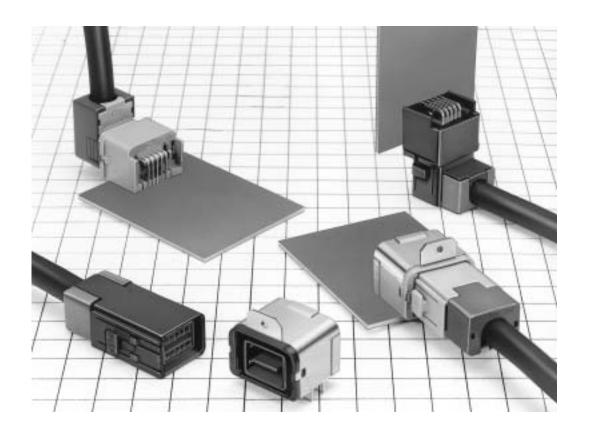
## **GT17 Series**

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



#### Features

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

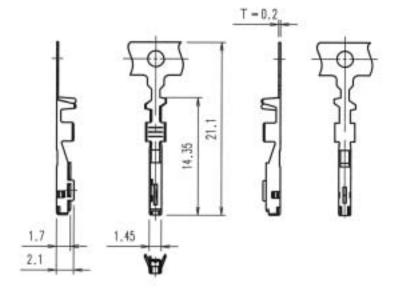
## Applications

In-car data communications, etc.

#### F Connectors

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



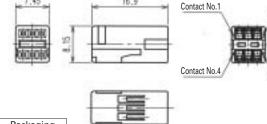


Part Number	CL No.	Material	Finish	Conductor Size (AWG)	Outer Diameter	Packaging
GT17-2022SCF	767-0009-0	Copper alloy	Tin plating	#20 to 22	1.1 to 1.3 mm	10,000 pcs. per reel
GT17-2428SCF	767-0010-0	Copper alloy	Tin plating	#24 to 28	0.7 to 1.0 mm	10,000 pcs. per reel
GT17-30SCF	767-0064-9	Copper alloy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

## F Connectors (6-Conductor Type)







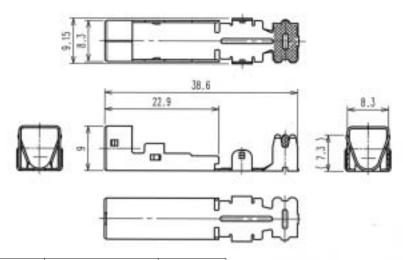
Contact No.6

Part Number	CL NO.	iviateriai	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 terminals



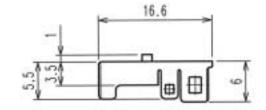


Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17V-6DS-5CF	767-0027-2	Copper alloy	Tin plating	4.8 to 5.2 mm	1

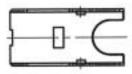
#### Shield Cover











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

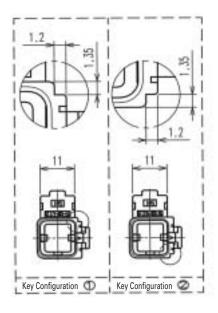
#### Housing



GT17V-6DS-HU



GT17VA-6DS-HU

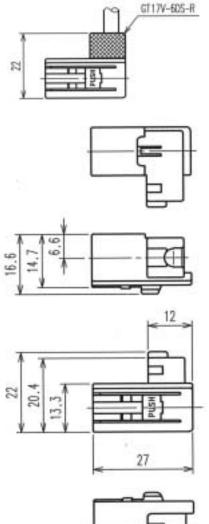


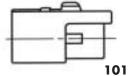
Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17V-6DS-HU	767-0029-8	PBT	Light gray	1	1
GT17VA-6DS-HU	767-0030-7	PBT	Black	2	1

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

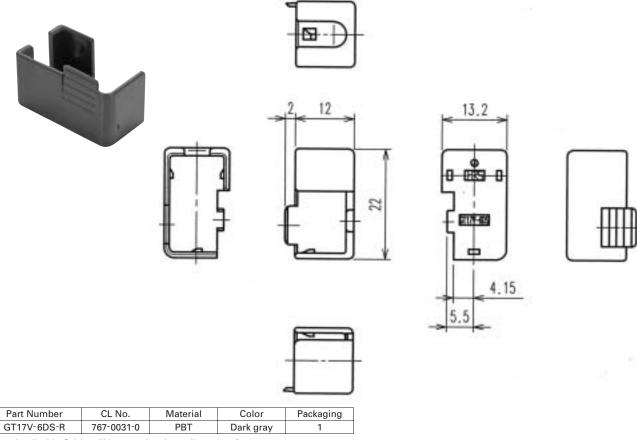
Note 2: Applicable Cable will have an outside sheath diameter of 4.8 to 5.2 mm.

#### **Shown with inserted retainer**





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



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-HU		
GT17-2428SCF	GT17V-6DS-2C	GT17V-6DS-5CF	GT17V-6DS-5CF	GT17V-6DS-SC		GT17V-6DS-R
GT17-30SCF				GT17VA-6DS-HU		

#### **●**6-Conductor Type Mating Table

F Connector	M Connector	Color
GT17V-6DS-HU	GT17V-6DP-DS	Light grov
G117V-6D3-HU	GT17VB-6DP-DS	Light gray
GT17VA-6DS-HU	GT17VA-6DP-DS	Black
GTT/VA-6D5-HU	GT17VC-6DP-DS	Біаск

## M Connectors (6-Conductor Type)

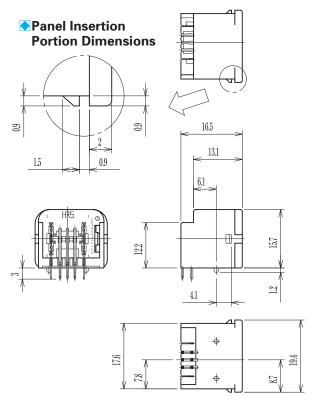
#### ● Printed Circuit Board Type

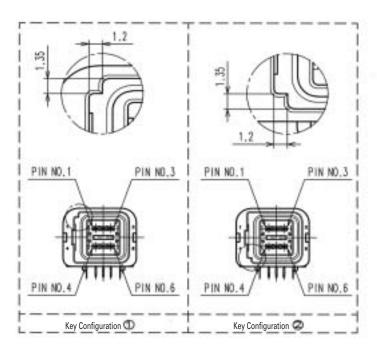




GT17V-6DP-DS

GT17VA-6DP-DS

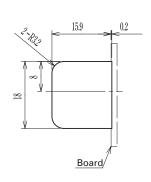




## Mounted and fully mated connector assemblies

Board

GROUND



	16.5	15	
GT17V-6DP-DS	Panel	3	GT17V-6DS-R
155	₩ ∪	H S D d	GT17V-6DS-HU
T=1.6	Board	2	

	<del></del>	ı
PIN NO.3	PIN NO.6 2000 # 2800 # 28	
885 ± 0.05 4 ± 0.05		١
		V
4 91 9	2-01.4 ±0.05	
PIN NO.1	PIN NO.4	
GROUND 6.6 ± 0.05	4.1 ± 0.05	

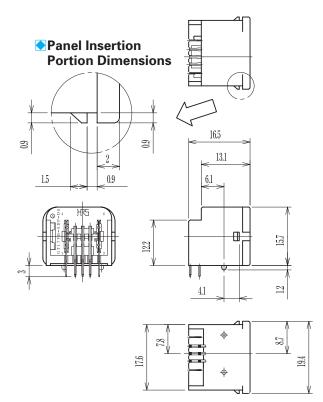
Part Number	CL No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-6DP-DS	767-0024-4	Brass (Center terminal) - Copper alloy (Outer terminals) - PBT (Housing)	Light gray	1)	Upward with respect to the mounting surface	1
GT17VA-6DP-DS	767-0025-7		Black	2		1

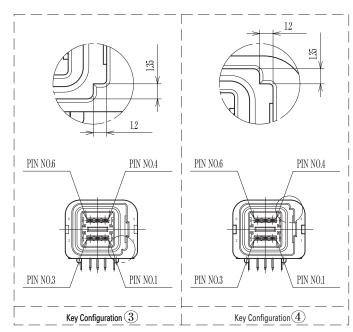




GT17VB-6DP-DS

GT17VC-6DP-DS

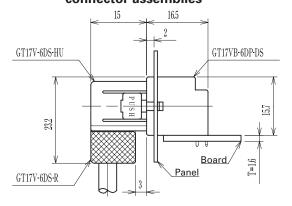


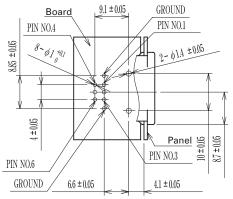


#### Mounted and fully mated connector assemblies

### **▶** Recommended PCB Mounting Pattern **▶** Recommended Panel Cut-out







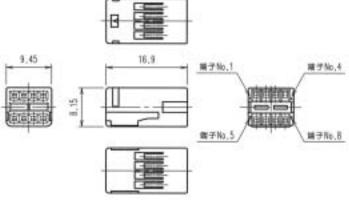
<u></u>	15.9 0.2
1	
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	l i
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	Board
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Part Number	CL No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17VB-6DP-DS	767-0032-2	Brass (Center terminal) Copper alloy (Outer terminals)	Light gray	3	Downward with respect	1
GT17VC-6DP-DS	767-0033-5	PBT (Housing)	Black	4)	to the mounting surface	1

## F Connectors (8-Conductor Type)

Insulator



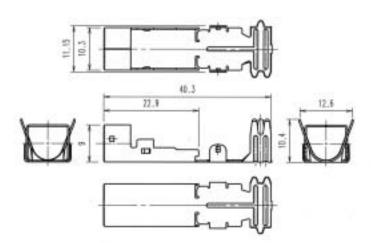


Part Number	CL No.	Material	Color	Packaging
GT17-8DS-2C	767-0005-0	PBT	Dark gray	1

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

#### Outer terminals



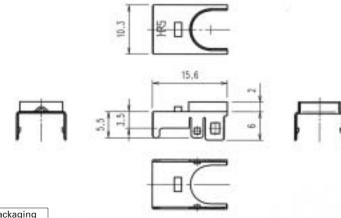


Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17-8DS-7CF	767-0007-5	Phosphor bronze	Tin plating	6.8 to 7.2 mm	1

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

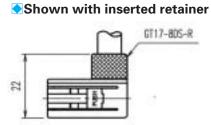
#### Housing

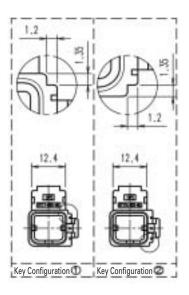


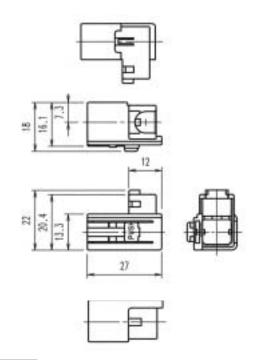




GT17A-8DS-HU







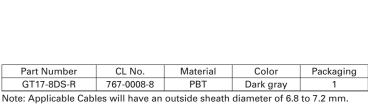
Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17-8DS-HU	767-0003-4	PBT	Light gray	1	1
GT17A-8DS-HU	767-0004-7	PBT	Black	2	1

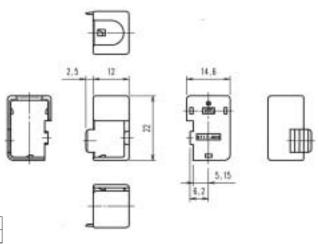
Note 1: Used with the separate retainer (GT17-8DS-R).

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

#### Retainer







## F Connector (8-Conductor Type) Composition Table

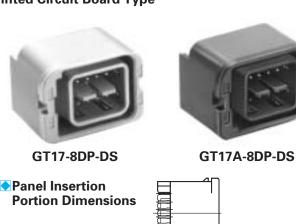
Inner Terminal	Insulator	Outer Terminal	Shield Cover	Housing	Retainer
GT17-2022SCF				GT17-8DS-HU	
GT17-2428SCF	GT17-8DS-2C	GT17-8DS-7CF			GT17-8DS-R
GT17-30SCF				GT17A-8DS-HU	

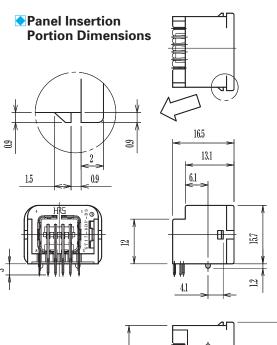
## **№**8-Conductor Type Mating Table

F Connec	tor	M Connector	Color
GT17-8DS		GT17-8DP-DS	Limbt mun.
G117-8DS	-по	GT17B-8DP-DS	Light gray
GT17A-8D9	2 1111	GT17A-8DP-DS	Black
G11/A-8D3	<b>5</b> -ПО	GT17C-8DP-DS	DIACK

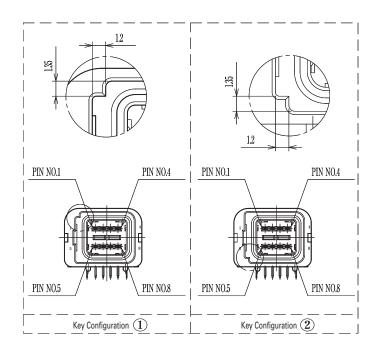
## M Connectors (8-Conductor Type)

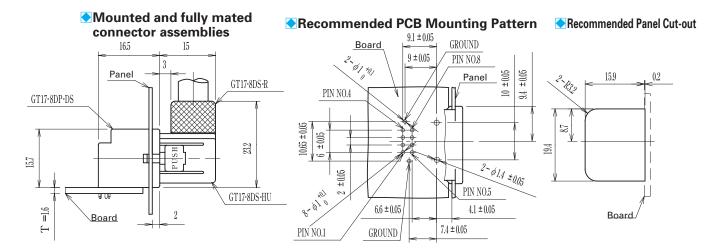
#### Printed Circuit Board Type





19





Part Number	CL No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17-8DP-DS	707-0001-3	Brass (Center terminal) Phosphor bronze (Outer terminals)	Ligiit gray	1)	Upward with respect to	1
GT17A-8DP-DS	767-0002-1	PBT (Housing)	Black	2	the mounting surface	1

20.8

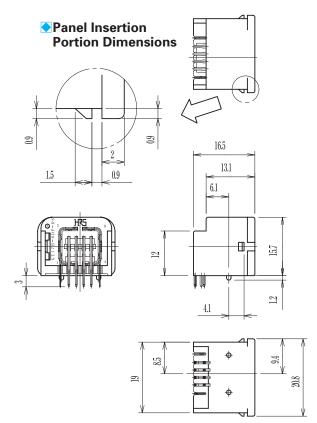
9.4

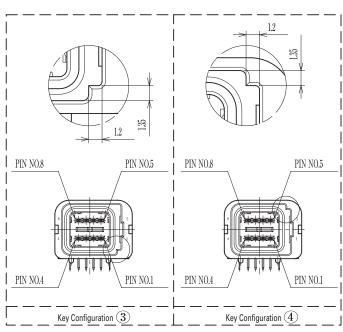




GT17B-8DP-DS

GT17C-8DP-DS

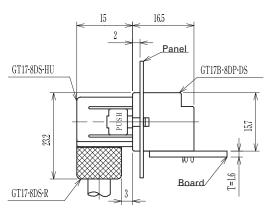


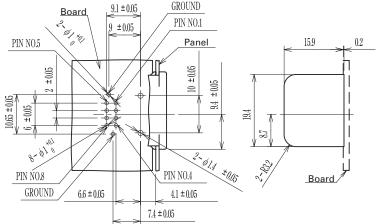


## Mounted and fully mated connector assemblies

## Recommended PCB Mounting Pattern Board 91±005 GROUND





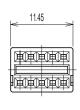


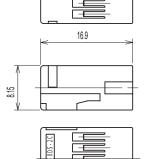
Part Number	CL No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17B-8DP-DS	767-0020-3	Brass (Center terminal)  Phosphor bronze (Outer terminals)	Light gray	3	Downward with respect to	1
GT17C-8DP-DS	767-0021-6	PBT (Housing)	Black	4)	the mounting surface	1

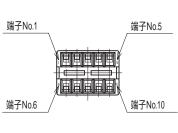
## F Connectors (10-Conductor Type)

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







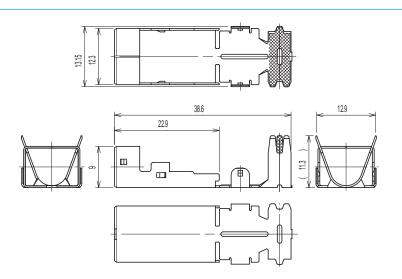


Part Number	CL No.	Material	Color	Packaging
GT17V-10DS-2C	767-0036-3	PBT	Dark gray	1
				•

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

#### Outer terminals (Right Angle)





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

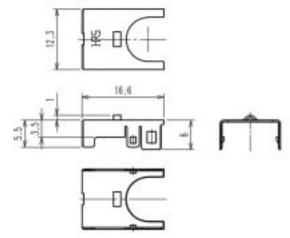
Note: The crimping conditions will differ depending on the construction and material of the cable. In view of this, please make arrangements to ascertain whether crimping is possible for each cable.

#### Shield Cover (Right Angle)









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

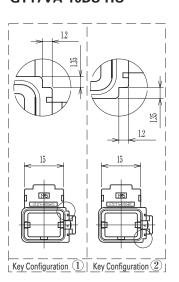
#### ● Housing (Right-angle Type)

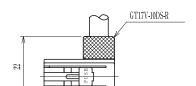


GT17V-10DS-HU

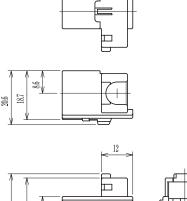


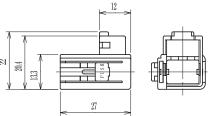
GT17VA-10DS-HU





**♦**Shown with inserted retainer



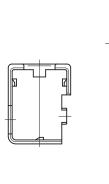


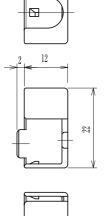
Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17V-10DS-HU	767-0039-1	PBT	Light gray	1	1
GT17VA-10DS-HU	767-0040-0	PBT	Black	2	1

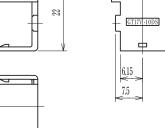
Note: Used with the separate retainer (GT17-10DS-R).

#### ● Retainer (Right-angle Type)

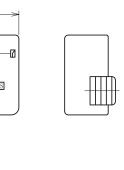






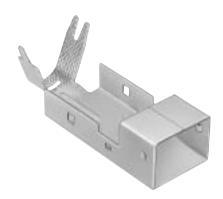


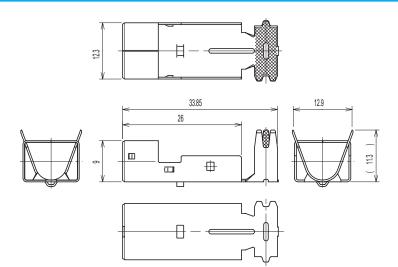
17.2



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

#### Outer terminals (Straight Type)



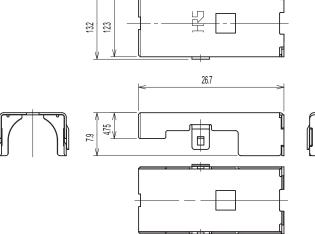


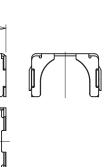
Part Number	CL No.	Material	Finish	Outer Diameter	Packaging
GT17VS-10DS-8CF	767-0059-9	Copper alloy	Tin plating	7.5 to 8.0 mm	1

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)







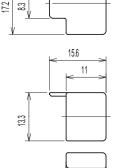
Part Number	CL No.	Material	Finish	Packaging
GT17VS-10DS-SC	767-0060-8	Copper alloy	Tin plating	1

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

#### Retainer (Straight Type)









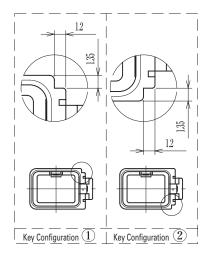
Part Number	CL No.	Material	Color	Packaging
GT17VS-10DS-R	767-0063-6	PBT	Dark gray	1

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

#### Housing (Straight Type)

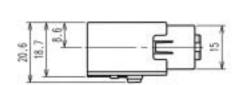


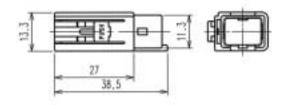
GT17VS-10DS-HU GT17VSA-10DS-HU



# GT17VS-100S-R 38.5

**♦** Shown with inserted retainer

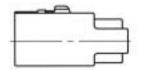




Part Number	CL No.	Material	Color	Key Configurations	Packaging
GT17VS-10DS-HU	767-0061-0	PBT	Light gray	1	1
GT17VSA-10DS-HU	767-0062-3	PBT	Black	2	1

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		CT17V 10DC 0CE	CT17V 10DC CC	GT17V-10DS-HU	GT17V-10DS-R
GT17-2428SCF	CT17\/ 10DC 1C	GT17V-10DS-8CF	G11/V-10D3-3C	GT17VA-10DS-HU	
G117-24203CF	G11/V-10D3-2C			CT17VC 10DC UII	
GT17-30SCF		G11/VS-10DS-8CF	GT17VS-10DS-SC	GT17VSA-10DS-HU	G11/VS-10DS-R

## **≥** 10-Conductor Type Mating Table

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

## M Connectors (10-Conductor Type)

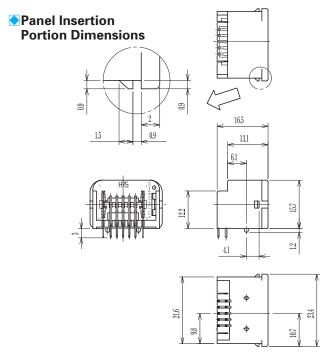
#### ● Printed Circuit Board Type (Right-angle Type)



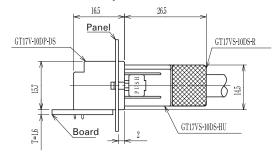


GT17V-10DP-DS

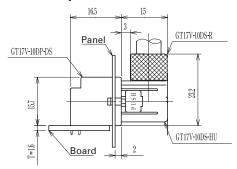
GT17VA-10DP-DS



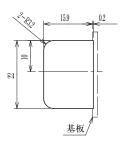
#### Mounted and fully mated connector assemblies

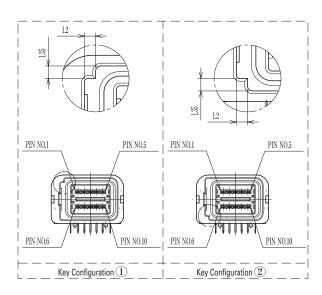


#### Mounted and fully mated connector assemblies

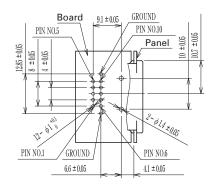


#### **Necommended Panel Cut-out**





#### **►** Recommended PCB Mounting Pattern



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

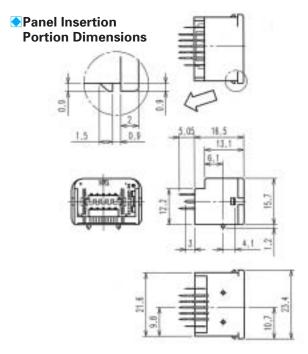
#### ● Printed Circuit Board Type (Straight Type)



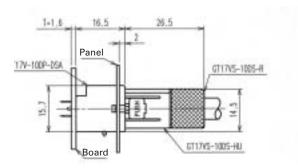


GT17V-10DP-DSA

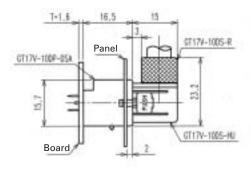
GT17VA-10DP-DSA



#### Mounted and fully mated connector assemblies

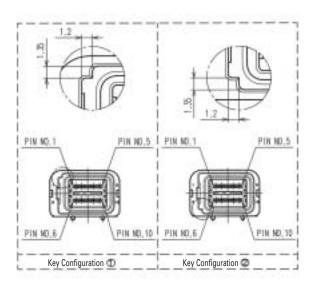


#### Mounted and fully mated connector assemblies

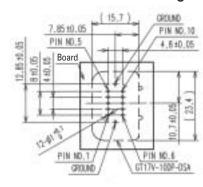


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#### **▶** Recommended PCB Mounting Pattern



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

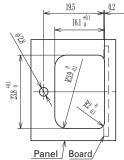
#### ● Printed Circuit Board Type (Shield Reinforced Type)

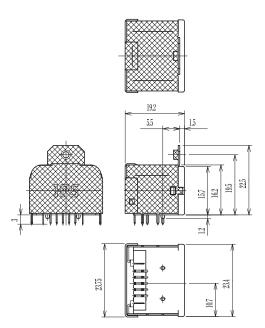


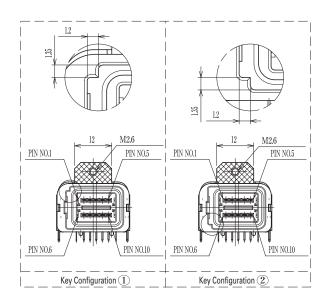


GT17V-10DP-DS-SB GT17VA-10DP-DS-SB

## 

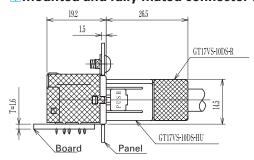


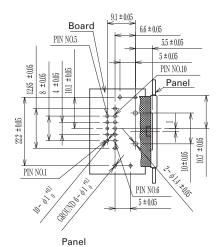




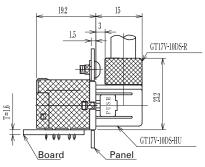
#### 

#### Mounted and fully mated connector assemblies





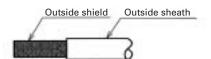
#### Mounted and fully mated connector assemblies



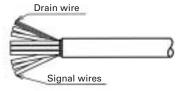
Part Number	CL No.	Material	Color	Key Configurations	Direction of Cable Pull-off	Packaging
GT17V-10DP-DS-SB	767-0069-2	Brass (Center terminal) Copper alloy (Outer terminals)	Light gray	1)	Upward with respect to	1
GT17VA-10DP-DS-SB	767-0070-1	PBT (Housing) Brass (Shield)	Black	2	the mounting surface	1

#### Wiring Method

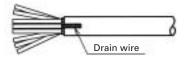
1 Strip the outside sheath.



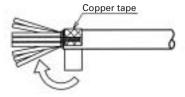
2 Cut the shield and intermediate material to expose the wire and braid.



Bend back the drain wire over the sheath.



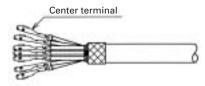
(4) Wrap with copper tape.



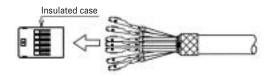
(5) Strip the wire leads.



6 Crimp the center terminals.

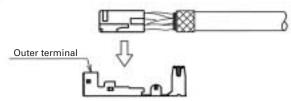


(7) Insert the center terminals into the insulator.



#### **GT17V-10DS-HU Harness Finish**

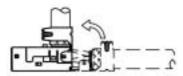
(8) Insert the insulator into the Outer terminal.



(9) Insert the Shield Cover.



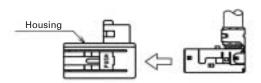
Fold back the Outer terminal.



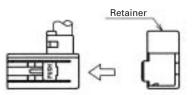
Crimp the Outer terminal.



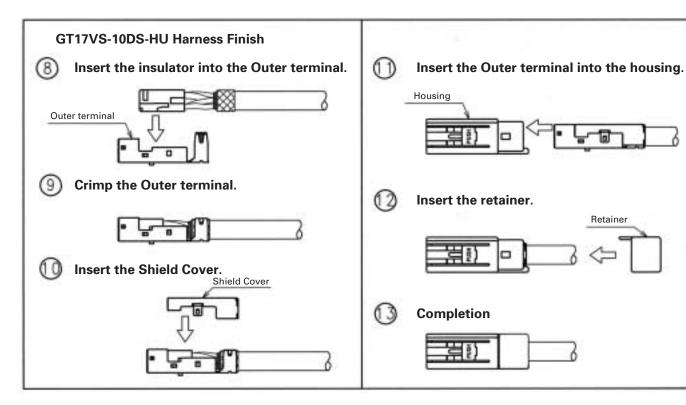
Insert the Outer terminal into the housing.



(1) Insert the retainer.



(4) Completion



#### **◆ Termination Tools**

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

#### **Automatic Crimping Machine**



Part Number CM-105

## **Specifications**Item

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	



<sup>\*</sup> 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.