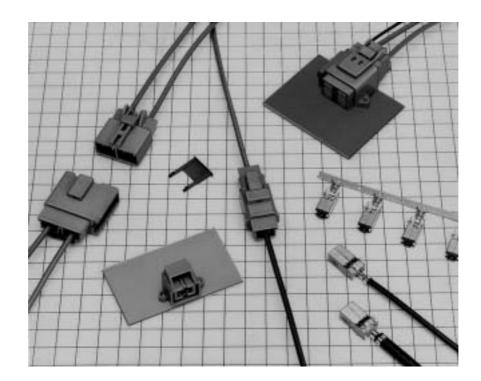
Termination of coaxial cables in automotive, medical and instrumentation applications utilizes a single motion to crimp the center conductor, shield and outer Insulator.

GT1 Series

Connectors for coaxial cables

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

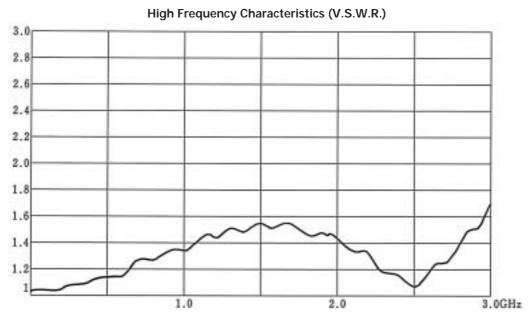


Features

- Cost efficient termination
 - Highly efficient and reliable single motion crimp termination allows high volume production with semi-automatic equipment.
- Lock-release latching system
- Shock / vibration resistant electrical connections
- Verification of the full contact insertion
- Excellent shielding effects.
- Excellent High Frequency Performance

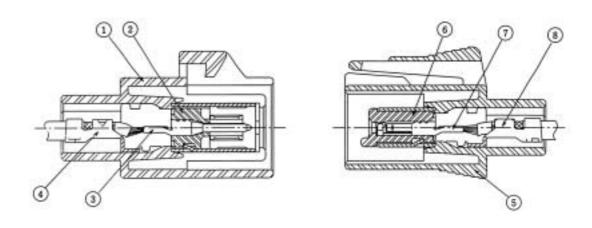
Refer to V.S.W.R. data on the following pages.

► Test Data (Using Semi-rigid Cable)



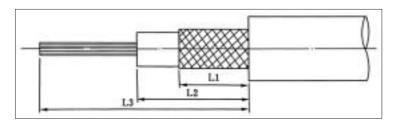
Note: Data taken using fully assemblied and connected GT1-1S-HU and GT1-1P-DSA.

▶ Diagram of GT1 In-line Type Structure



	D 1 N 1	B	N 1 11 1	NA.1. 1.1	Et al.
	Part Number	Part	Number Used	Material	Finish
1	GT1-1P-HU	Housing	1	PA(UL94V-0)	
2		Insulator	1	PBT(UL94V-0)	
3	GT1-1P-2428/1.6C	Crimp terminal	1	Brass	Tin plating
4		Outer terminal	1	Brass	Tin plating
5	GT1-1S-HU	Housing	1	PA(UL94V-0)	
6		Insulator	1	PBT(UL94V-0)	
7	GT1-1S-2428/1.6C	Crimp terminal	1	Phosphor bronze	Tin plating
8		Outer terminal	1	Brass	Tin plating

Termination sequenceCoaxial Cable Terminal Finish Diagram

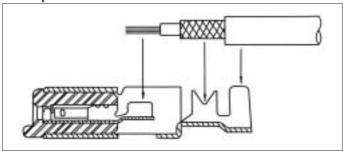


Strip Length

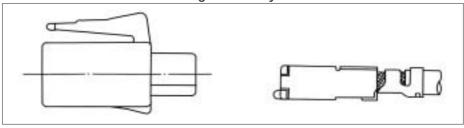
Part Number	CL No.	L1	L2	L3
GT1-1S-2428/1.6C	751-0001-3			
GT1-1P-2428/1.6C	751-0002-6	3.8	6	10.5
GT1-1S-30/1.6C	751-0029-2	3.0	0	10.5
GT1-1P-30/1.6C	751-0030-1			
GT1-1S-2022/2.9C	751-0015-8	4 9	6.8	11.3
GT1-1P-2022/2.9C	751-0014-5	4.9	0.0	11.3

Part Number	CL No.	L1	L2	L3
GT1-1S-30/2.9C	751-0032-7			
GT1-1P-30/2.9C	751-0031-4			
GT1-1S-2428/F5C	751-0033-0	4 9	6.8	11.3
GT1-1P-2428/F5C	751-0034-2	4.9	0.6	11.3
GT1-1S-30/F5C	751-0037-0			
GT1-1P-30/F5C	751-0038-3			

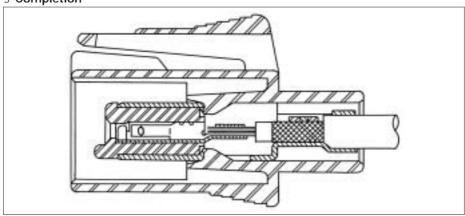
 ${\tt 1}\,$ Crimp the cable to the terminal.



 $\,2\,$ Insert the terminal in the housing until is fully locked.



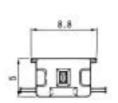
3 Completion

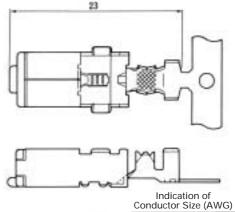


Terminals for coaxial shielded cable

F Connector Terminals







	Part Number	CL No.	Conductor Size (AWG)	Inner Insulator Diameter	Outer Diameter	Packaging
	GT1-1S-2428/1.6C	751-0001-3	#24 to 28 or equivalent	1.5 to 2.0mm	2.6 to 2.4mm	1,200
	GT1-1S-30/1.6C	751-0029-2	#30 or equivalent	1.5 to 2.011111	2.0 (0 3.411111	1,200
	GT1-1S-2022/2.9C	751-0015-8	#20 to 22 or equivalent	2.8 to 3.5mm		
	GT1-1S-30/2.9C	751-0032-7	#30 or equivalent	2.0 10 3.311111		
*	GT1-1S-2428/F5C	751-0033-0	#24 to 28 or equivalent	2.5 to 3.5mm	4.6 to 5.0mm	800
*	GT1-1S-30/F5C	751-0037-0	#30 or equivalent	2.0 (0 3.5111111		
	GT1-1S-2428/F4C	751-0046-1	#24 to 28 or equivalent	4.0mm		

 Item
 Material
 Finish

 Insulator
 PBT
 Color: Dark gray

 Crimp terminal
 Brass
 Tin plating

 Outer terminal
 Brass
 Tin plating

Note: Products marked with an asterisk (*) indicate polyethylene foam insulation.

M Connector Terminals





Indication of Conductor Size (AWG)

24.25

Item	Material	Finish
Insulator	PBT	Color: Dark gray
Crimp terminal	Brass	Tin plating
Outer terminal	Brass	Tin plating

Note: Products marked with an asterisk (*) indicate polyethylene foam insulation.

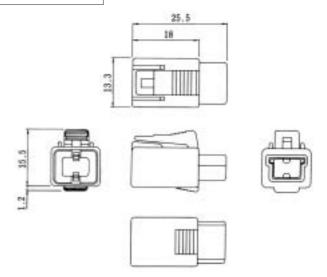
For Single-Conductor coaxial shielded cable

F Connectors

Housing



Part Number	CL No.	Material	Color
GT1-1S-HU	751-0003-9	PA	Light gray

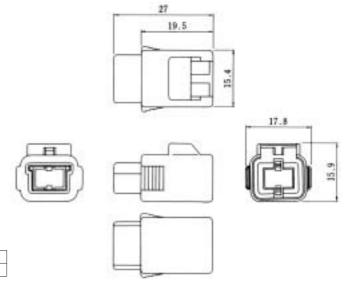


M Connectors

Housing



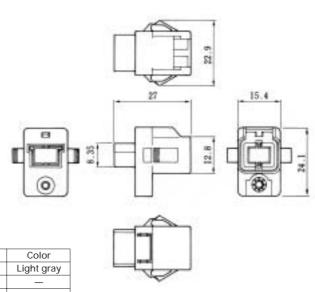
Part Number	CL No.	Material	Color
GT1-1P-HU	751-0004-1	PA	Light gray



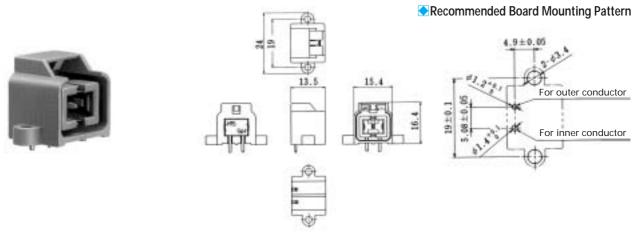
Panel Housing



Part Number	CL No.	Item	Material	Finish	Color
		Housing	PA		Light gray
GT1-1PP-HU	751-0007-0	Ground plate	Brass	Tin plating	
		Press fitting nut	Brass	Nickel	



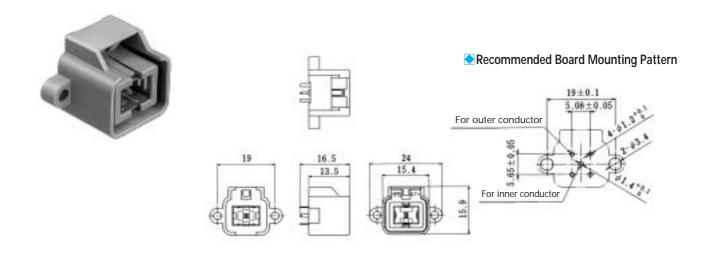
Printed Circuit Type (Right angle)



Part Number	CL No.	Item	Material	Finish	Color
		Housing	PBT		Light gray
		Insulator	PBT		Dark gray
GT1-1P-DS	751-0006-7	0.64X1.1 Terminal	Brass	Tin plating	
		Outer terminal	Brass	Tin plating	_
		Ground terminal	Stainless		_

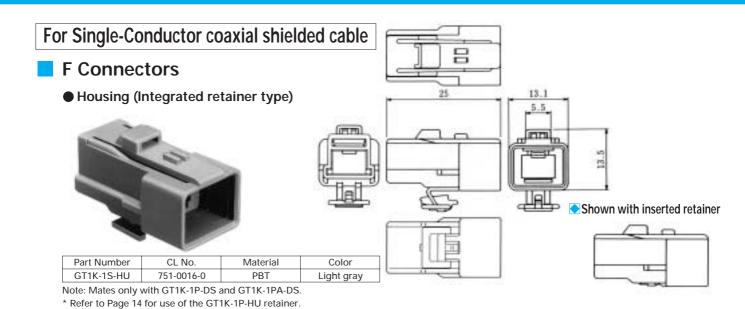
Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 0.16mm)

● Printed Circuit Type (Straight Dip Type)



Part Number	CL No.	Item	Material	Finish	Color
GT1-1P-DSA 75	751 0005 4	Housing	PBT		Light gray
		Insulator	PBT		Dark gray
	751-0005-4	0.64X1.1 Terminal	Brass	Tin plating	_
		Outer terminal	Brass	Tin plating	_

Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 0.16mm)

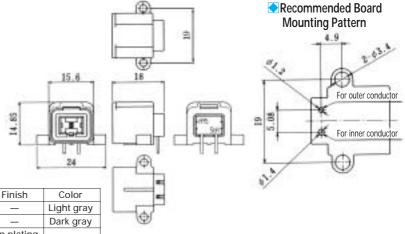




Part Number

Printed Circuit Board Type (Right-angle Dip Top Lock Type)





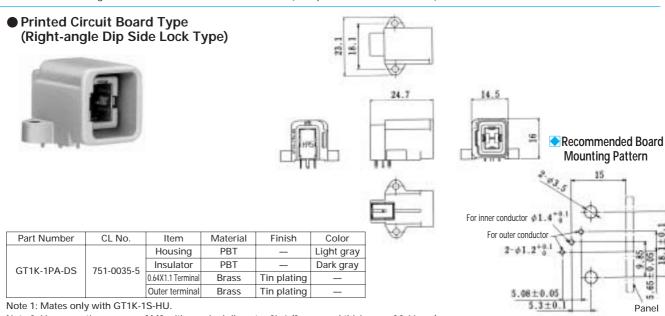
Item

Note 1: Mates only with GT1K-1S-HU.

CL No.

Note 2: Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 0.16mm)

Material



Note 2: Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 0.16mm)

Method of Using the GT1K-1S Retainer

a. Insert so that the terminal locking tab is inserted between the top surface of the terminal and the housing. b. Push in while changing the angle of the retainer until the front surface comes to a stop. c. Press the rear portion of the retainer and snap it into the locked position. d. If locking is not complete, press the rear portion of the retainer again while pulling it backward.

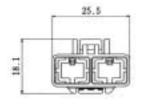
^{*} Check that all locations are locked.

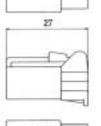
Two-position type-Each Single-Conductor coaxial Cable

F Connectors

Housing









Part Number	CL Number	Material	Color
GT1-2S-HU	751-0011-7		Light gray
GT1-2S-HU(20)	751-0011-7-20	PBT	Orange
GT1-2S-HU(21)	751-0011-7-21		Blue

Note: Retainer is optional.

Retainer (Used with GT1-2S-HU)

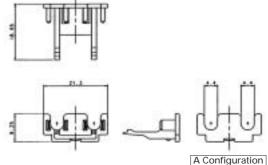


Part Number

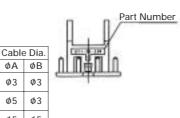
GT1-2S-33R

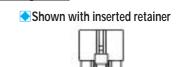
GT1-2S-53R

GT1-2S-55R 751-0044-6



18.15





Note 1: This item should be mounted to the GT1-2PP-HU housing after the insertion of terminals.

Color

White

Dark gray

Light blue

φA

φз

Material

PBT

Note 2: Retainer is optional.

A Configuration

Retainer (used with GT1-2S-HU and GT1-2PP-HU)

CL No.

751-0045-9

751-0043-3



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GT1-2S-HU Shown with temporarily inserted retainer



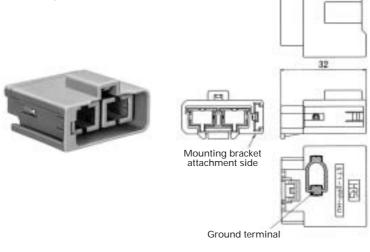
Shown with temporarily inserted retainer

	35.55
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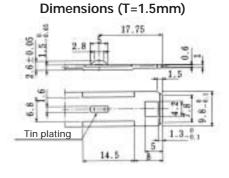
Part Number	CL Number	Material	Color
GT1-2P/S-R	751-0013-2	PBT	Dark grav

M Connectors

Housing







Part Number	CL No.	Color	Remarks
GT1-2PP-HU	751-0010-4	Light gray	With ground terminal
GT1-2PP-HU(10)	751-0010-4-10	Light gray	Without ground terminal
GT1-2PP-HU(20)	751-0010-4-20	Orange	With ground terminal
GT1-2PP-HU(21)	751-0010-4-21	Blue	With ground terminal
GT1-2PP-HU(40)	751-0010-4-40	Orange	Without ground terminal
GT1-2PP-HU(41)	751-0010-4-41	Blue	Without ground terminal

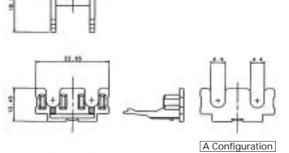
Note: Retainer is optional.

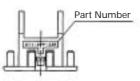
Item Material Finish Housing PBT Color: Light gray Color: Orange Color: Blue Ground terminal Brass Tin plating

30.7

Retainers (Used with GT1-2PP-HU)







A Configuration	Part Number	CL No.	Color	Cable Dia.	
A Corniguration	Part Number	CL NO.	o. Color		ØΒ
្រំស្	GT1-2PP-33R	751-0042-0	White	Ø 3	Ø 3
M	GT1-2PP-53R	751-0040-5	Dark gray	ø 5	ø 5
MA	GT1-2PP-55R	751-0041-8	Light blue	ø 5	ø 3

Material Color White PBT Dark gray Light blue

⇒ Bracket Mounting portion

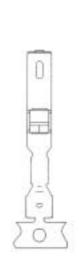
Shown with inserted retainer

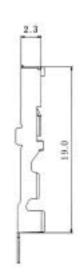
Note 1: This item should be mounted to the GT1-2PP-HU housing after the insertion of terminals. Note 2: Retainer is optional.

Power Supply Terminals

F Connector Terminals

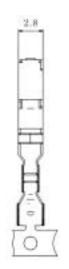






Finish

Tin plating



Part Number	CL No.	Conductor Size (AWG)	Inner Insulator Diameter	Dimension A	Packaging	Material	Finish
GT7-2022SCF	757-0001-1	#20 to 22	1.4 to 2.4mm	19	5,000	Copper allow	Tin plating
GT7A-2022SCF	757-0003-7	#20 to 22	2.6 to 3.1mm	19	3,000	соррег апоу	riii piatiiig

Note 1: Sold by the reel. (See above table for number of Packaging.) Note 2: This component is used only with applicable HRS housings.

M Connector Terminals





Part Number	CL No.	Conductor Size (AWG)	Inner Insulator Diameter	Packaging	Material	Finish
GT7-1618PCF	* Reserved for product expansion	#16 to 18	1.8 to 2.7mm	3,000		
GT7-2022PCF	757-0002-4	#20 to 22	1.4 to 2.4mm	5,000	Brass	Tin plating
GT7A-2022PCF	757-0004-0	#20 to 22	2.6 to 3.1mm	3,000		

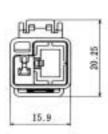
Note 1: Sold by the reel. (See above table for number of Packaging.) Note 2: This component is used only with applicable HRS housings.

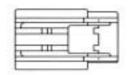
Combination Type (One Single-Conductor Coaxial Cables + One Power contact)

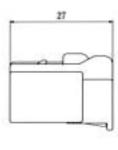
F Connectors

Housing

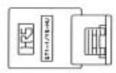












Part Number	CL No.	Material	Color
GT1-1/1S-HU	751-0026-4	PBT	Light gray

Note: Retainer is optional.

• Retainer (Used with GT1-1/1S-HU)





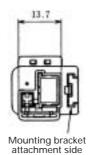
Part Number	CL Number	Material	Color
GT1-1/1S-R	751-0028-0	PBT	Dark gray

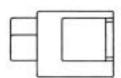


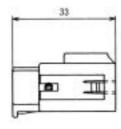
M Connectors

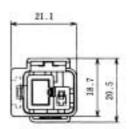
Housing

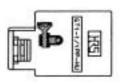




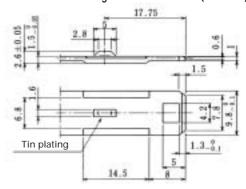








Recommended Mounting Bracket Dimensions (T=1.5mm)



Part Number	CL No.	Mounting bracket attachment side	Remarks
GT1-1/1PP-HU	751-0025-1	1.5mm	With ground terminal
GT1-1/1PP-HU(10)	751-0025-1-10	1.5mm	Without ground terminal
GT1-1/1PP-HU(11)	751-0025-1-11	1.0mm	With ground terminal

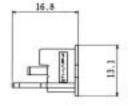
Note: Used with separate retainer (GT1-1/1PP-R).

Item Material Finish Housing PBT Light gray Ground terminal Phosphor bronze Tin plating

● Retainer (exclusively for GT1-1/1PP-HU)









Part Number	CL Number	Material	Color
GT1-1/1PP-R	751-0027-7	PBT	Dark gray

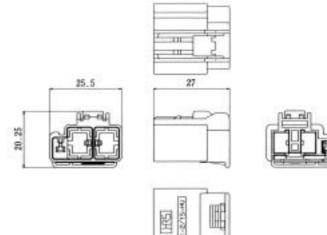


Combination Type (Two Single-Conductor Coaxial Cables + One Power contact)

F Connectors

Housing

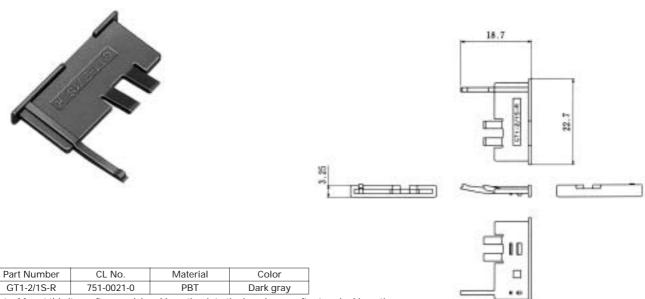


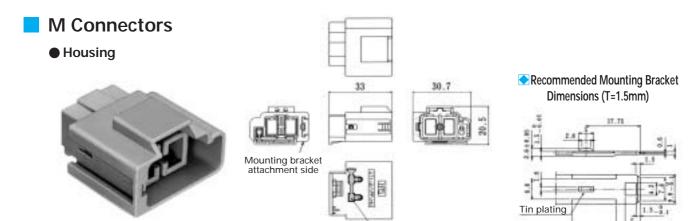


GT1-2/1S-HU	751-0019-9	PBT	Light gray		
Part Number	CL No.	Material	Color		

Note1: Mates only with GT1-2/1PP-DS and GT1-2/1PP-HU. Note2: Used with separate retainer (GT1-2/1S-R).

● Retainer (used with GT1-2S-HU and GT1-2PP-HU)





			Oround terminar
Part Number	CL No.	Mounting bracket attachment side	Remarks
GT1-2/1PP-HU	751-0018-6	1.5mm	With ground terminal
GT1-2/1PP-HU(10)	751-0018-6-10	1.5mm	Without ground terminal
GT1-2/1PP-HU(11)	751-0018-6-11	1.0mm	With ground terminal

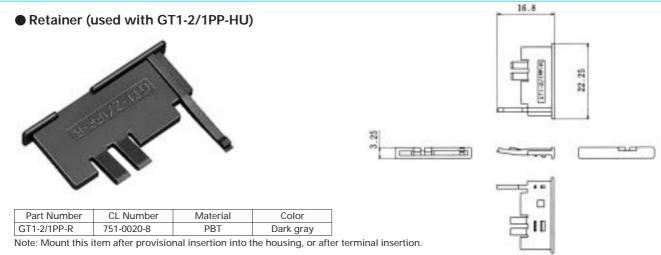
 Item
 Material
 Finish

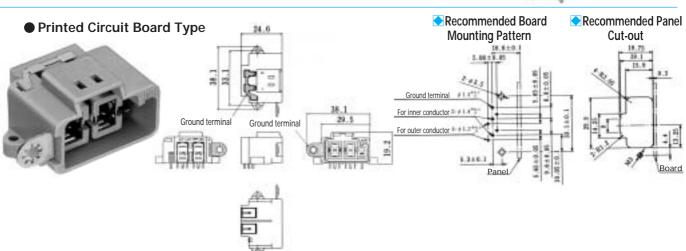
 Housing
 PBT
 Light gray

 Ground terminal
 Phosphor bronze
 Tin plating

Note1: Mates only with GT1-2/1S-HU.

Note2: Used with separate retainer (GT1-2/1PP-R).





Part Number	CL No.	Part	Material	Finish	Color
		Housing	PBT		Light gray
		Ground terminal	Phosphor bronze	Tin plating	
		Ground plate	Brass	Tin plating	_
GT1-2/1PP-DS	751-0022-3	Tub terminal for DS 070	Brass	Tin plating	
		0.64X1.1 Terminal	Brass	Tin plating	_
		Insulator	PBT		Dark gray
			Brass	Tin plating	_

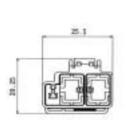
Note1: Mates only with GT1-2/1PP-DS and GT1-2/1PP-HU.

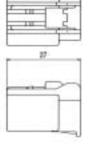
Products Listed Below are of the Combination Type (Two Terminals for Use with Single-Conductor Shielded Cable + One Power Supply Terminal) with Key Positions that Differ from the Products Listed on Previous Pages

F Connectors

Housing







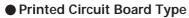


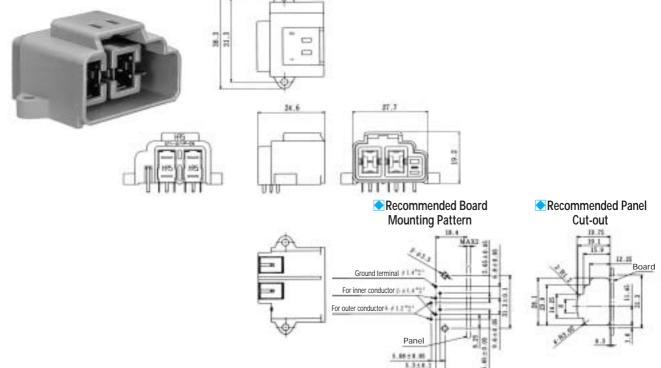
Part Number	CL No.	Material	Color
GT1-2/1S-HU(A)	751-0024-9	PBT	Light gray
GT1-2/1S-HU(A)(21)	751-0024-9-21	PBT	Blue

Note1: Mates only with GT1-2/1P-DS. Note2: Used with separate retainer.



M Connector





			Item	Material	Finish	Color
		Housing		PBT	_	Light gray
			nousing	PDI	_	Blue
			0.64X1.1 Terminal	Brass	Tin plating	
Part Number	CL No.	Color	Insulator	PBT		Dark gray
ST1-2/1P-DS	751-0023-6	Light gray	Outer terminal	Brass	Tin plating	
ST1-2/1P-DS(21)	751-0023-6-21	Blue	Tub terminal for DS 070	Brass	Tin plating	

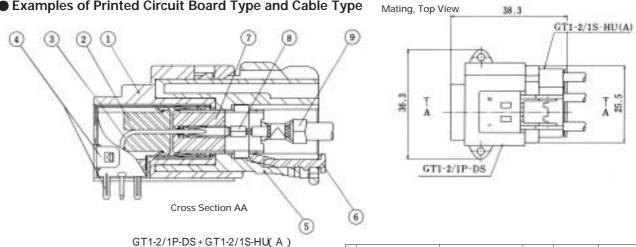
Note1: Mates only with GT1-2/1S-HU(A).

Note 2: Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 1.6mm)

G

Mating, Cross-Sectional View

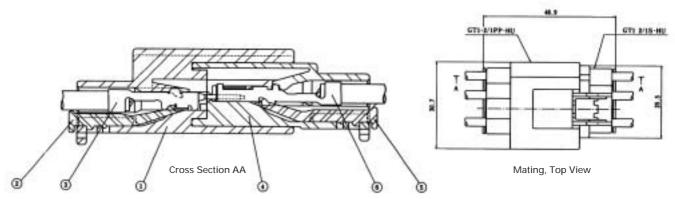




	Part Number	Part	Number Used	Material	Finish
1		Housing	1	PBT	UL94V-0
2	GT1-2/1P-DS	Insulator	2	PBT	UL94V-0
3	G11-2/1P-D3	0.64 X 1.1 terminal	2	Brass	Tin plating
4		Outer terminal	2	Brass	Tin plating
5	GT1-2/1S-HU(A)	Housing	1	PBT	UL94V-0
6	GT1-2/1S-HU	Retainer	1	PBT	UL94V-0
7		Insulator	2	PBT	UL94V-0
8	GT1-1S-2428/1.6C	Crimp terminal	2	Phosphor bronze	Tin plating
9		Outer terminal	2	Brass	Tin plating

● Example of Cable-to-Cable Type

The coupled, cross-sectional view of the GT7 terminals of the GT1-2/1 Series appears below.



Currently, the GT7 Series terminals are used for the power supply of the GT1 Series combination type.

Part Number	Terminal	
GT1-1/1S-HU	CT7 2022CCF	
GT1-2/1S-HU	GT7-2022SCF、GT7A-2022SCF	
GT1-1/1PP-HU	CT7 2022DOF	
GT1-2/1PP-HU	GT7-2022PCF、GT7A-2022PCF	

	Part Number
1	GT1-2/1PP-HU
2	GT1-2/1PP-R
3	GT7-2022PCF
4	GT1-2/1S-HU
5	GT1-2/1S-R
6	GT7-2022SCF

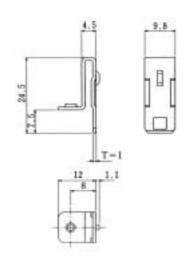
Accessories

Brackets (for M Connector Housing)

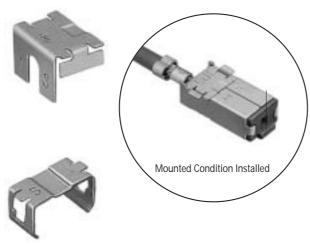


Part Number	CL No.	Material	Finish
GT-BK	751-0039-6	SPCC	Tin plating
GT-BK(01)	751-0039-6-01	3500	Zinc plating

Note 1: This product can be attached to GT1-1PP-HU, GT1-1/1PP-HU, and GT1-2/1PP-HU. Note 2: Please use the tin plated item when making a ground connection.

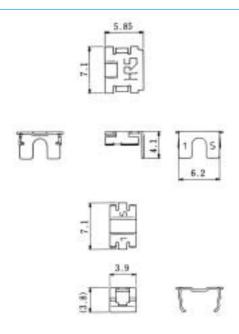


● F Terminal Shield Cover

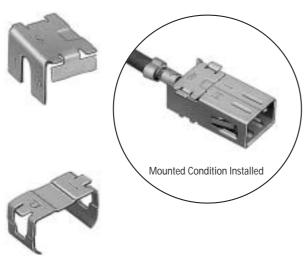


	Part Number	CL No.	Item	Material	Finish
ĺ	GT1-1S-1.6CSB	6CSB 751-0009-5	Top Shield Cover	SPCC	Tin plating
		751-0009-5	Bottom Shield Cover	3500	Zinc plating

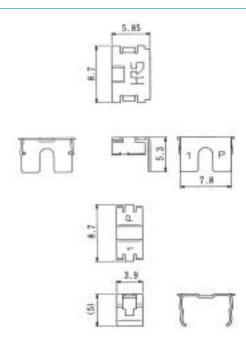
Note: This product cannot be used with GT1K-1S-HU.



M Terminal Shield Plate



Part Number	CL No.	Item	Material	Finish
GT1-1P-1.6CSB	751-0008-2	Top Shield Cover	Droce	Tip plating
G11-1P-1.0C3B	/31-0006-2	Bottom Shield Cover	Brass Tin pla	Tin plating



◆Termination Tools

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

Automatic Crimping Machine



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 per day	

Part Number CM-105



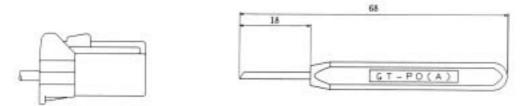
Hand Tool



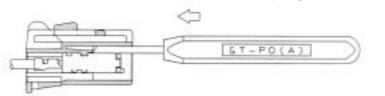
^{*}Crimp height setting tables are available for each cable type. Please contact your nearest Hirose Electric account representative. Different cables will require different crimp height settings.

▼Terminal Extraction Tool

1) For one lance

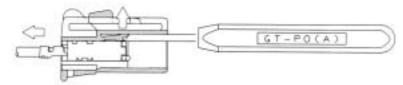


1 Insert the extraction tool from the coupling end.



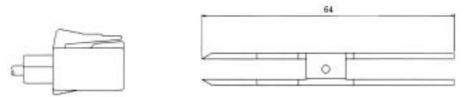


2 Push the lance upward and pull out the terminal.

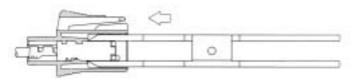


Part Number	CL No.	Used with connectors		
GT-PO(A)	780-0006-2	GT1K-1S-HU GT1-2S-HU GT1-2PP-HU GT1-1/1S-HU GT1-1/1PP-HU GT1-2/1S-HU GT1-2/1PP-HU GT1-2/1S-HU(A)		

2) For two lances

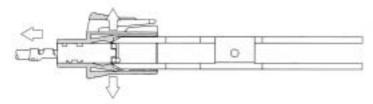


1 Insert the extraction tool from the coupling end.





2 Push and separate both lances and pull out the terminal.



Part Number	CL No.	Used with connectors	
GT1-C-PO	902-5020-1	GT1-1S-HU GT1-1P-HU GT1-1PP-I	HU