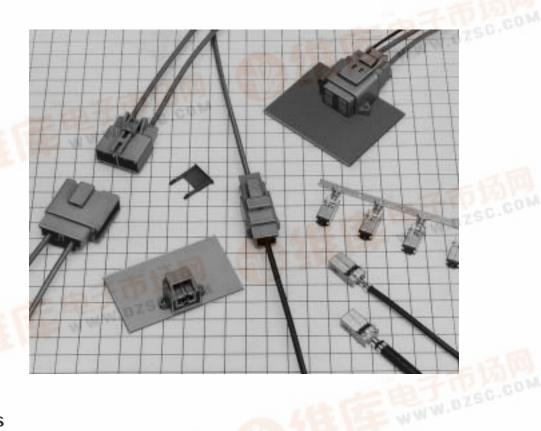
Termination of coaxial cables in automotive, medical and instrumentation applications utilizes a single motion to crimp the center conductor, shield and outer Insulator.

GT1 Series

Connectors for coaxial cables

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



Features

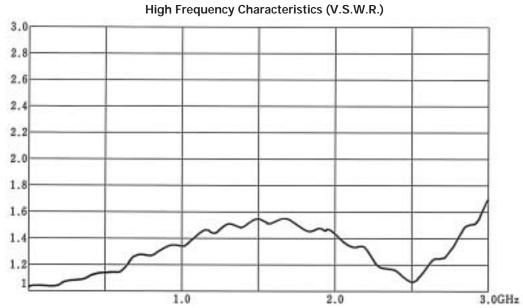
- Cost efficient termination
 - Highly efficient and reliable single motion crimp termination allows high volume production with semiautomatic equipment.
- Lock-release latching system
- Shock / vibration resistant electrical connections
- Verification of the full contact insertion
- Excellent shielding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

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



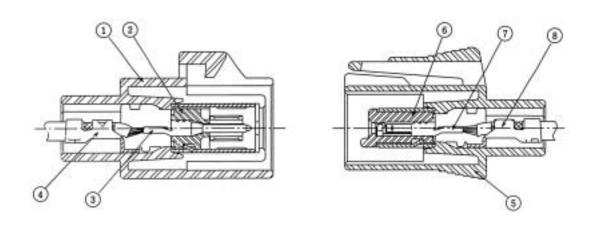
WC.

▼Test Data (Using Semi-rigid Cable)



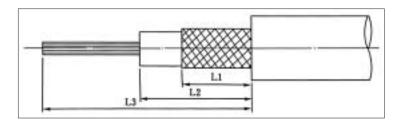
Note: Data taken using fully assemblied and connected GT1-1S-HU and GT1-1P-DSA.

▶ Diagram of GT1 In-line Type Structure



	Part Number	Part	Number Used	Material	Finish
1	GT1-1P-HU	Housing	1	PA(UL94V-0)	
2		Insulator		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

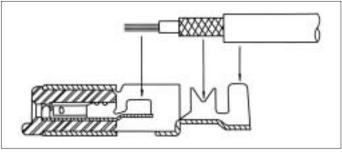


Strip Length

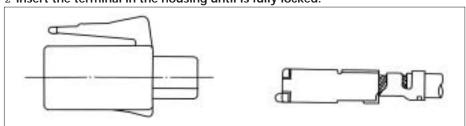
. 0				
Part Number	CL No.	L1	L2	L3
GT1-1S-2428/1.6C	751-0001-3			
GT1-1P-2428/1.6C	751-0002-6	3.8	6	10.5
GT1-1S-30/1.6C	751-0029-2	3.8 6		10.5
GT1-1P-30/1.6C	751-0030-1			
GT1-1S-2022/2.9C	751-0015-8	4.0	4.0	11.3
GT1-1P-2022/2.9C	751-0014-5	4.9 6.8		11.3

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			

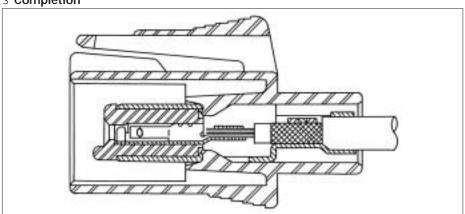
1 Crimp the cable to the terminal.



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



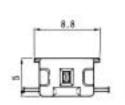
3 Completion

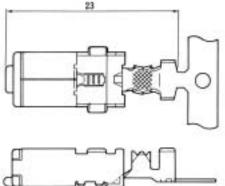


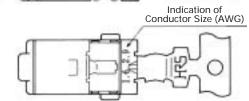
Terminals for coaxial shielded cable

F Connector Terminals









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

	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 3.4mm	1,200
	GT1-1S-30/1.6C	751-0029-2	#30 or equivalent	1.5 to 2.011111	2.0 (0 3.4111111	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 (0 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	2.5 (0 3.511111		
	GT1-1S-2428/F4C	751-0046-1	#24 to 28 or equivalent	4.0mm		

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

M Connector Terminals



CL No.

GT1-1P-2428/1.6C 751-0002-6 #24 to 28 or equivalent

751-0030-1

751-0031-4

GT1-1P-2428/F4C 751-0047-4 #24 to 28 or equivalent

Part Number

GT1-1P-30/1.6C

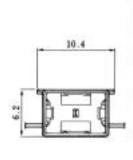
GT1-1P-30/2.9C

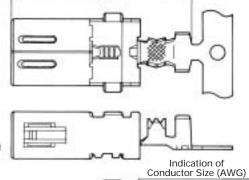
GT1-1P-2428/F5C

GT1-1P-30/F5C

GT1-1P-2022/2.9C 751-0014-5







24.25

Packaging	G
800	80370
600	

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

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

Conductor Size (AWG)

#20 to 22 or equivalent

#30 or equivalent

#30 or equivalent

751-0034-2 #24 to 28 or equivalent

751-0038-3 #30 or equivalent

Inner Insulator Diameter

1.5 to 2.0mm

2.8 to 3.5mm

2.5 to 3.5mm

4.0mm

Outer Diameter

2.6 to 3.4mm

4.6 to 5.0mm

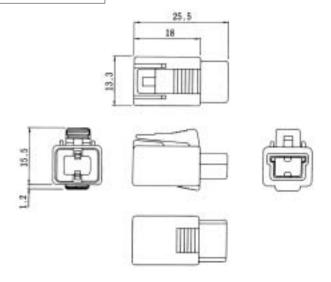
For Single-Conductor coaxial shielded cable

F Connectors

Housing



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

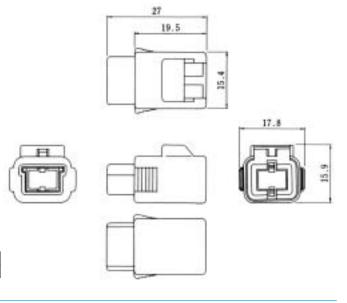


M Connectors

Housing



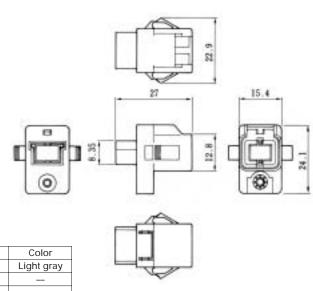
Part Number	CL No.	Material	Color
GT1-1P-HU	751-0004-1	PA	Light gray



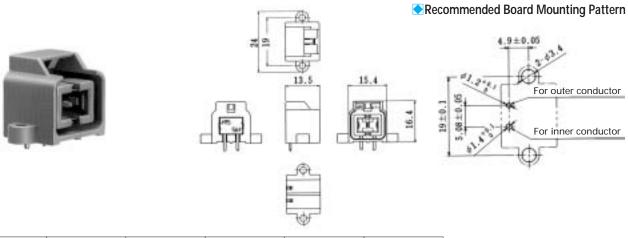
Panel Housing



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	



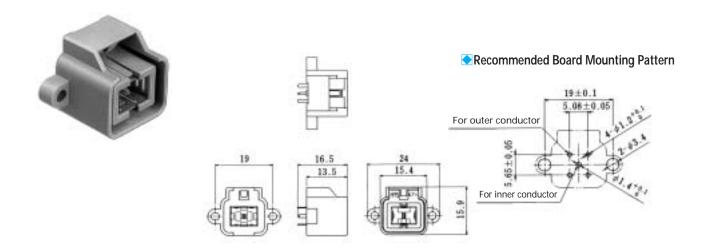
Printed Circuit Type (Right angle)



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		

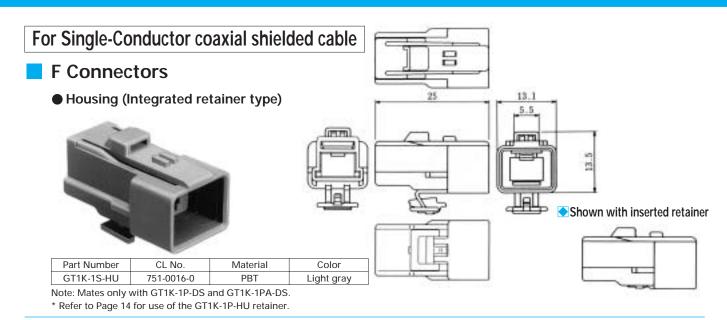
Use mounting screws of M3 with nominal diameter 3L-6 (for a panel thickness of 0.16mm)

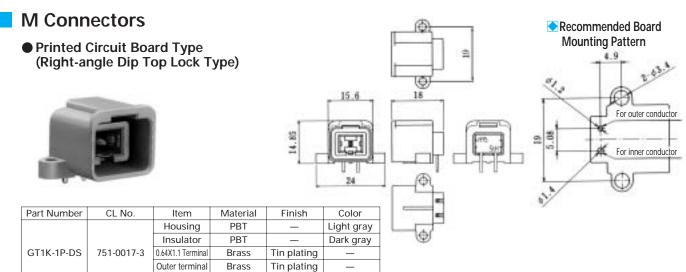
● Printed Circuit Type (Straight Dip Type)



Part Number	CL No.	Item	Material	Finish	Color
	751-0005-4	Housing	PBT		Light gray
GT1-1P-DSA		Insulator	PBT		Dark gray
GTI-IP-DSA		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)





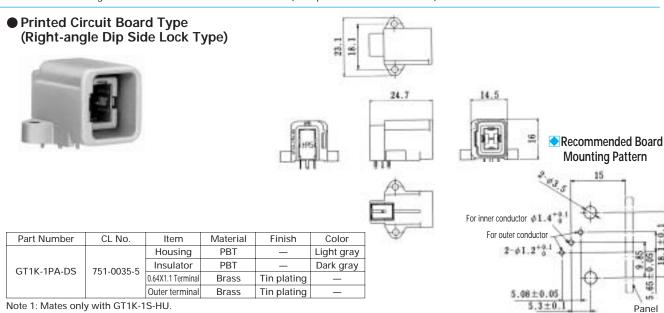
Note 1: Mates only with GT1K-1S-HU.

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

Stainless

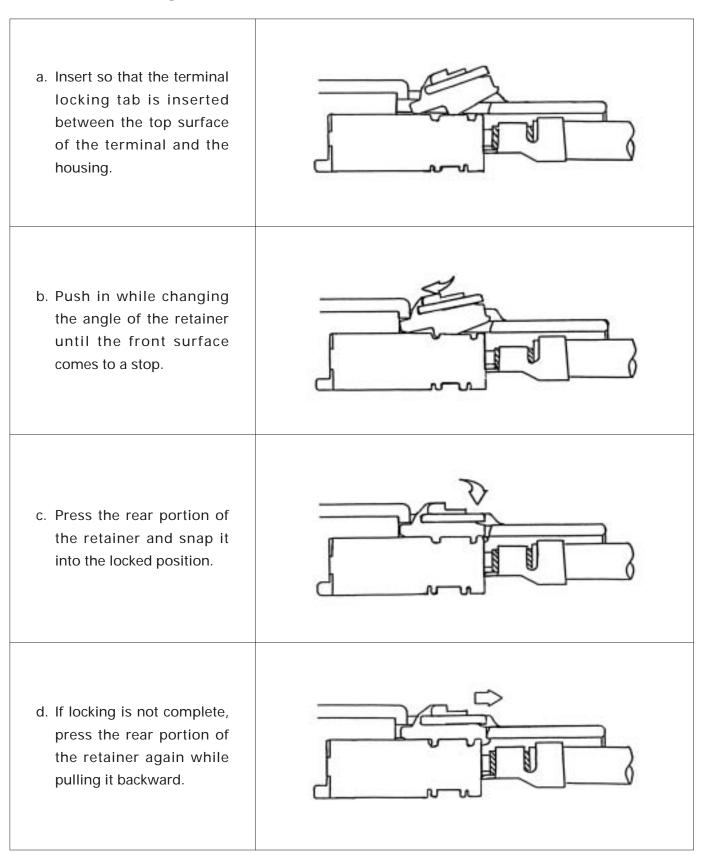
Cover

Nickel



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



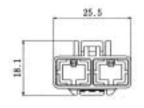
^{*} Check that all locations are locked.

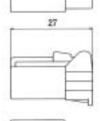
Two-position type-Each Single-Conductor coaxial Cable

F Connectors

Housing







П

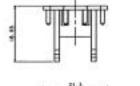


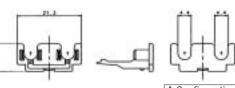
Part Number	CL Number	Material	Color
GT1-2S-HU	751-0011-7		Light gray
GT1-2S-HU(20)	751-0011-7-20	PBT	Orange
GT1-2S-HU(21)	751-0011-7-21		Blue

Note: Retainer is optional.

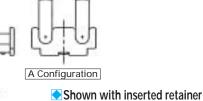
Retainer (Used with GT1-2S-HU)







Part Number



A Configuration	Part Number	CL No.	Material	Color	Cable Dia.	
A Configuration	Part Number	CL NO.	iviateriai	COIOI	φA	φB
(A)	GT1-2S-33R	751-0045-9		White	Ф3	Ф3
វែកិសិ	GT1-2S-53R	751-0043-3	PBT	Dark gray	ø 5	ø 3
57	GT1-2S-55R	751-0044-6		Light blue	ø 5	ø 5

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

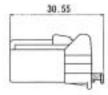
• Retainer (used with GT1-2S-HU and GT1-2PP-HU)







GT1-2S-HU Shown with temporarily inserted retainer



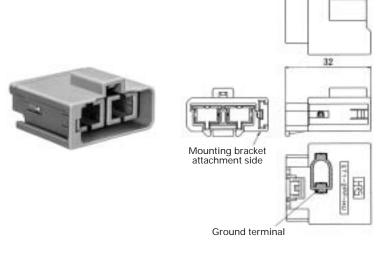
● GT1-2PP-HU
Shown with temporarily inserted retainer

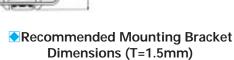
35.55

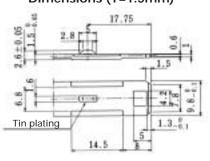
Part Number	CL Number	Material	Color
GT1-2P/S-R	751-0013-2	PBT	Dark gray

M Connectors









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

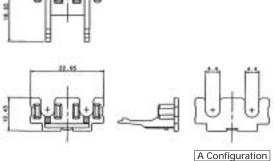
Item	Material	Finish
		Color: Light gray
Housing	PBT	Color: Orange
		Color: Blue
Ground terminal	Brass	Tin plating

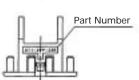
30.7

Note: Retainer is optional.

Retainers (Used with GT1-2PP-HU)



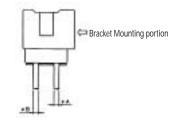




A Configuration	Part Number	CL No.	Color	Cable Dia	
A Configuration	Part Number	CL NO.	COIOI	φA	φB
្រីស្	GT1-2PP-33R	751-0042-0	White	ø 3	ø 3
M	GT1-2PP-53R	751-0040-5	Dark gray	ø 5	ø5
S.	GT1-2PP-55R	751-0041-8	Light blue	ø5	ø 3

Material Color
White
PBT Dark gray
Light blue





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

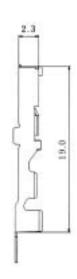
Note 2: Retainer is optional.

Power Supply Terminals

F Connector Terminals









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 alloy	Tin plating
GT7A-2022SCF	757-0003-7	#20 to 22	2.6 to 3.1mm	19	3,000	Copper alloy	Till platting

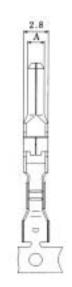
Note 1: Sold by the reel. (See above table for number of Packaging.) Note 2: This component is used only with applicable HRS housings.

M Connector Terminals





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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	Connor allow	Tip ploting
GT7A-2022SCF	757-0003-7	#20 to 22	2.6 to 3.1mm	19	3,000	Copper alloy	Tin plating

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		

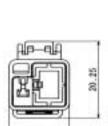
Note 1: Sold by the reel. (See above table for number of Packaging.) Note 2: This component is used only with applicable HRS housings.

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

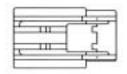
F Connectors

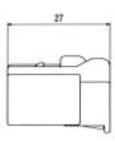
Housing



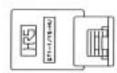


15.9







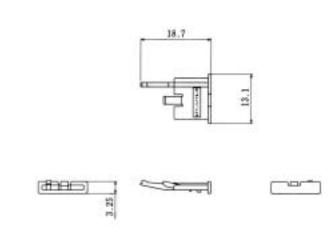


Part Number	CL No.	Material	Color
GT1-1/1S-HU	751-0026-4	PBT	Light gray

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

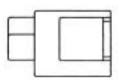


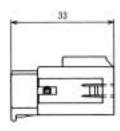
M Connectors

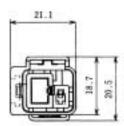
Housing

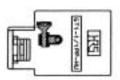




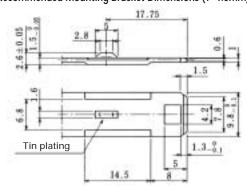








Recommended Mounting Bracket Dimensions (T=1.5mm)



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

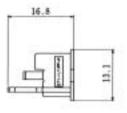
Note: Used with separate retainer (GT1-1/1PP-R).

Material	Finish
PBT	Light gray
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

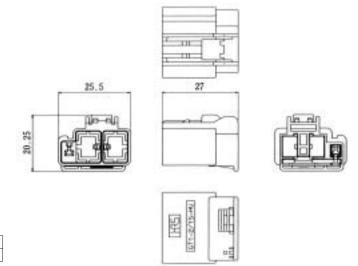


Combination Type (Two Single-Conductor Coaxial Cables + One Power contact)

F Connectors

Housing



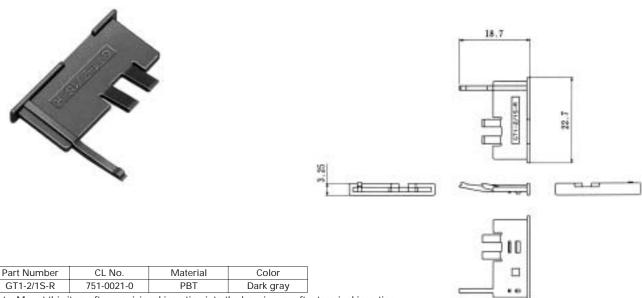


Part Number	CL No.	Material	Color
GT1-2/1S-HU	751-0019-9	PBT	Light gray

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)



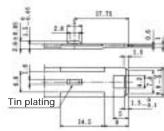






33

Recommended Mounting Bracket Dimensions (T=1.5mm)



			and the same of th
			Ground termina
Part Number	CL No.	Mounting bracket attachment side	Remarks
T1-2/1PP-HU	751-0018-6	1.5mm	With ground terminal

Mounting bracket attachment side

 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

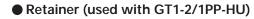
 Item
 Material
 Finish

 Housing
 PBT
 Light gray

 Ground terminal
 Phosphor bronze
 Tin plating

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

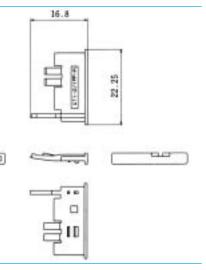
Note2: Used with separate retainer (GT1-2/1PP-R).

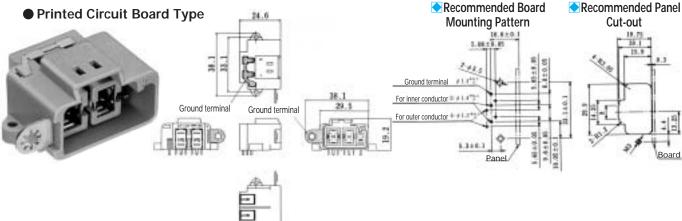




Part Number	CL Number	Material	Color
GT1-2/1PP-R	751-0020-8	PBT	Dark gray

Note: Mount this item after provisional insertion into the housing, or after terminal insertion.





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

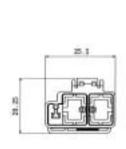
Note1: Mates only with GT1-2/1PP-DS and GT1-2/1PP-HU.

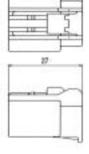
Products Listed Below are of the Combination Type (Two Terminals for Use with Single-Conductor Shielded Cable + One Power Supply Terminal) with Key Positions that Differ from the Products Listed on Previous Pages

F Connectors

Housing







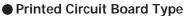




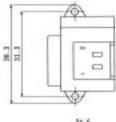
Part Number	CL No.	Material	Color
GT1-2/1S-HU(A)	751-0024-9	PBT	Light gray
GT1-2/1S-HU(A)(21)	751-0024-9-21	PBT	Blue

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

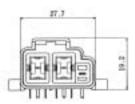
M Connector

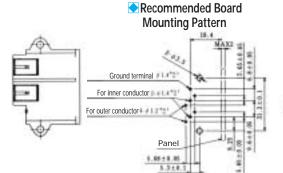


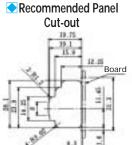












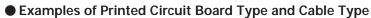
Part Number	CL No.	Color
GT1-2/1P-DS	751-0023-6	Light gray
GT1-2/1P-DS(21)	751-0023-6-21	Blue

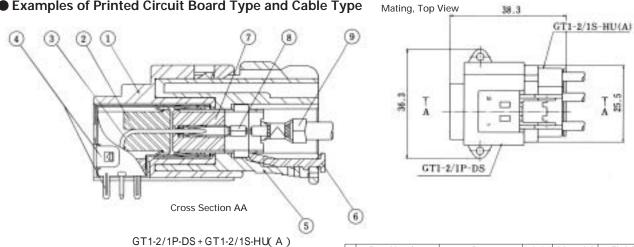
Note1:	Mates	only \	with	GT1-2/1	S-HU(A).	

Item	Material	Finish	Color
Housing	PBT		Light gray
Housing	PDI		Blue
0.64X1.1 Terminal	Brass	Tin plating	
Insulator	PBT		Dark gray
Outer terminal	Brass	Tin plating	
Tub terminal for DS 070	Brass	Tin plating	

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

Mating, Cross-Sectional View

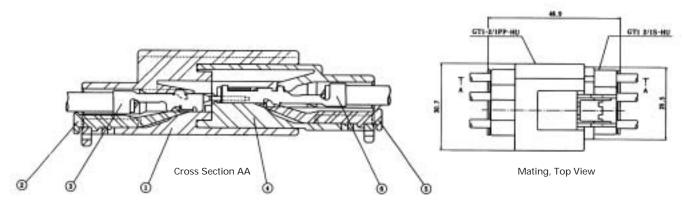




	Part Number	Part	Number Used	Material	Finish
1		Housing	1	PBT	UL94V-0
2	GT1-2/1P-DS	Insulator	2	PBT	UL94V-0
3 611-2/19-05		0.64 X 1.1 terminal	2	Brass	Tin plating
4		Outer terminal	2	Brass	Tin plating
5	GT1-2/1S-HU(A)	Housing	1	PBT	UL94V-0
6	GT1-2/1S-HU	Retainer	1	PBT	UL94V-0
7		Insulator	2	PBT	UL94V-0
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	GT7-2022SCF、GT7A-2022SCF	
GT1-2/1S-HU	G17-2022SCF、G17A-2022SCF	
GT1-1/1PP-HU	CT7 2022DCF	
GT1-2/1PP-HU	GT7-2022PCF、GT7A-2022PCF	

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

Accessories

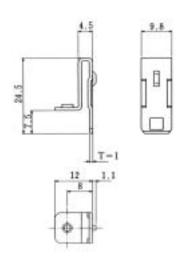
Brackets (for M Connector Housing)



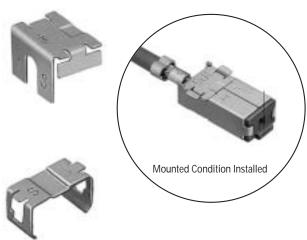
Part Number	CL No.	Material	Finish
GT-BK	751-0039-6	SPCC	Tin plating
GT-BK(01)	751-0039-6-01	3500	Zinc plating

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.

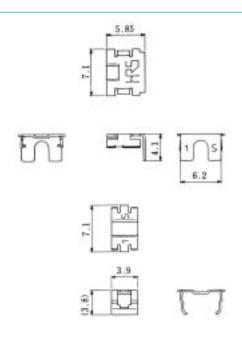


F Terminal Shield Cover

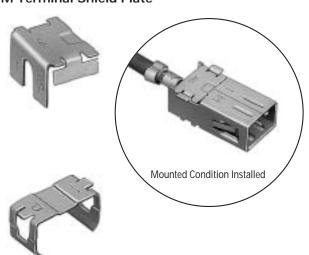


Part Number	CL No.	Item	Material	Finish
GT1-1S-1.6CSB	751-0009-5	Top Shield Cover	SPCC	Tin plating
		Bottom Shield Cover		Zinc plating

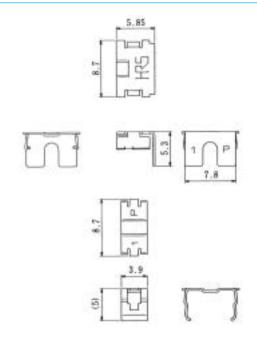
Note: This product cannot be used with GT1K-1S-HU.



M Terminal Shield Plate



Part Number	CL No.	Item	Material	Finish
GT1-1P-1.6CSB	751-0008-2	Top Shield Cover	Rrace	Tin plating
		Bottom Shield Cover		



◆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



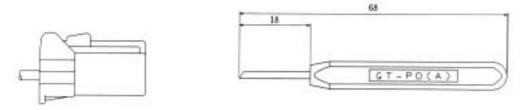
Hand Tool



^{*}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

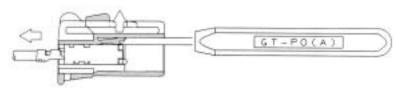
1) For one lance



1 Insert the extraction tool from the coupling end.

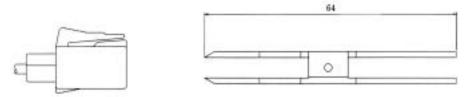


2 Push the lance upward and pull out the terminal.

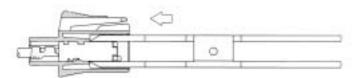


Part Number	CL No.	Used with connectors		
GT-PO(A)	780-0006-2	GT1K-1S-HU GT1-2S-HU GT1-2PP-HU GT1-1/1S-HU GT1-1/1PP-HU GT1-2/1S-HU GT1-2/1PP-HU GT1-2/1S-HU(A)		

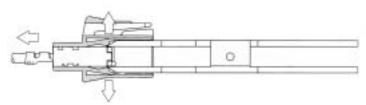
2) For two lances



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	J GT1-1PP-HU	