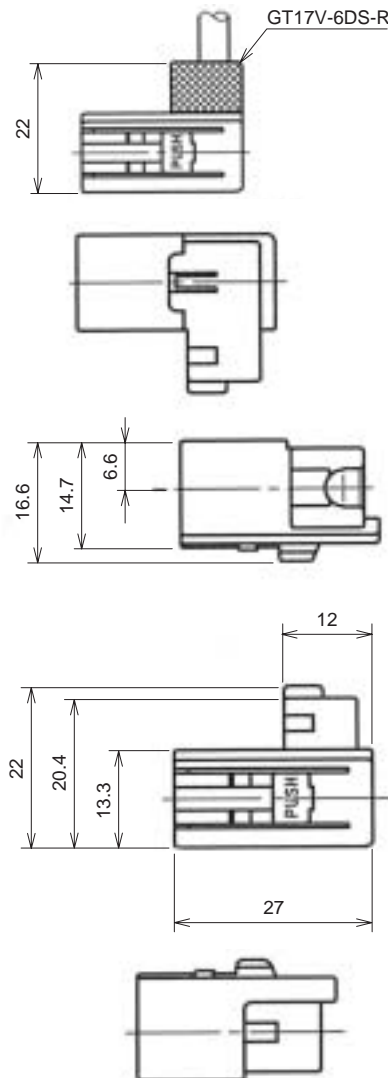
GT17VA-6DS-HU



Key Configuration ①

Key Configuration ②

◆ Shown with inserted retainer



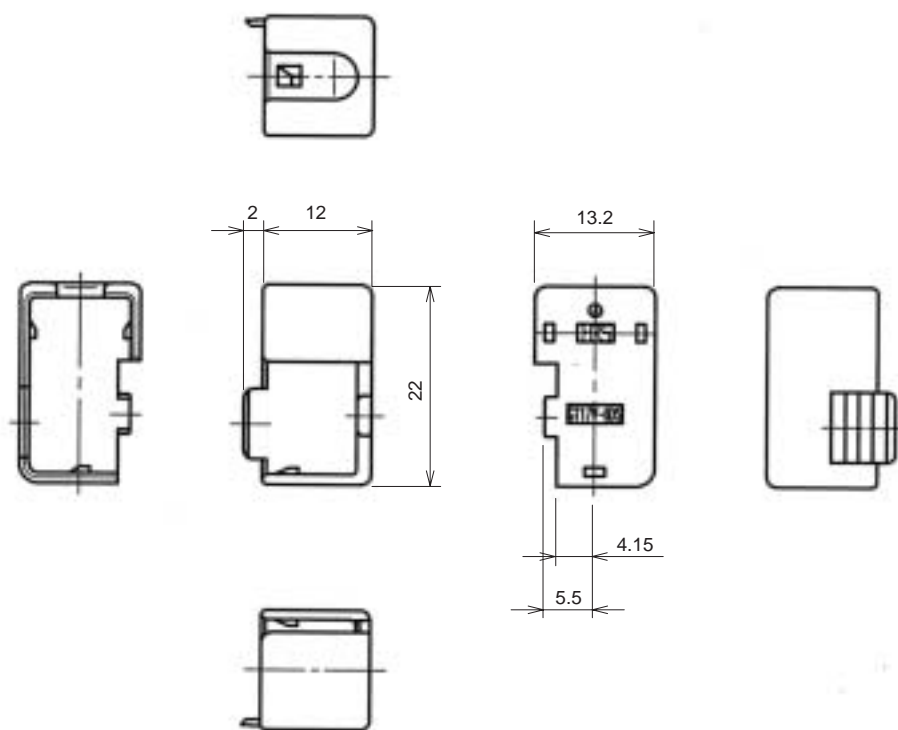
Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17V-6DS-HU	767-0029-8	PBT	Light gray	①	1
GT17VA-6DS-HU	767-0030-7	PBT	Black	②	1

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

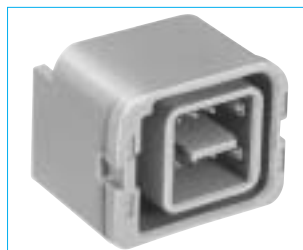
Inner Terminal	Insulator	Outer Terminal	Shield Cover	Housing	Retainer
GT17-2022SCF	GT17V-6DS-2C	GT17V-6DS-5CF	GT17V-6DS-SC	GT17V-6DS-HU	GT17V-6DS-R
GT17-2428SCF				GT17VA-6DS-HU	
GT17-30SCF					

◆ 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

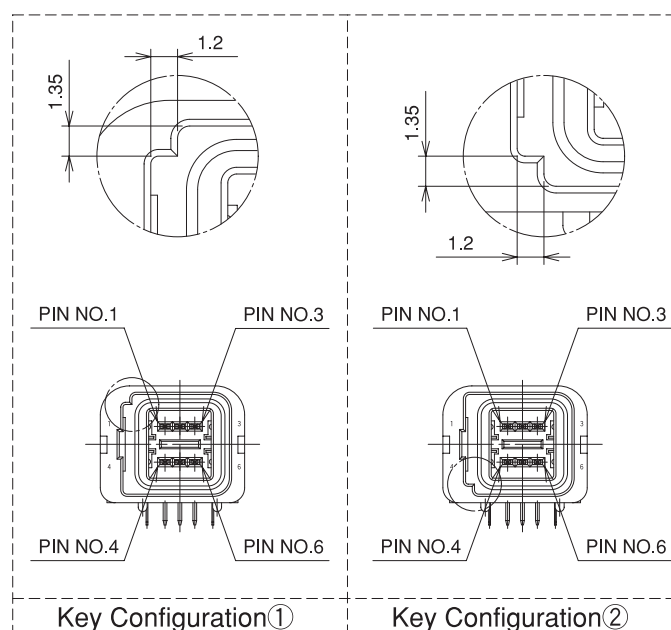
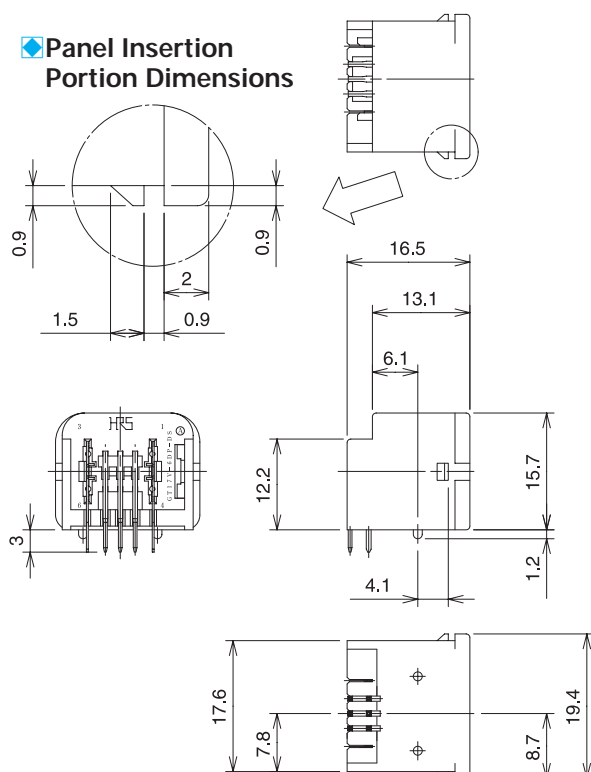


GT17V-6DP-DS

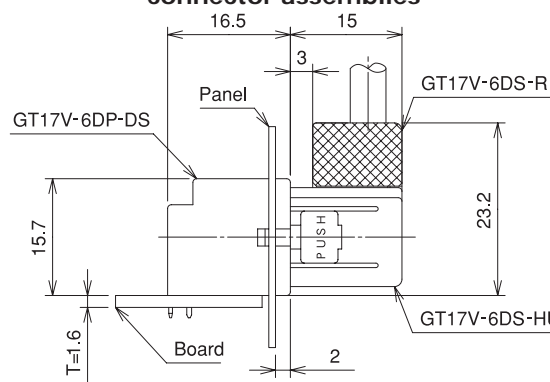


GT17VA-6DP-DS

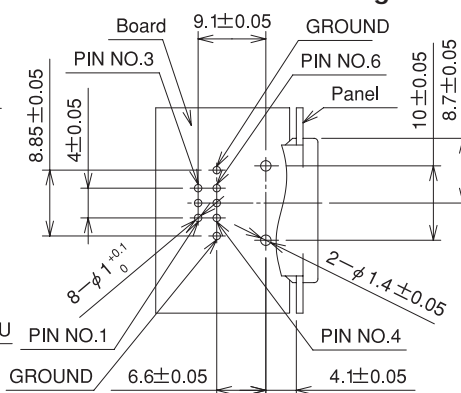
◆ Panel Insertion Portion Dimensions



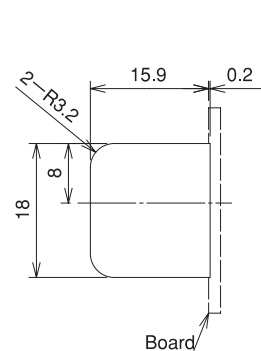
◆ Mounted and fully mated connector assemblies



◆ 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

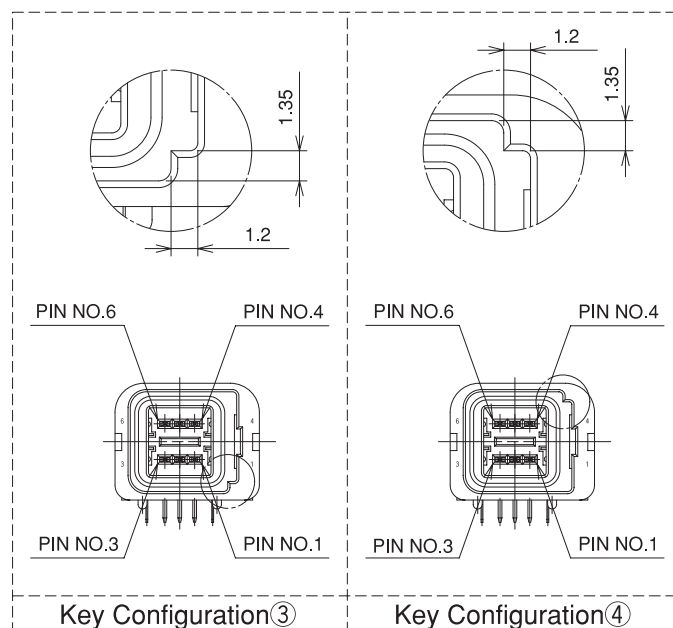
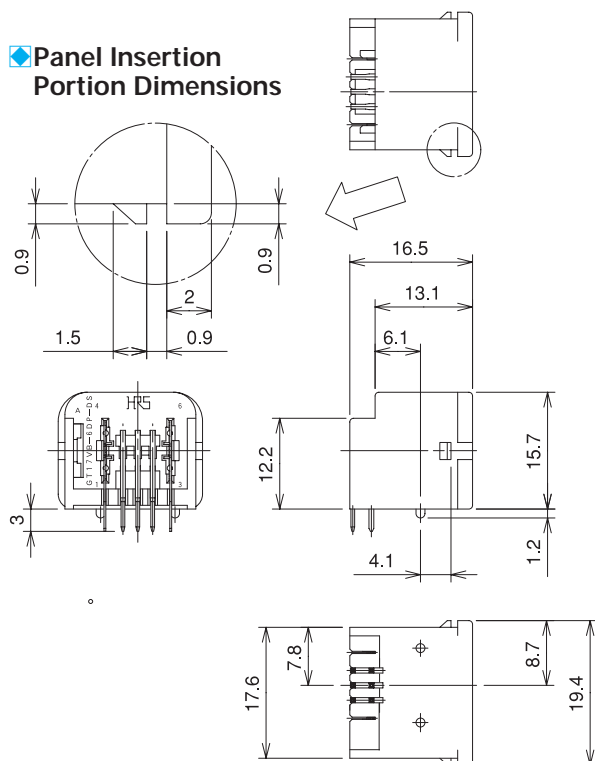


GT17VB-6DP-DS

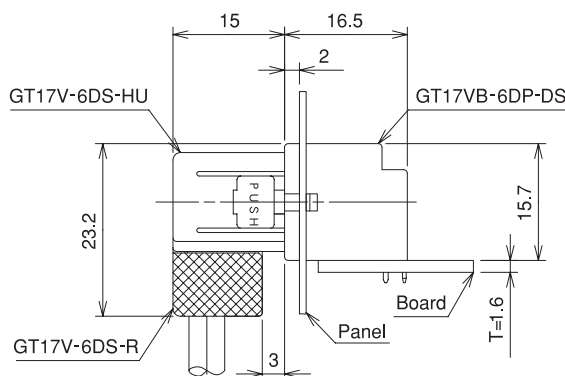


GT17VC-6DP-DS

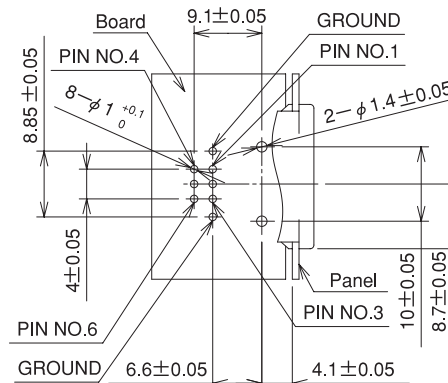
Panel Insertion Portion Dimensions



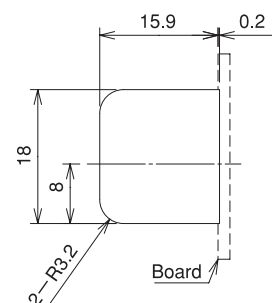
Mounted and fully mated connector assemblies



Recommended PCB Mounting Pattern



Recommended Panel Cut-out

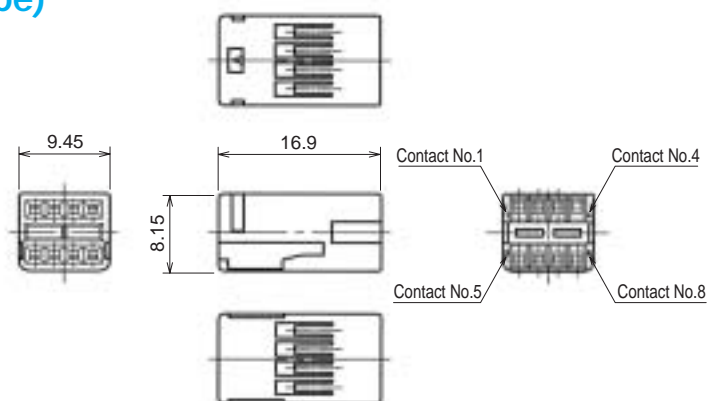


Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17VB-6DP-DS	767-0032-2	Brass (Center terminal)	Light gray	③	Downward with respect to the mounting surface	1
GT17VC-6DP-DS	767-0033-5	Copper alloy (Outer terminals)	Black	④		1
GT17VB-6DP-DS(70)	767-0032-2-70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

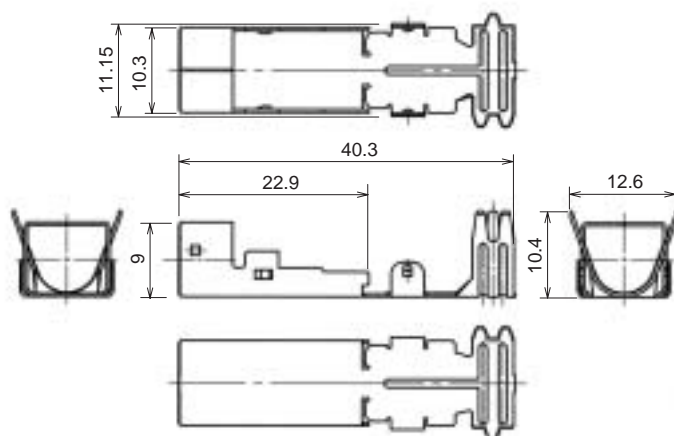
● Insulator



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

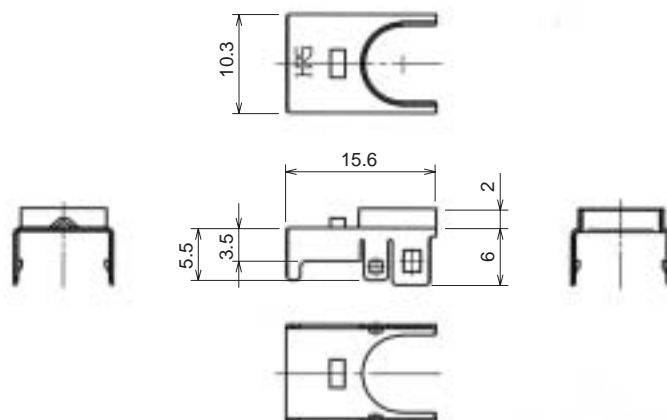


Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17-8DS-7CF	767-0007-5	Phosphor bronze	Tin plating	6.8 to 7.2 mm	1
GT17-8DS-7CF(70)	767-0007-5(70)	Phosphor bronze	Tin plating	6.8 to 7.2 mm	1

(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

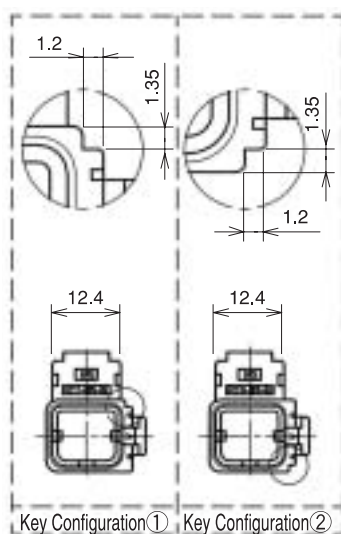
● Housing



GT17-8DS-HU

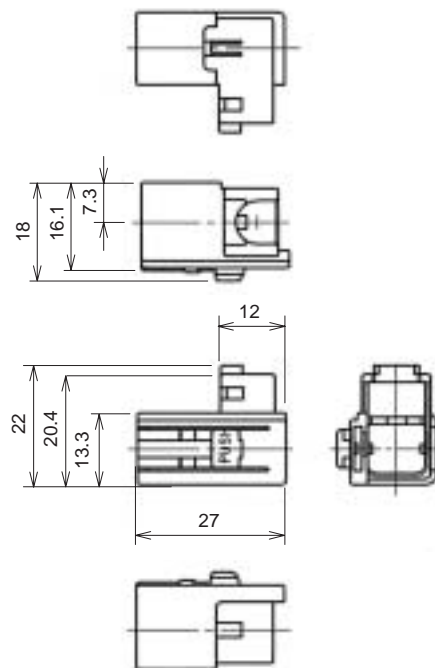
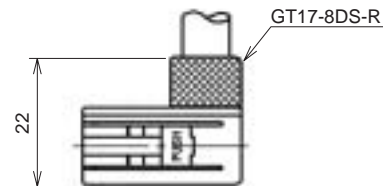


GT17A-8DS-HU



Key Configuration ① Key Configuration ②

◆ Shown with inserted retainer

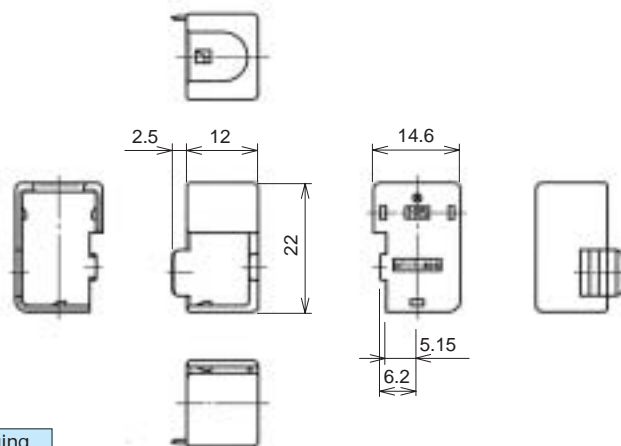


Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17-8DS-HU	767-0003-4	PBT	Light gray	①	1
GT17A-8DS-HU	767-0004-7	PBT	Black	②	1

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				GT17A-8DS-HU	
GT17-30SCF					

◆ 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	

GT17 Series

M Connectors (8-Conductor Type)

Printed Circuit Board Type

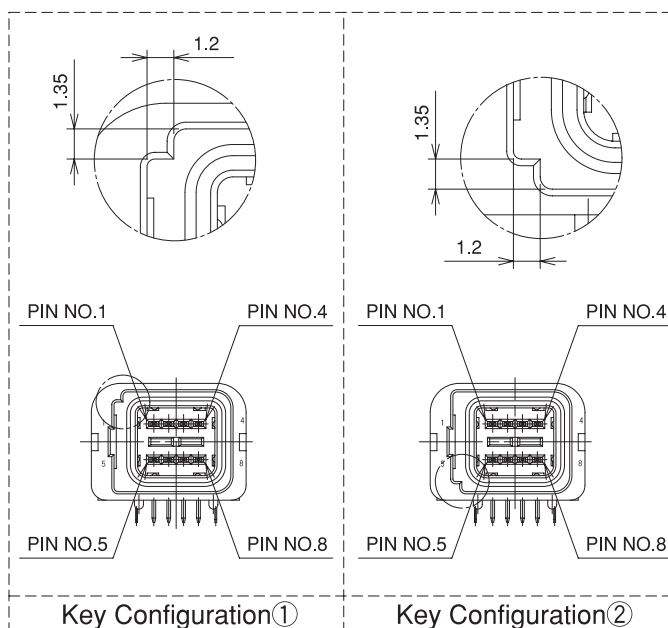
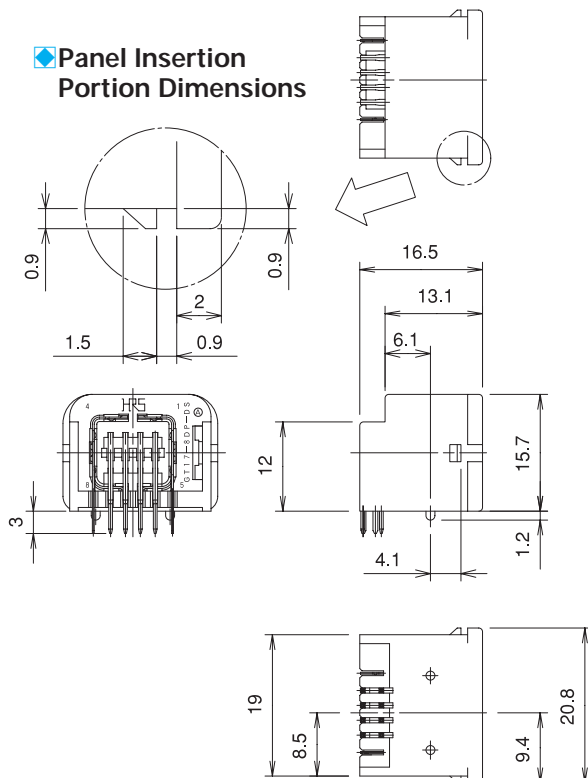


GT17-8DP-DS

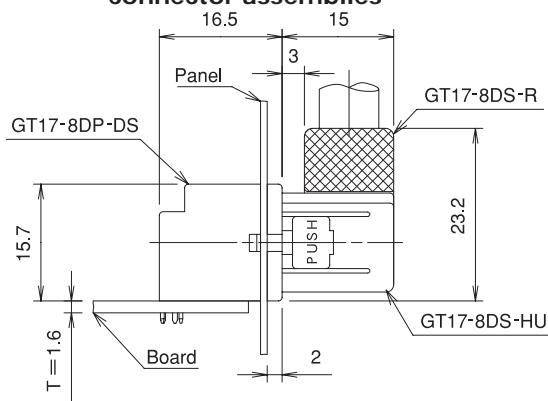


GT17A-8DP-DS

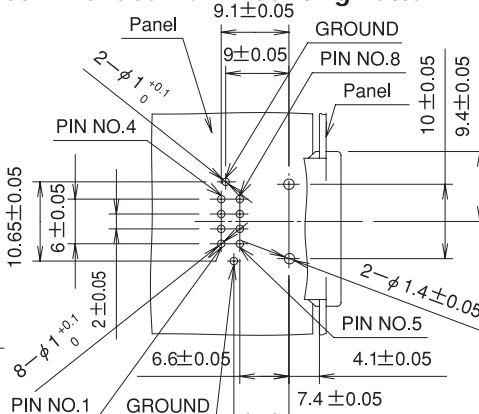
Panel Insertion Portion Dimensions



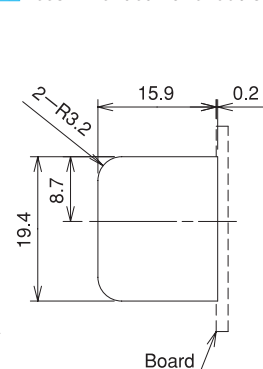
Mounted and fully mated connector assemblies



Recommended PCB Mounting Pattern



Recommended Panel Cut-out



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

(70):Pb free products.

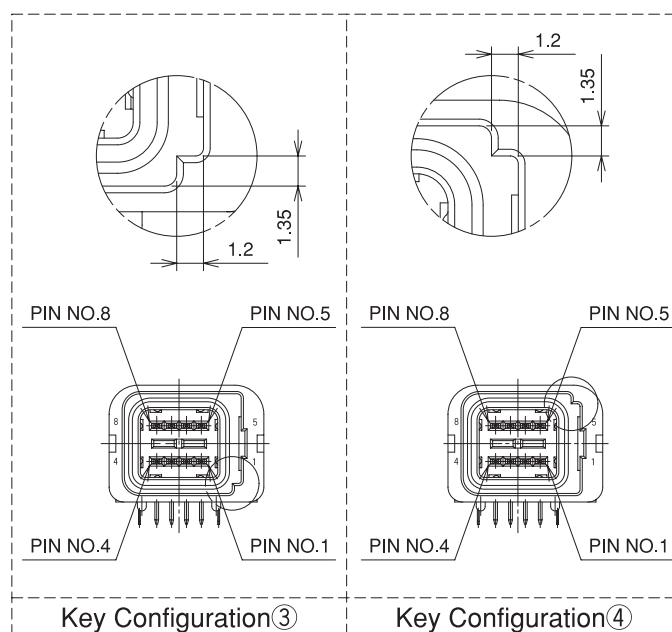
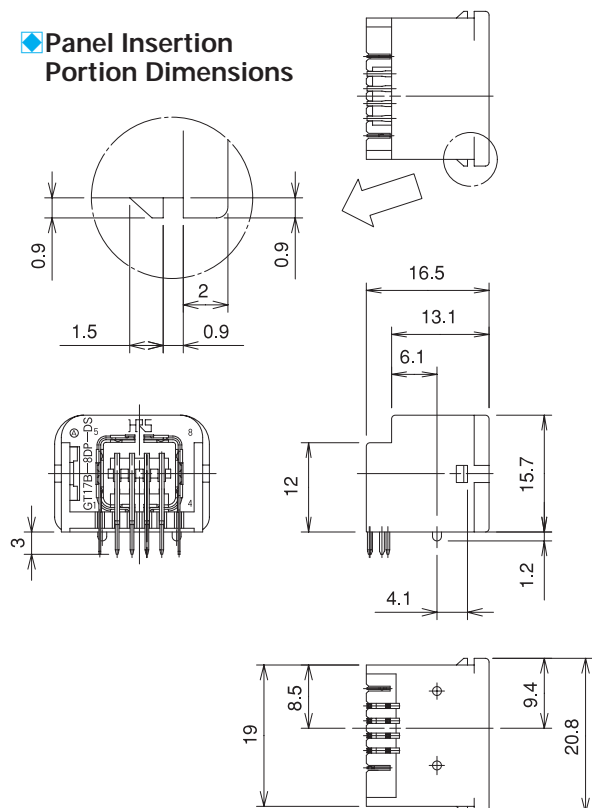


GT17B-8DP-DS

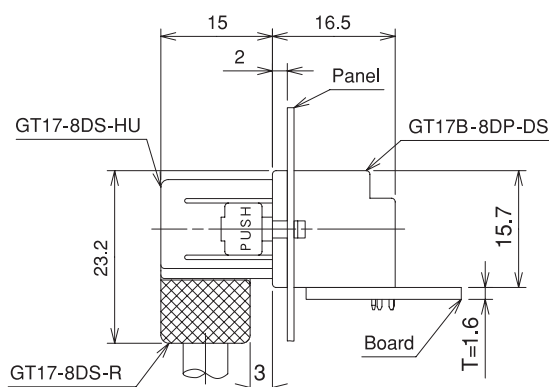


GT17C-8DP-DS

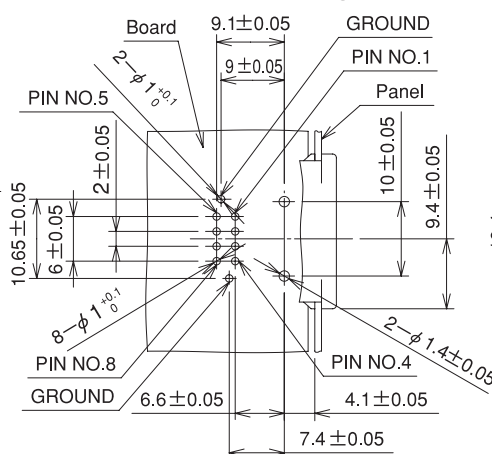
◆ Panel Insertion Portion Dimensions



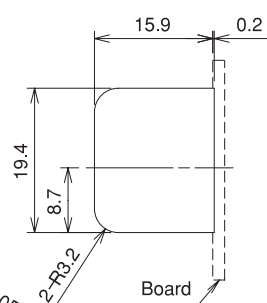
◆ Mounted and fully mated connector assemblies



◆ Recommended PCB Mounting Pattern



◆ Recommended Panel Cut-out



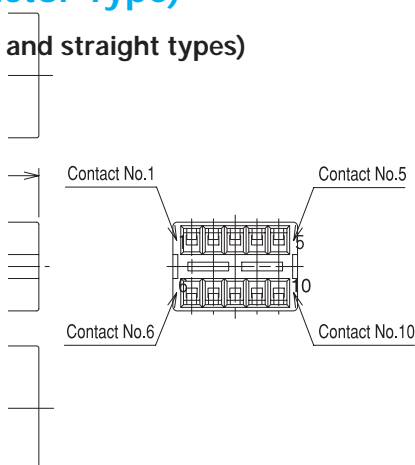
Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17B-8DP-DS	767-0020-3	Brass (Center terminal)	Light gray	③	Downward with respect to the mounting surface	1
GT17C-8DP-DS	767-0021-6	Phosphor bronze (Outer terminals)	Black	④		1
GT17B-8DP-DS(70)	767-0020-3-70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

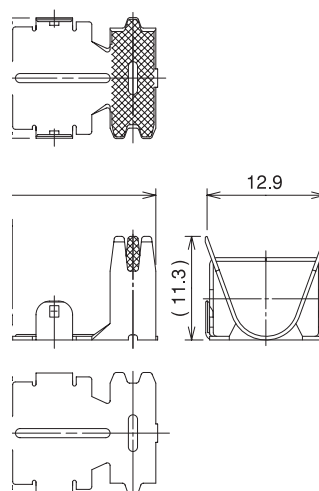
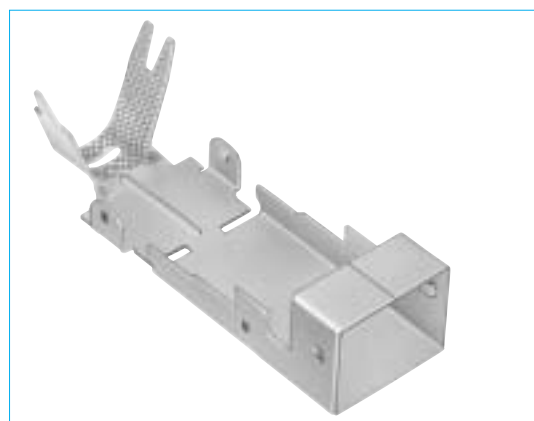
● Insulator (used for both right-angle and straight types)



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.

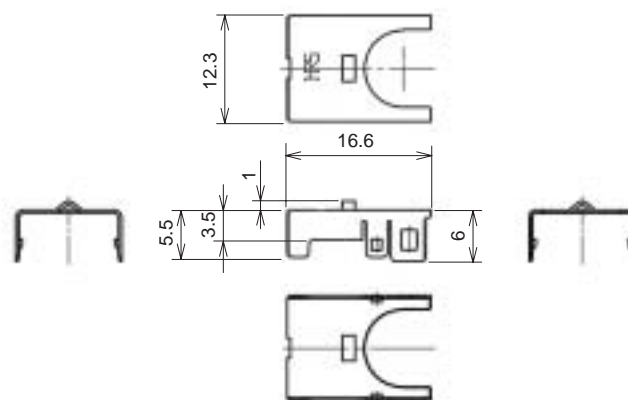
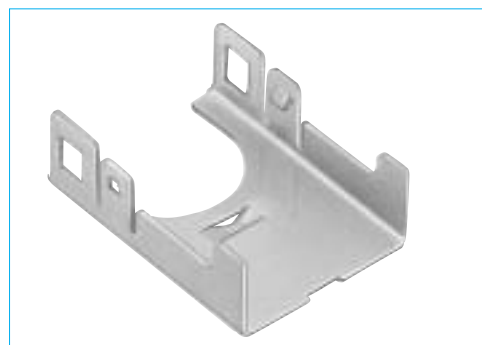
● Outer terminals (Right Angle Type)



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

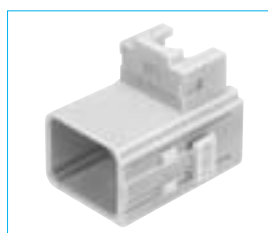
Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

● Shield Cover (Right Angle Type)



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

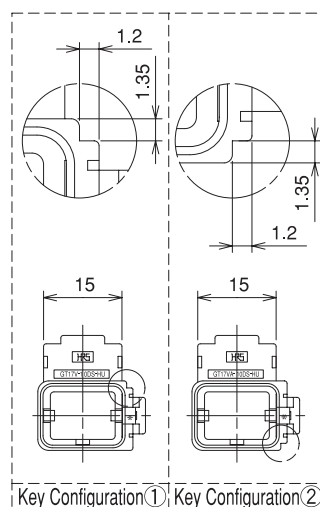
● Housing (Right-angle Type)



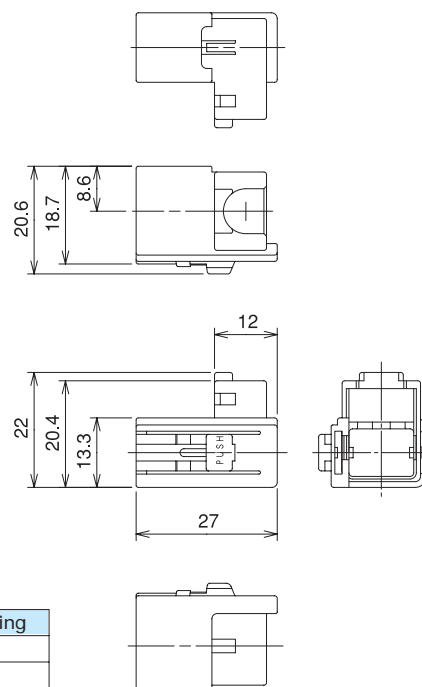
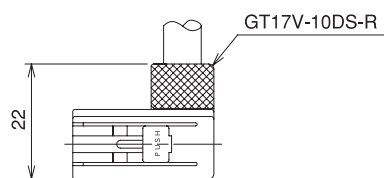
GT17V-10DS-HU



GT17VA-10DS-HU



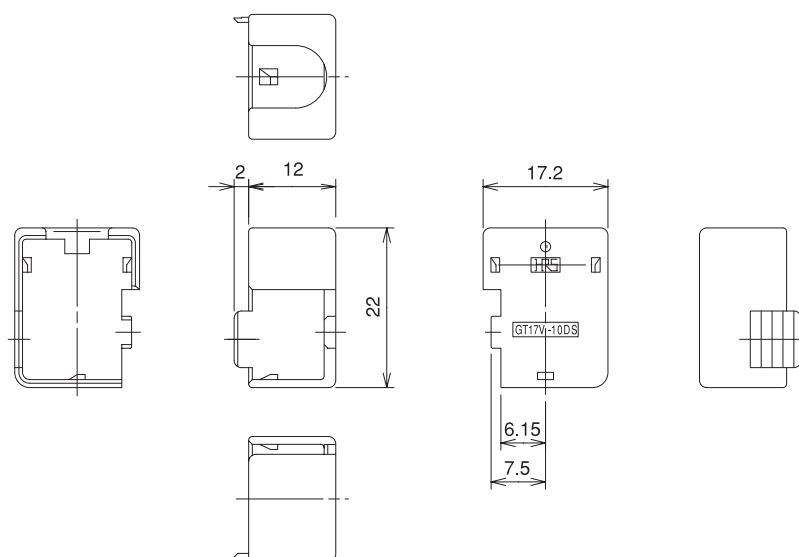
◆ Shown with inserted retainer



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)

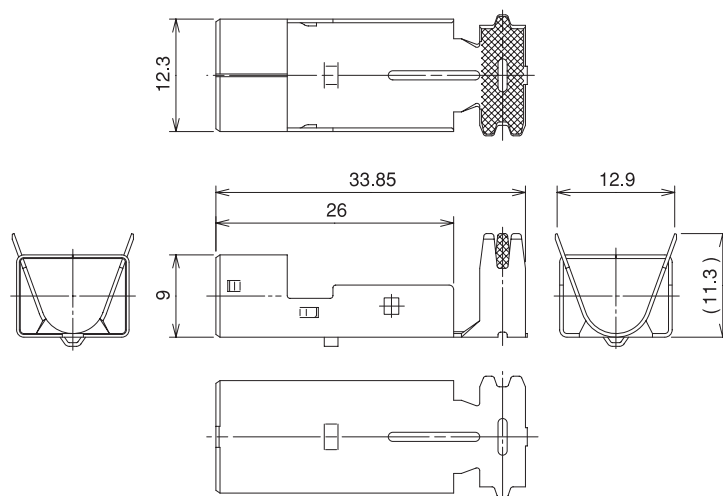
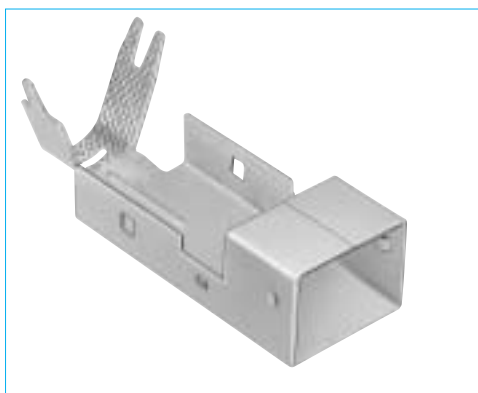


Part Number	CL No.	Material	Color	Packaging
GT17V-10DS-R	767-0041-3	PBT	Dark gray	1

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

GT17 Series

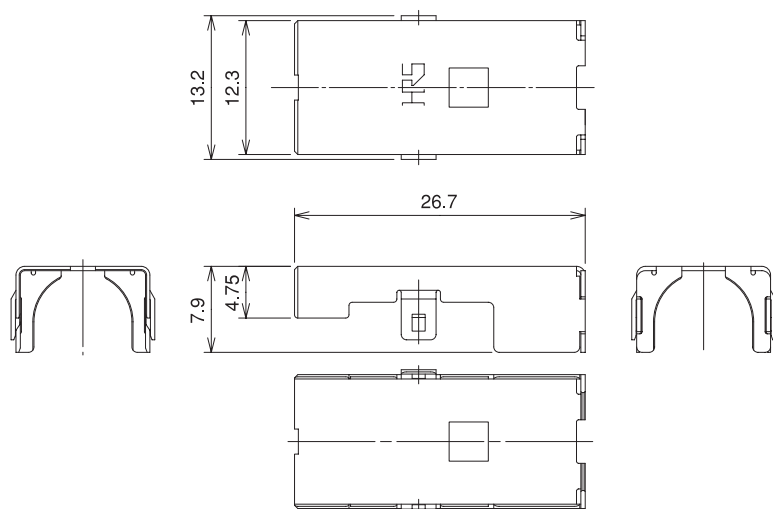
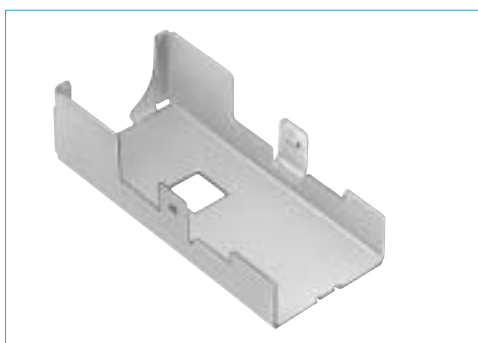
● Outer terminals (Straight Type)



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.

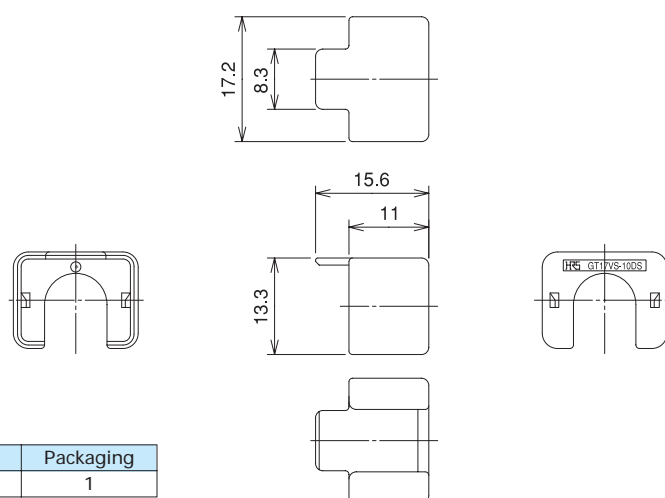
● Shield Cover (Straight Type)



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)

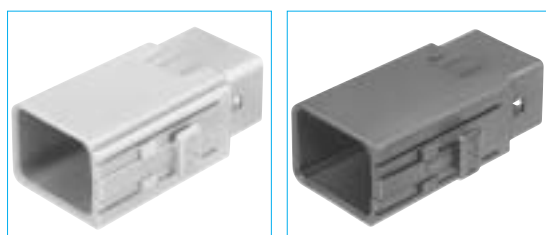


Part Number	CL No.	Material	Color	Packaging
GT17VS-10DS-R	767-0063-6	PBT	Dark gray	1

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

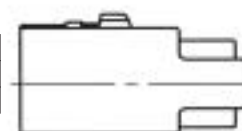
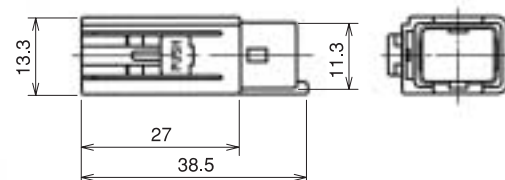
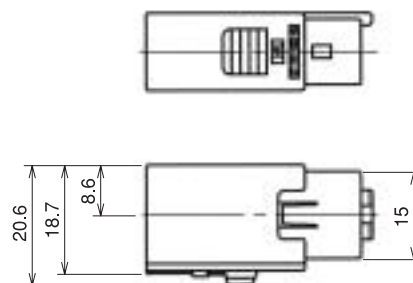
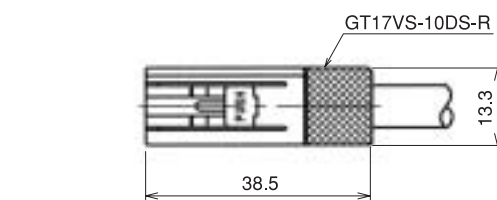
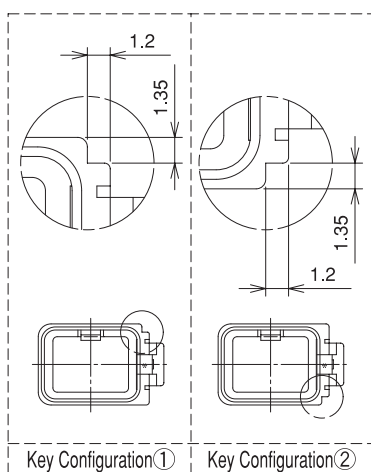
● Housing (Straight Type)

◆ 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		GT17V-10DS-8CF	GT17V-10DS-SC	GT17VA-10DS-HU	
GT17-30SCF		GT17VS-10DS-8CF	GT17VS-10DS-SC	GT17VS-10DS-HU	GT17VS-10DS-R
				GT17VSA-10DS-HU	

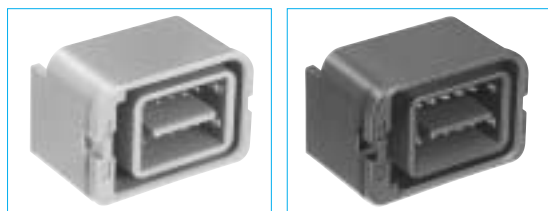
◆ 10-Conductor Type Mating Table

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

GT17 Series

M Connectors (10-Conductor Type)

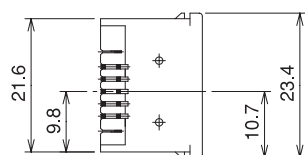
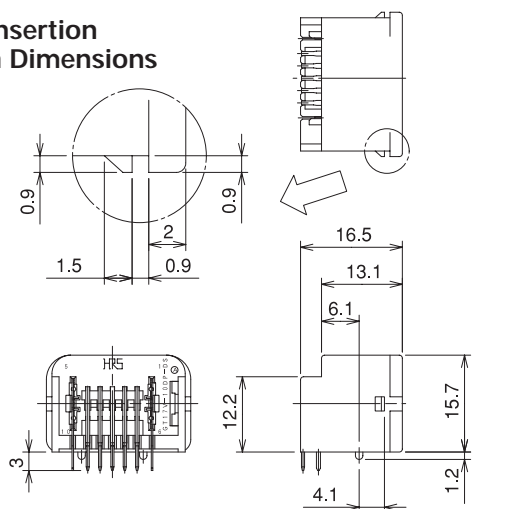
● Printed Circuit Board Type (Right-angle Type)



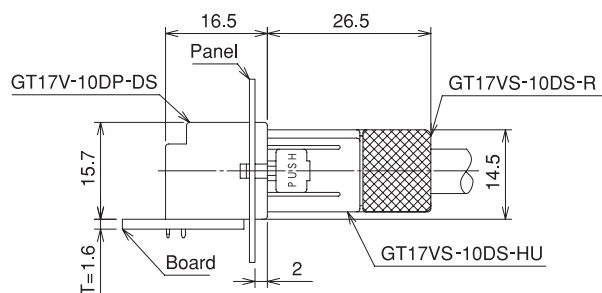
GT17V-10DP-DS

GT17VA-10DP-DS

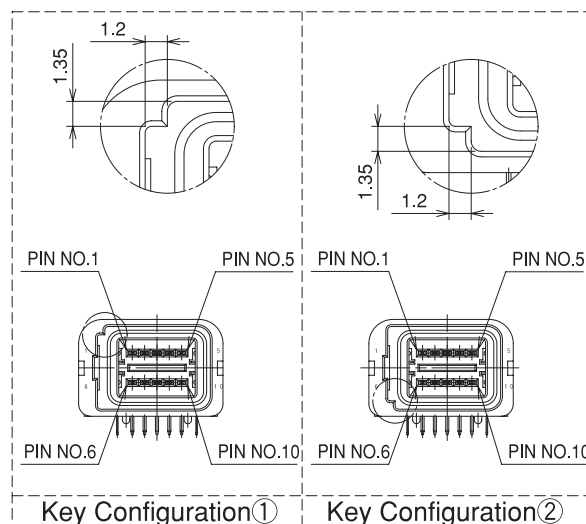
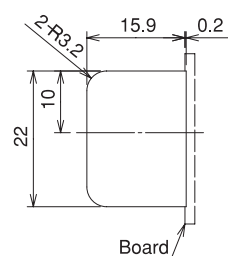
◆ Panel Insertion Portion Dimensions



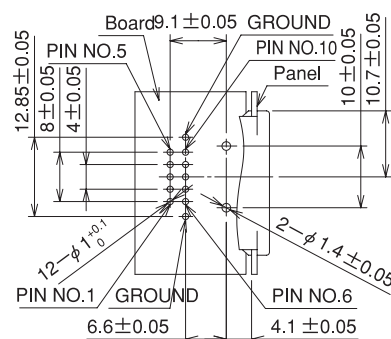
◆ Mounted and fully mated connector assemblies



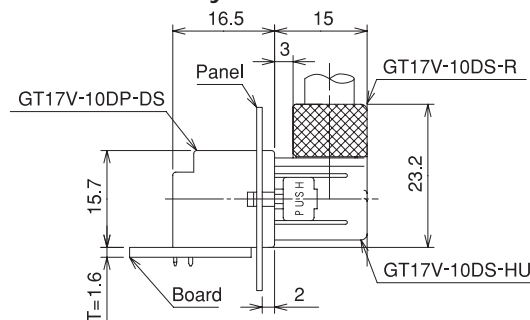
◆ Recommended Panel Cut-out



◆ Recommended PCB Mounting Pattern



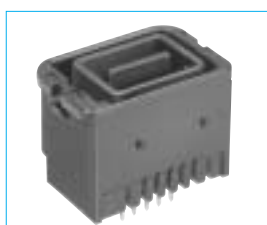
◆ Mounted and fully mated connector assemblies



Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-10DP-DS	767-0034-8	Brass (Center terminal)	Light gray	①	Upward with respect to the mounting surface	1
GT17VA-10DP-DS	767-0035-0	Copper alloy (Outer terminals)	Black	②		1
GT17V-10DP-DS(70)	767-0034-8-70	PBT (Housing)	Light gray	①		1
GT17VA-10DP-DS(70)	767-0035-0-70		Black	②		1

(70):Pb free products.

Recommended Panel Cut-out



GT17VA-10DP-DSA

Insertion Dimensions

Technical drawing of the GT17V-10DP-DSA assembly. The drawing shows a side view of the assembly with the following dimensions and components labeled:

- Overall length: 26.5
- Distance from the left edge to the start of the panel: $T=1.6$
- Panel width: 16.5
- Distance from the panel to the start of the GT17VS-10DS-R component: 2
- Height of the assembly: 15.7
- Height of the GT17VS-10DS-R component: 14.5
- Components labeled: GT17V-10DP-DSA, Panel, GT17VS-10DS-R, Board, and GT17VS-10DS-HU.

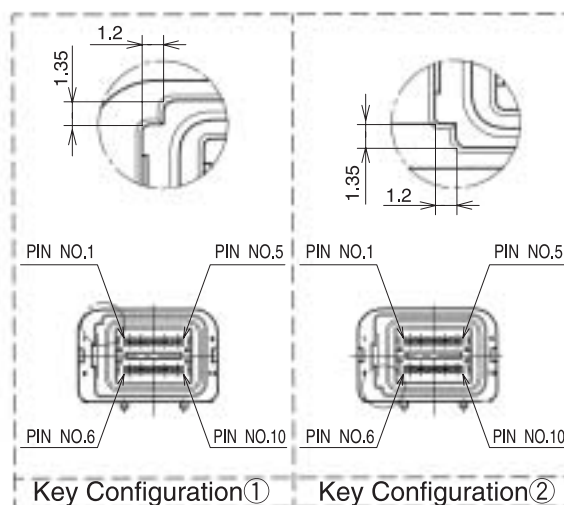
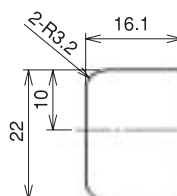
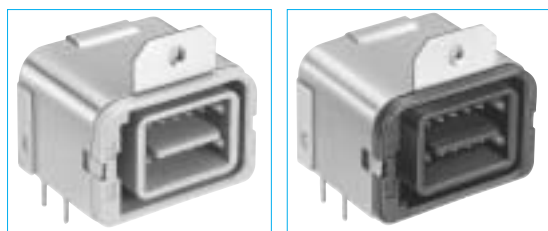


Figure 1: Dimensions of the GT17V-10DP-DSA package. The diagram shows a square package with various dimensions and pin locations. Key dimensions include: overall width 15.7, overall height 23.4, pin pitch 7.85 ± 0.05, pin diameter 12.85 ± 0.5, and pin offset 4 ± 0.05. Pins are labeled PIN NO.1, PIN NO.5, PIN NO.6, and PIN NO.10. Ground locations are also indicated. The package is labeled GT17V-10DP-DSA.

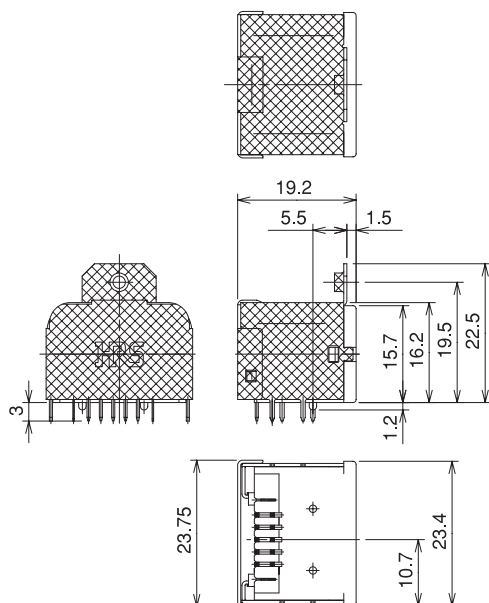
(70):Pb free products.

GT17 Series

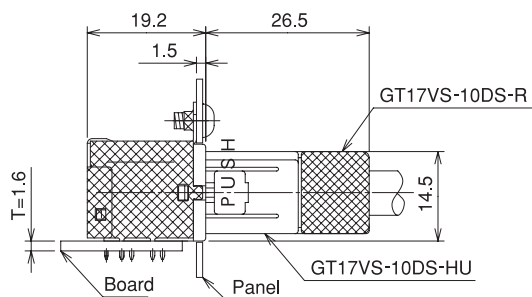
● Printed Circuit Board Type (Shield Reinforced Type)



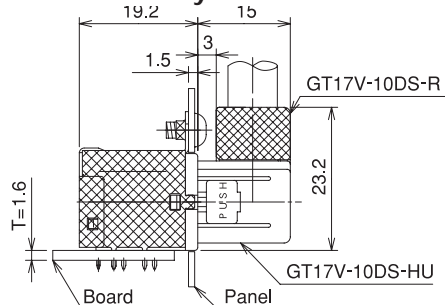
GT17V-10DP-DS-SB GT17VA-10DP-DS-SB



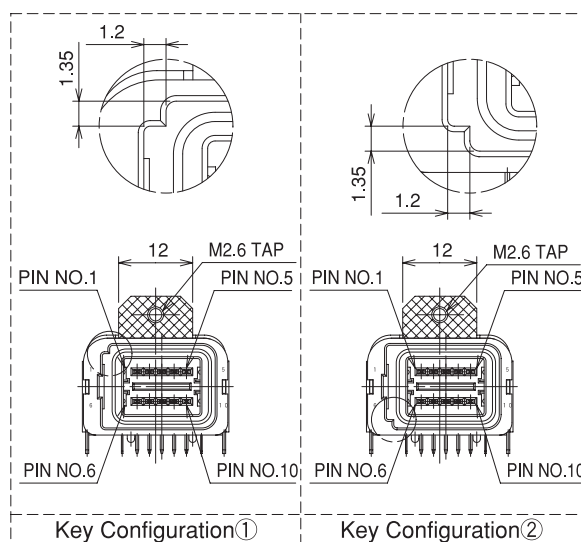
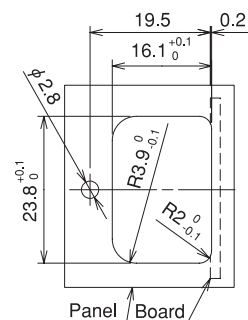
◆ Mounted and fully mated connector assemblies



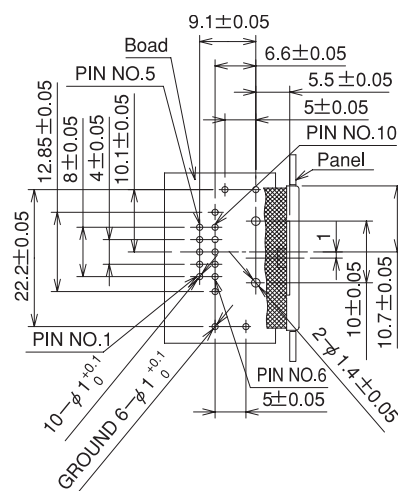
◆ Mounted and fully mated connector assemblies



◆ Recommended Panel Cut-out



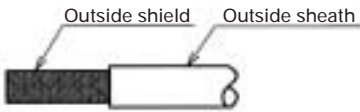
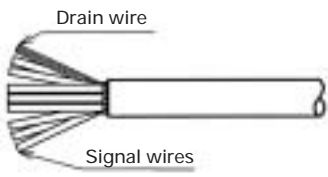
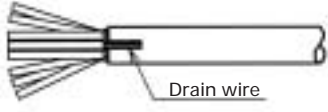
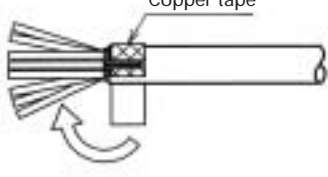
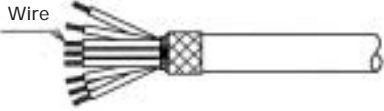
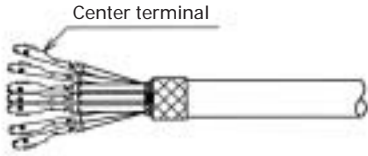

◆ Recommended PCB Mounting Pattern



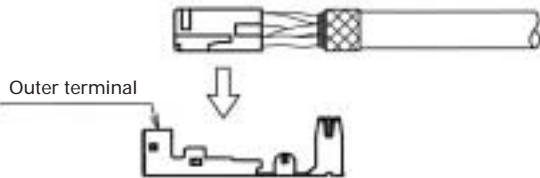
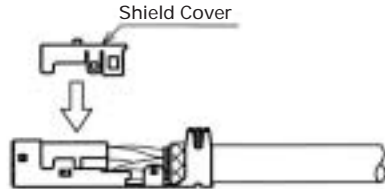



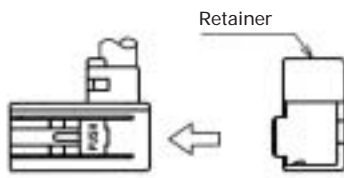
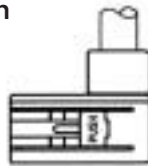
Part Number	HRS No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-10DP-DS-SB	767-0069-2	Brass (Center terminal)	Light gray	①	Upward with respect to the mounting surface	1
GT17VA-10DP-DS-SB	767-0070-1	Copper alloy (Outer terminals)	Black	②		1
GT17V-10DP-DS-SB(70)	767-0069-2-70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

(70):Pb free products.

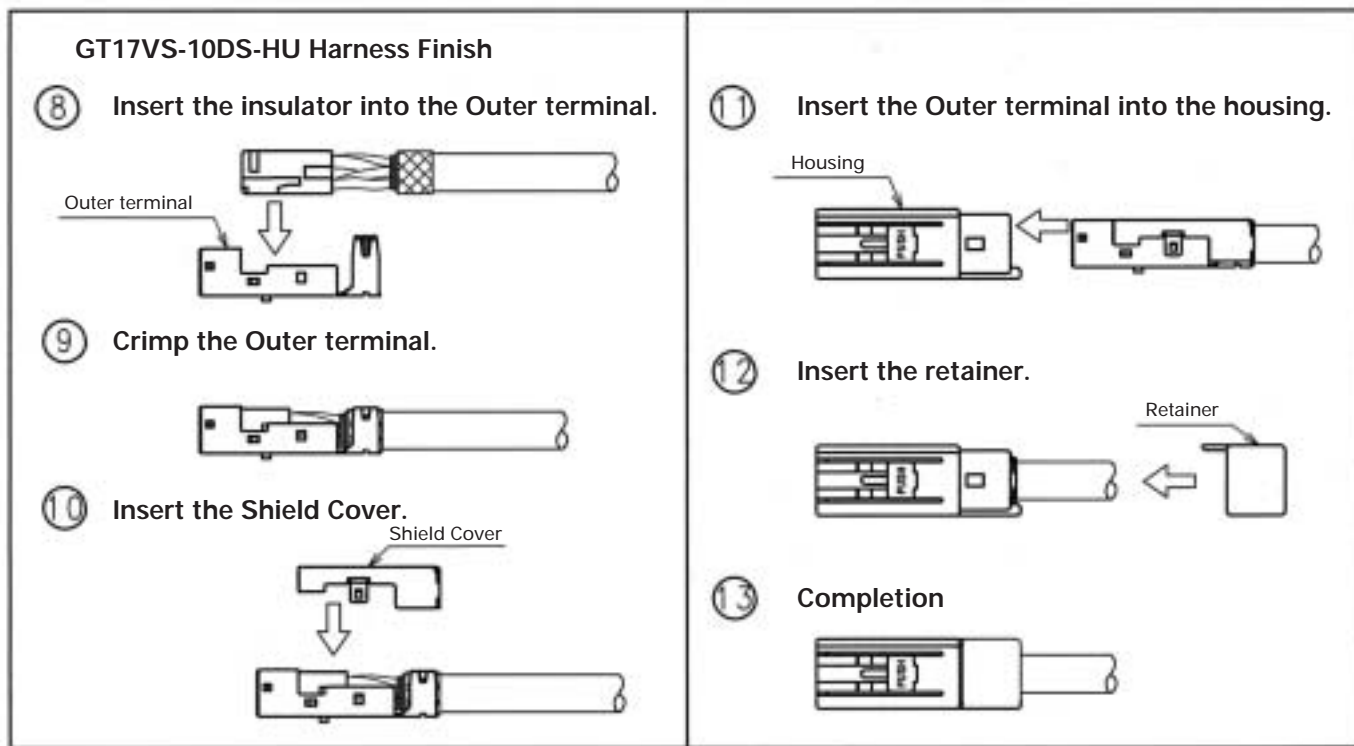
◆ Wiring Method

- 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



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.

Mouser Electronics

Authorized Distributor

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Hirose Electric:

[GT17VS-10DS-4.6/CR-MP\(01\)](#) [GT17VS-10DP-5.2/CR-MP\(62\)](#) [GT17VS-10DP-5.2/CR-MP\(01\)](#) [GT17VS-10DP-5.2/CR-MP\(61\)](#) [GT17VS-10DS-4.6/CR-MP\(61\)](#) [GT17VS-10DS-4.6/CR-MP\(62\)](#)