Coaxial cable connection of Antennas, Sensors, and Communication Trunk Lines
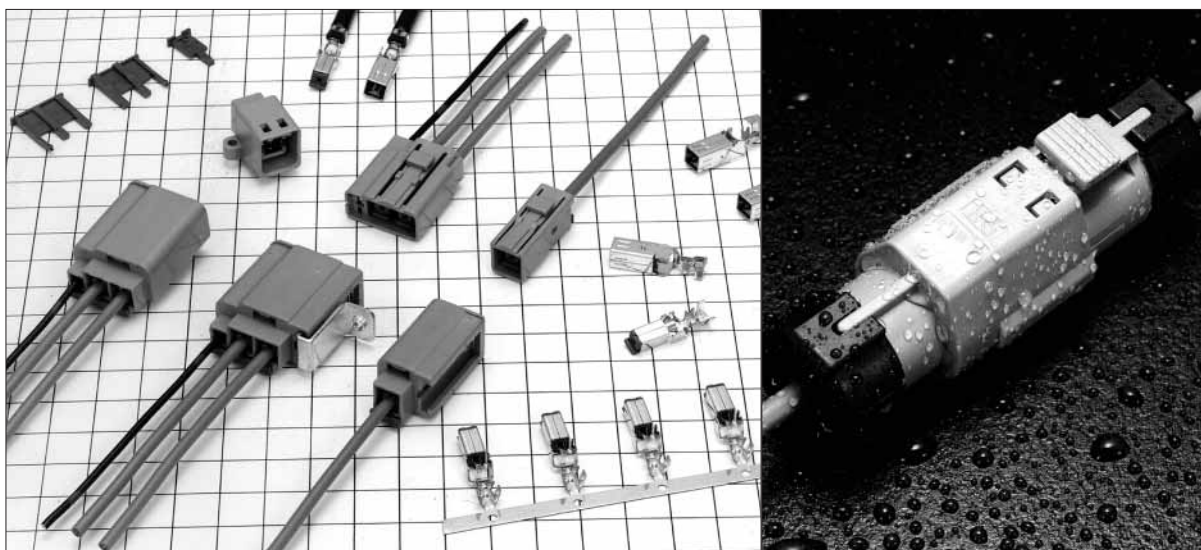
SAE/USCAR-19

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

GT5 Series

— Connectors for coaxial shielded cables —

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

■ Features

● USCAR Standard titled "Square Outer Conductor (SAE/USCAR-19)" excludes Water Proof type (GT5W)
● **Cost efficient termination**
　Highly efficient and reliable single motion "Twin Crimp™" termination allows high volume production with semi-automatic equipment.
● **Space-saving Design**
● **Lock-release latching system**
● **Shock / vibration resistant electrical connections**
● **Verification of the full contact insertion**
● **Color and polarizing variations**
● **Excellent High Frequency Performance**
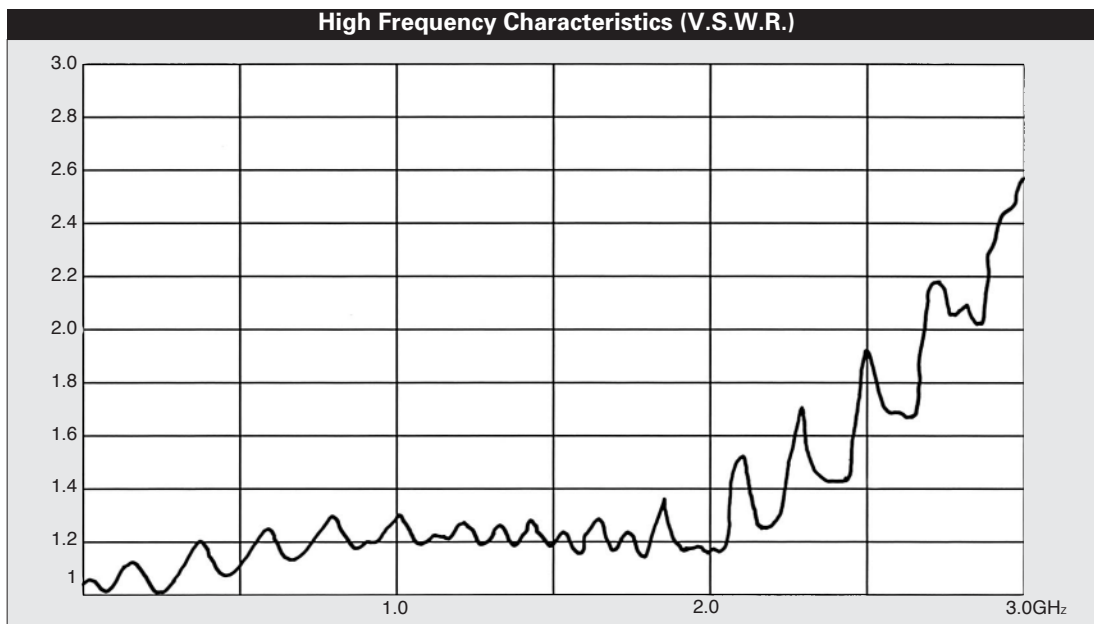　Refer to V.S.W.R. data on the following pages.

■ Applications

In-car communication, car sensors (temperature, pressure), automotive audio systems, GPS antenna systems, RACS antenna audio/video antenna systems, CRT displays, medical and measuring instrumentation, variety of communication equipment, office automation equipment, LAN systems.

*"Twin Crimp" is a registered trade mark of Hirose Electric.

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GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

◈ Test Data (Using 1.5D-2V Type cable)

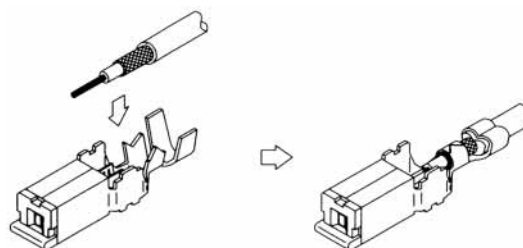**High Frequency Characteristics (V.S.W.R.)**

Note: Typical data using fully assemblied and connected GT5-1S-HU and the GT5-1PP-HU.

◈ Termination sequence
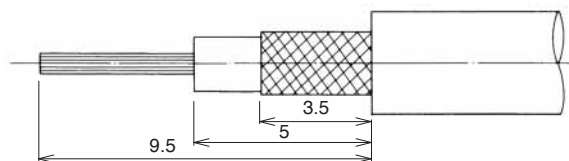
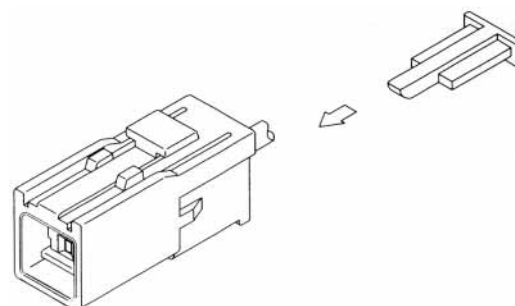| 1. Strip the cable.	2. Crimp the cable to the terminal.
3. Insert the terminal in the housing until is fully locked.	4. Fully insert the retainer.
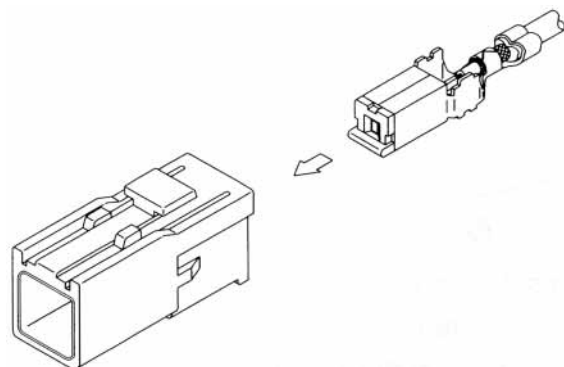
HRS

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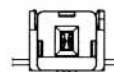
GT5 Series

Terminals for coaxial shielded cable

■ F Connector Terminals
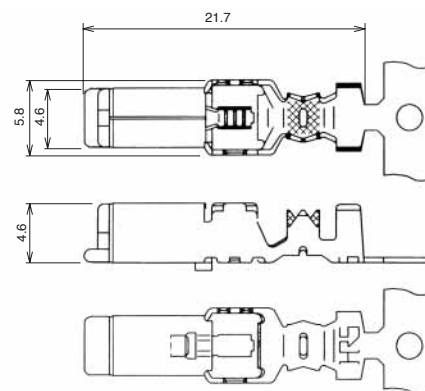
Part Number	CL No.	Conductor Size (AWG)	Inner Insulation Diameter	Outer Diameter	Packaging	RoHS
GT5-30/0.7-1.5SCF(70)	755-0065-1-70	#30 or equivalent	0.6 to 0.9mm	1.4 to 1.8mm	1,300 pcs. per reel	
GT5-2428/1.1-2.2SCF	755-0123-6	#24 to 28 or equivalent	1.0 to 1.4mm	2.0 to 2.4mm	1,300 pcs. per reel	
GT5-2428/1.6-2.5SCF(70)	755-0078-3-70	#24 to 28 or equivalent	1.5 to 2.0mm	2.3 to 2.7mm	1,300 pcs. per reel	
GT5-30/1.6-2.9SCF(70)	755-0022-9-70	#30 or equivalent				
GT5-2428/1.6-2.9SCF(70)	755-0002-1-70	#24 to 28 or equivalent	1.5 to 2.0mm	2.6 to 3.4mm	1,300 pcs. per reel	
GT5-2022/1.6-2.9SCF(70)	755-0071-4-70	#20 to 22 or equivalent				
GT5-2022/F2.7-3.5SCF(70)	755-0077-0-70	#20 to 22 or equivalent	2.0 to 2.5mm	3.3 to 3.7mm	1,100 pcs. per reel	
* GT5-2022/F3.3-3.8SCF(70)	755-0054-5-70	#20 to 22 or equivalent	2.5 to 2.9mm	3.6 to 4.0mm	1,100 pcs. per reel	YES
* GT5-30/F3.3-5SCF(70)	755-0016-6-70	#30 or equivalent				
* GT5-2428/F3.3-5SCF(70)	755-0012-5-70	#24 to 28 or equivalent	2.5 to 2.9mm	4.6 to 5.0mm	1,100 pcs. per reel	
* GT5-2022/F3.3-5SCF(70)	755-0034-8-70	#20 to 22 or equivalent				
* GT5-30/F4-5SCF(70)	755-0020-3-70	#30 or equivalent				
* GT5-2428/F4-5SCF(70)	755-0024-4-70	#24 to 28 or equivalent	3.0 to 3.6mm	4.6 to 5.0mm	1,100 pcs. per reel	
* GT5-2022/F4-5SCF(70)	755-0036-3-70	#20 to 22 or equivalent				

Part	Material	Finish
Insulator	PBT	Color: Dark gray
Crimp terminals	Phosphor bronze	Tin plating
Outer terminals	Brass	Tin plating

Note: Products marked with an asterisk (*) indicate polyethylene foam insulation.
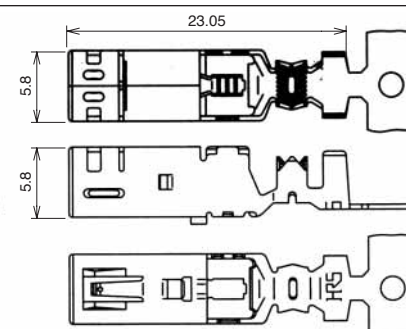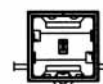
■ M Connector Terminals
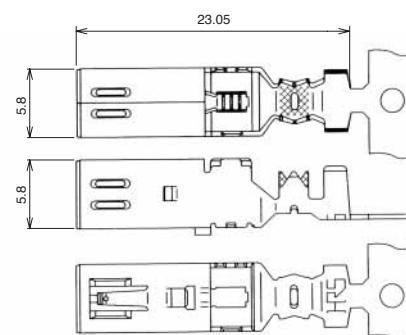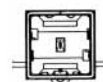
Part Number	CL No.	Conductor Size (AWG)	Inner Insulation Diameter	Outer Diameter	Packaging	RoHS
GT5-30/0.7-1.5PCF(70)	755-0017-9-70	#30 or equivalent	0.6 to 0.9mm	1.4 to 1.8mm	900 pcs. per reel	
GT5-30/1.6-2.9PCF(70)	755-0021-6-70	#30 or equivalent				
GT5-2428/1.6-2.9PCF(70)	755-0001-9-70	#24 to 28 or equivalent	1.5 to 2.0mm	2.6 to 3.4mm	900 pcs. per reel	
GT5-2022/1.6-2.9PCF(70)	755-0094-0-70	#20 to 22 or equivalent				
GT5-2022/F2.7-3.5PCF(70)	755-0076-8-70	#20 to 22 or equivalent	2.0 to 2.5mm	3.3 to 3.7mm	900 pcs. per reel	
* GT5-2022/F3.3-3.8PCF(70)	755-0053-2-70	#20 to 22 or equivalent	2.5 to 2.9mm	3.6 to 4.0mm	900 pcs. per reel	
* GT5-30/F3.3-5PCF(70)	755-0015-3-70	#30 or equivalent				YES
* GT5-2428/F3.3-5PCF(70)	755-0011-2-70	#24 to 28 or equivalent	2.5 to 2.9mm	4.6 to 5.0mm	900 pcs. per reel	
* GT5-2022/F3.3-5PCF(70)	755-0033-5-70	#20 to 22 or equivalent				
* GT5-30/F4-5PCF(70)	755-0019-4-70	#30 or equivalent				
* GT5-2428/F4-5PCF(70)	755-0023-1-70	#24 to 28 or equivalent	3.0 to 3.6mm	4.6 to 5.0mm	900 pcs. per reel	
* GT5-2022/F4-5PCF(70)	755-0035-0-70	#20 to 22 or equivalent				

Part	Material	Finish
Insulator	PBT	Color: Dark gray
Crimp terminals	Brass	Tin plating
Outer terminals	Brass	Tin plating

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

■ Low-insertion M Connector Terminals

Part Number	HRS No.	Conductor Size (AWG)	Inner Insulation Diameter	Outer Diameter	Packaging	RoHS
GT5L-30/0.7-1.5PCF(70)	755-0068-0-70	#30 or equivalent	0.6 to 0.9mm	1.4 to 1.8mm	900 pcs. per reel	
GT5L-30/1.6-2.9PCF(70)	755-0067-7-70	#30 or equivalent		2.6 to 3.4mm		
GT5L-2428/1.6-2.9PCF(70)	755-0066-4-70	#24 to 28 or equivalent	1.5 to 2.0mm	2.6 to 3.4mm	900 pcs. per reel	YES
GT5L-2428/1.6-2.5PCF(70)	755-0079-6-70	#24 to 28 or equivalent		2.3 to 2.7mm		

Part	Material	Finish
Insulator	PBT	Color: Dark gray
Crimp terminals	Brass	Tin plating
Outer terminals	Brass	Tin plating

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

GT 5 | GT 13 | GT 16 | PO5G | GT 11 | GT 14 | GT 17 | GT 19 | GT 3 | GT 6W | GT 7 | GT 10 | GT 18W | GT 15 | GT 8 | GT 9 | GT 25

HRS

9

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GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

For Single-Conductor coaxial shielded cable

■ F Connectors

● Housings

GT5-1S-HU

▶**Keying Configurations**

Figure ① Figure ② Figure ③

Figure ④ Figure ⑤ Figure ⑥

Figure ⑦ Figure ⑧ Figure ⑨
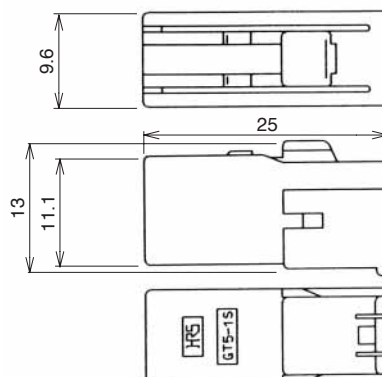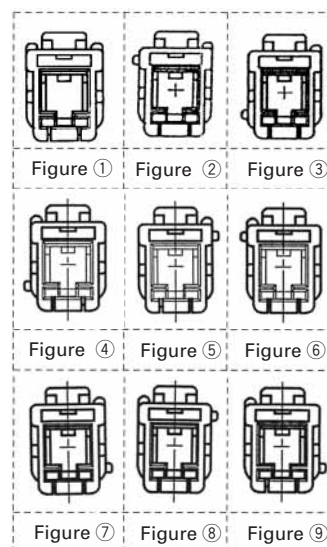
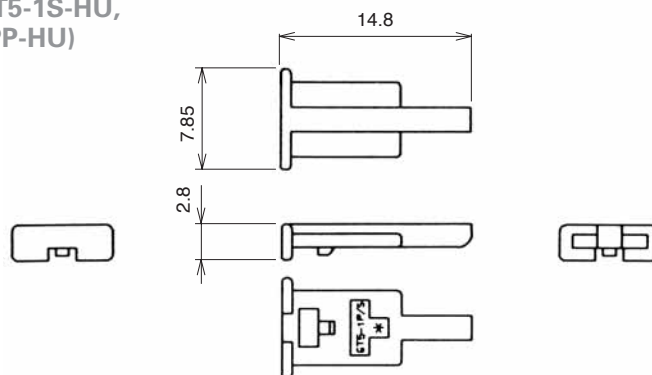| Part Number	CL No.	Material	Color	Key polarizing code	Corresponding M Connector Housing- In-line	Corresponding M Connector Assembly- Board Mounting	USCAR-19 Coding	RoHS
GT5-1S-HU	755-0004-7		Light gray	Figure ①	GT5-1PP-HU(70)	GT5-1P-DS(70)	—	
GT5-1S-HU(A)	755-0037-6		Brown	Figure ②	GT5-1PP-HU(A)(70)	GT5-1P-DS(A)(70)	A	
GT5-1S-HU(B)	755-0038-9		Green	Figure ③	GT5-1PP-HU(B)(70)	GT5-1P-DS(B)(70)	B	
GT5-1S-HU(C)	755-0080-5		Blue	Figure ④	GT5-1PP-HU(C)(70)	GT5-1P-DS(C)(70)	C	
GT5-1S-HU(D)	755-0081-8	PBT	Purple	Figure ⑤	GT5-1PP-HU(D)(70)	GT5-1P-DS(D)(70)	D	YES
GT5-1S-HU(E)	755-0082-0		Pink	Figure ⑥	GT5-1PP-HU(E)(70)	GT5-1P-DS(E)(70)	E	
GT5-1S-HU(I)	—		Black	Figure ⑦	GT5-1PP-HU(I)	GT5-1P-DS(I)	I	
GT5-1S-HU(J)	—		Cream white	Figure ⑧	GT5-1PP-HU(J)	GT5-1P-DS(J)	J	
GT5-1S-HU(K)	—		Pastel orange	Figure ⑨	GT5-1PP-HU(K)	GT5-1P-DS(K)	K	

▶**Shown with inserted retainer.**
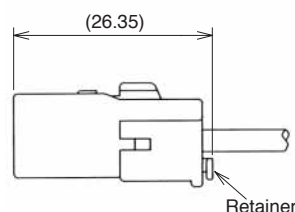
Retainer

● Retainer (-Optional-Used with the housings: GT5-1S-HU, GT5-1PP-HU, GT5N-1PP-HU, GT5H-1PP-HU)

Part Number	CL No.	Material	Color	RoHS
GT5-1P/S-R	755-0006-2	PBT	Dark gray	YES

● Housing (Not requiring use of the retainer)

GT5R-1S/HU

Part Number	CL No.	Material	Color	RoHS
GT5R-1S-HU	755-0047-0	PBT	Light gray	YES

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GT5 Series

■ M Connectors

● Housings

Keying Configurations

Figure ① Figure ② Figure ③
Figure ④ Figure ⑤ Figure ⑥
Figure ⑦ Figure ⑧ Figure ⑨

Mounting bracket attachment side

Outside ground connection

Shown with inserted retainer.

(31.35)

Retainer(GT5-1P/S-R)

Part Number	CL No.	Corresponding F Connector Housing	Color	Key polarizing code	USCAR-19 Coding	RoHS
GT5-1PP-HU(70)	755-0005-0-70	GT5-1S-HU	Light Gray	Figure ①	—	
GT5-1PP-HU(A)(70)	755-0039-1-70	GT5-1S-HU(A)	Brown	Figure ②	A	
GT5-1PP-HU(B)(70)	755-0040-0-70	GT5-1S-HU(B)	Green	Figure ③	B	
GT5-1PP-HU(C)(70)	755-0103-9-70	GT5-1S-HU(C)	Blue	Figure ④	C	
GT5-1PP-HU(D)(70)	755-0104-1-70	GT5-1S-HU(D)	Purple	Figure ⑤	D	YES
GT5-1PP-HU(E)(70)	755-0105-4-70	GT5-1S-HU(E)	Pink	Figure ⑥	E	
GT5-1PP-HU(I)(70)	—	GT5-1S-HU(I)	Black	Figure ⑦	I	
GT5-1PP-HU(J)(70)	—	GT5-1S-HU(J)	Cream white	Figure ⑧	J	
GT5-1PP-HU(K)(70)	—	GT5-1S-HU(K)	Pastel orange	Figure ⑨	K	

Note : Refer to pages 27 for panel mounting in-line bracket.

Part	Material	Finish
Housing	PBT	——
Ground terminal	Phosphor bronze	Tin plating

● Housings (For use with H type mounting bracket)
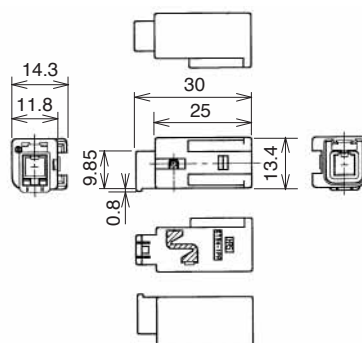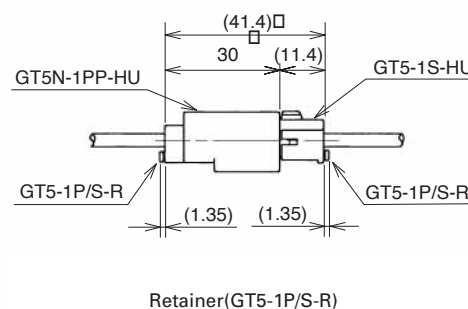
Fully mated connector assemblies.

(41.4)
(11.4)
GT5H-1PP-HU
GT5-1S-HU
GT5-1P/S-R
20.25
GT5-1P/S-R
(1.35)
(1.35)

Retainer(GT5-1P/S-R)
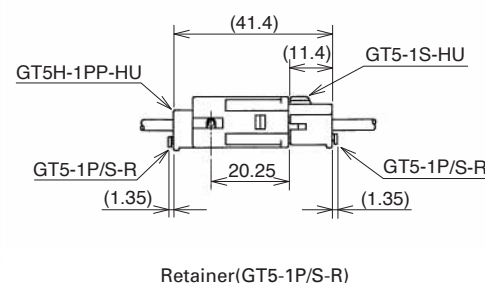
Part Number	CL No.	Color	Material	Corresponding F Connector Housing	RoHS
GT5H-1PP-HU (10)	755-0093-7 10	Light Gray	PBT	GT5-1S-HU	YES
				GT5R-1S-HU	

● Housing (For use with N type mounting bracket)
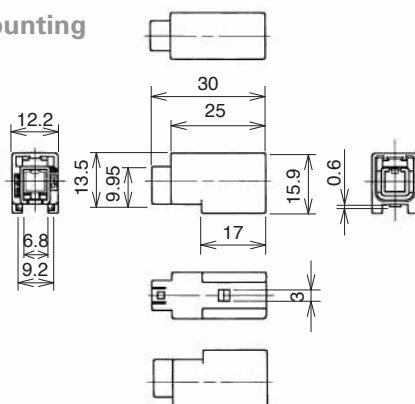
Fully mated connector assemblies.

(41.4)
30
(11.4)
GT5N-1PP-HU
GT5-1S-HU
GT5-1P/S-R
GT5-1P/S-R
(1.35)
(1.35)

Retainer(GT5-1P/S-R)

Part Number	CL No.	Color	Material	Corresponding F Connector Housing	RoHS
GT5N-1PP-HU	755-0090-9	Light Gray	PBT	GT5-1S-HU	YES
				GT5R-1S-HU	

GT5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
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GT 3
GT 6W
GT 7
GT 10
GT 18W
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GT 25

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

GT5 Series

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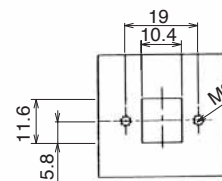● **Housings**

[**Panel mounting, enhanced shielding type**]
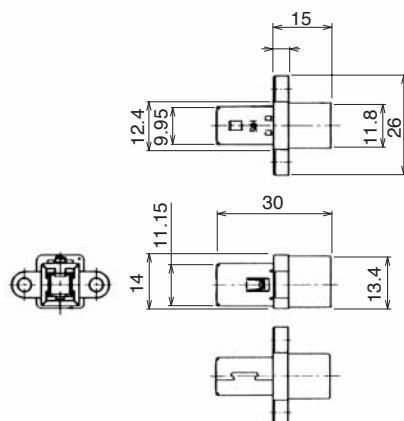
◈**Recommended Panel Cut-out**

◈**Mounted and fully mated connector assemblies**

Panel thickness:1.6

GT5-1S-HU

M3

GT5-1P/S-R

(1.35)
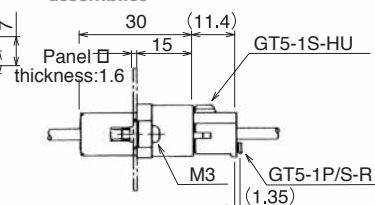
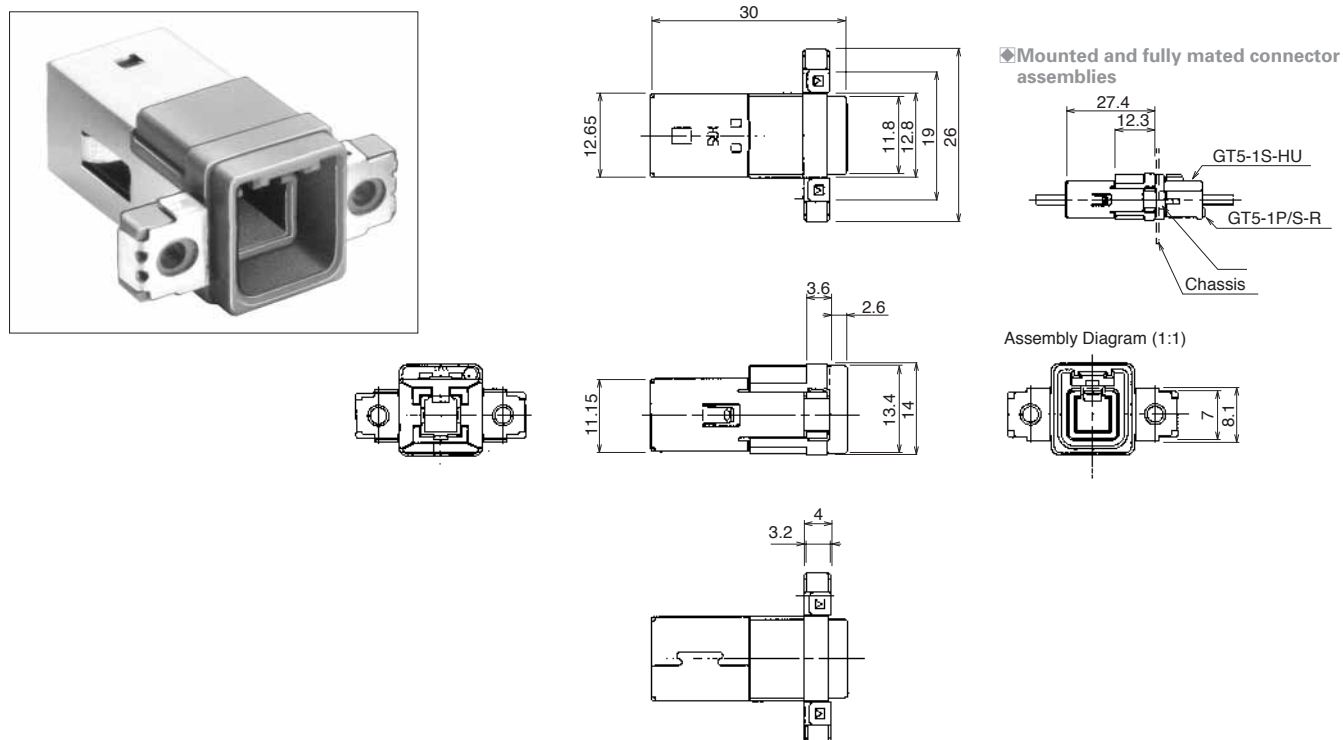| Part Number	CL No.	Part	Material	Finish	Corresponding F Connector Housing	RoHS
GT5A-1PP-HU(70)	755-0025-7-70	Housing	PBT	Color: Light gray	GT5-1S-HU, GT5R-1S-HU	YES
		Ground terminal	Brass	Tin plating		

Note 1: Retainer is unnecessary.
Note 2: Use JIS B 1111 and 1101 M3 screws for the mounting screws.
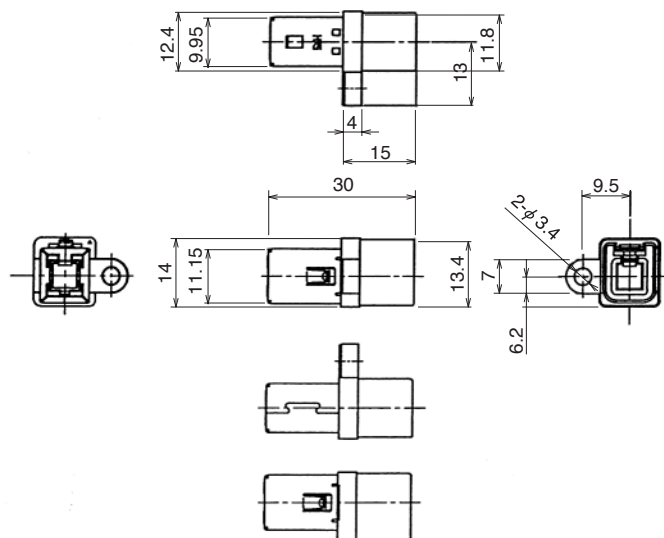
Part Number	CL No.	Part	Material	Finish	Corresponding F Connector Housing	RoHS
GT5P-1PP-HU(70)	755-0030-7-70	Housing	PBT	Color: Light gray	GT5-1S-HU, GT5R-1S-HU	YES
		Ground terminal	Brass	Tin plating		

Note 1: Retainer is unnecessary.
Note 2: Use JIS B 1111 and 1101 M3 screws for the mounting screws.

HRS

◈**Mounted and fully mated connector assemblies**

GT5-1S-HU

GT5-1P/S-R

Chassis

Assembly Diagram(1:1)
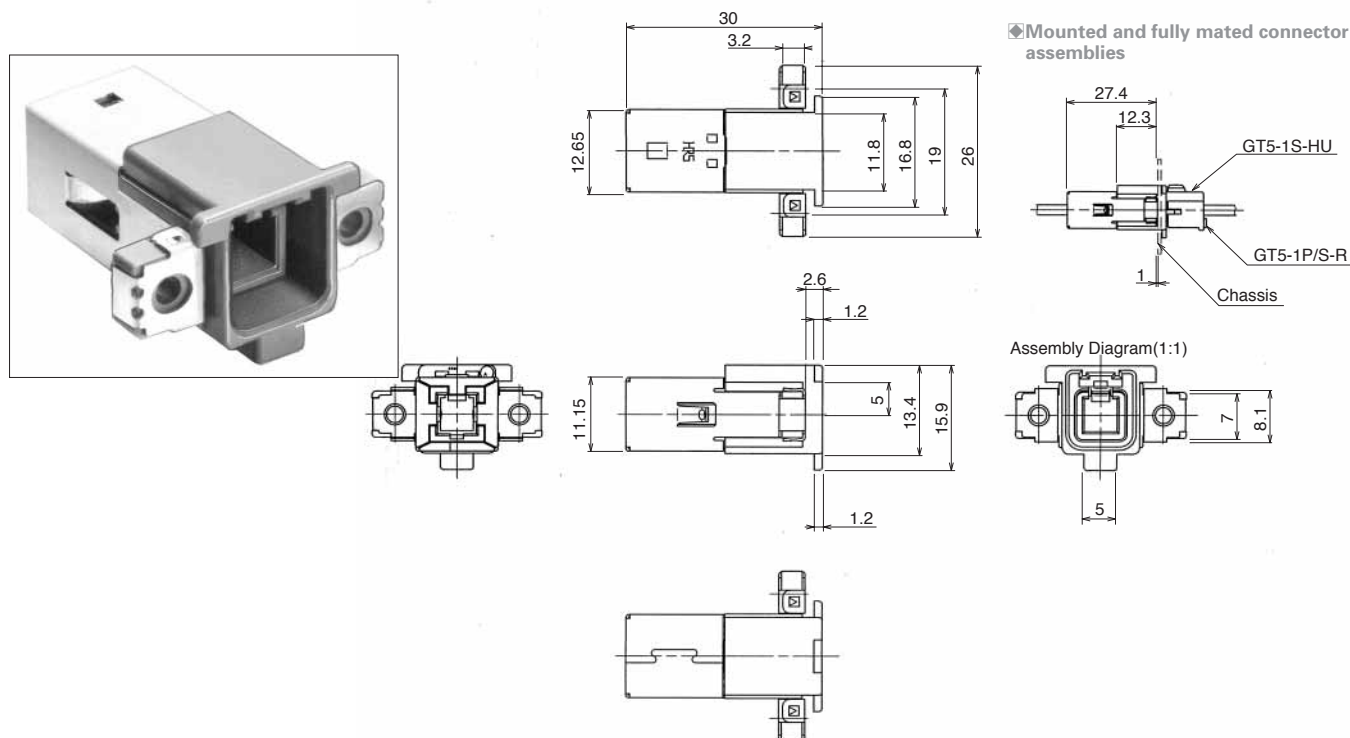
Part Number	CL No.	Part	Material	Finish	Corresponding F Connector Housing	RoHS
GT5B-1PP-HU(70)	755-0051-7-70	Housing	PBT	Color: Light gray	GT5-1S-HU, GT5R-1S-HU	YES
		Ground terminal	Copper alloy	Tin plating		

Note 1: Retainer is unnecessary.
Note 2: Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws for the mounting screws.

◈**Mounted and fully mated connector assemblies**

GT5-1S-HU

GT5-1P/S-R

Chassis

Assembly Diagram (1:1)

Part Number	CL No.	Part	Material	Finish	Corresponding F Connector Housing	RoHS
GT5S-1PP-HU(70)	755-0050-4-70	Housing	PBT	Color: Light gray	GT5-1S-HU, GT5R-1S-HU	YES
		Ground terminal	Copper alloy	Tin plating		

Note 1: Retainer is unnecessary.
Note 2: Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws for the mounting screws.

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

GT5
GT 13
GT 16
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GT 25

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GT5 Series

● **Connector assembly, Printed Circuit Board Mounting Type**

Figure ① Figure ② Figure ③
Figure ④ Figure ⑤ Figure ⑥
Figure ⑦ Figure ⑧ Figure ⑨

◀ **Fully Mated connector assemblies**

GT5-1P-DS(70) GT5-1
GT5-1P/S-R
Note

◀ **Recommended PCB Mounting Pattern**

For outer conductor
2-φ1.2 $^{+0.1}_{0}$
For center conductor
φ1.2 $^{+0.1}_{0}$
2-φ3.2
5.45±0.1
5.25±0.05
15.4
7.7±0.1
3±0.05 Panel
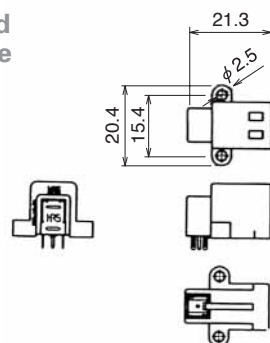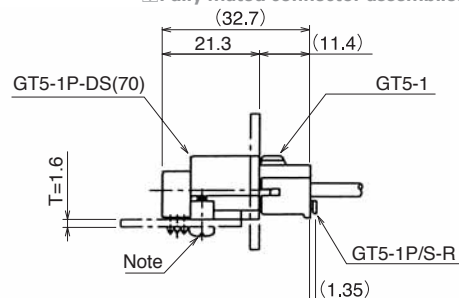
Part Number	CL No.	Color	Key polarizing code	M Connector-Board Type	Corresponding F Connector Housing	RoHS
GT5-1P-DS(70)	755-0007-5-70	Light Gray	Figure ①	GT5-1P-DS	GT5-1S-HU	
GT5-1P-DS(A)(70)	755-0041-3-70	Brown	Figure ②	GT5-1P-DS(A)	GT5-1S-HU(A)	
GT5-1P-DS(B)(70)	755-0042-6-70	Green	Figure ③	GT5-1P-DS(B)	GT5-1S-HU(B)	
GT5-1P-DS(C)(70)	755-0083-3-70	Blue	Figure ④	GT5-1P-DS(C)	GT5-1S-HU(C)	
GT5-1P-DS(D)(70)	755-0084-6-70	Purple	Figure ⑤	GT5-1P-DS(D)	GT5-1S-HU(D)	YES
GT5-1P-DS(E)(70)	755-0085-9-70	Pink	Figure ⑥	GT5-1P-DS(E)	GT5-1S-HU(E)	
GT5-1P-DS(I)(70)	—	Black	Figure ⑦	GT5-1P-DS(I)	GT5-1S-HU(I)	
GT5-1P-DS(J)(70)	—	Cream white	Figure ⑧	GT5-1P-DS(J)	GT5-1S-HU(J)	
GT5-1P-DS(K)(70)	—	Pastel orange	Figure ⑨	GT5-1P-DS(K)	GT5-1S-HU(K)	

Part	Material	Finish
Housing	PBT	-
0.64 x 1.1 Terminals	Brass	Tin plating
Insulator	PBT	Dark gray
Outer terminals	Phosphor bronze	Tin plating

Note: Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws (for a board thickness of 1.6 mm) for the mounting screws.
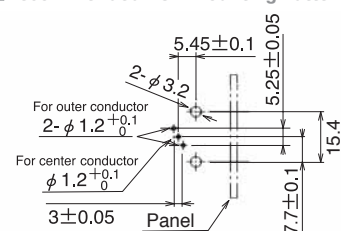
* Eight types of keys are available.
Please use a mating F connector housing of a matching key type.

◀ **Fully Mated connector assemblies**

GT5E-1P-DS(70) GT5-1S-HU
GT5-1P/S-R

◀ **Recommended PCB Mounting Pattern**

For outer conductor
2-φ1.2 $^{+0.1}_{0}$
For center conductor
φ1.2 $^{+0.1}_{0}$
For fixing pin
φ1.3 $^{+0.1}_{0}$
7.05±0.1 11
2.3±0.1
5.25±0.05
13.67±0.1
3±0.05 Panel
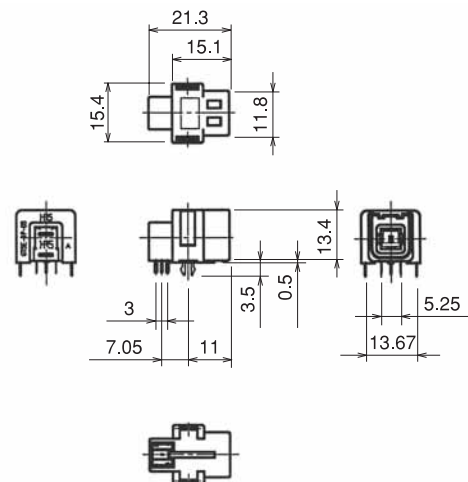
Part Number	CL No.	Part	Material	Finish	Corresponding F Connector Housing	RoHS
GT5E-1P-DS(70)	755-0092-4-70	Housing	PA	Natural	GT5-1S-HU	YES
		0.64 x 1.1 Terminals	Brass	Tin plating		
		Insulator	PBT	Dark gray		
		Outer terminals	Phosphor bronze	Tin plating	GT5R-1S-HU	
		Lock pin	Brass	Tin plating		

Two-position type-Each Single-Conductor coaxial shielded cable

■ F Connectors

● Housings

◆Keying Configurations

Figure ①   Figure ②   Figure ③   Figure ④

GT5-2P/S-R
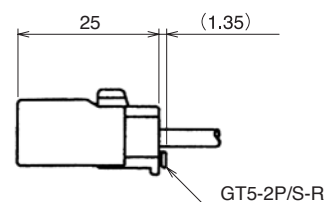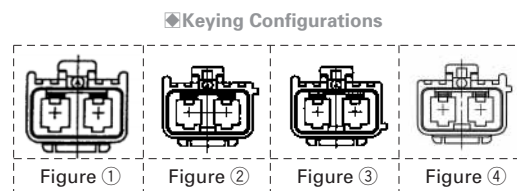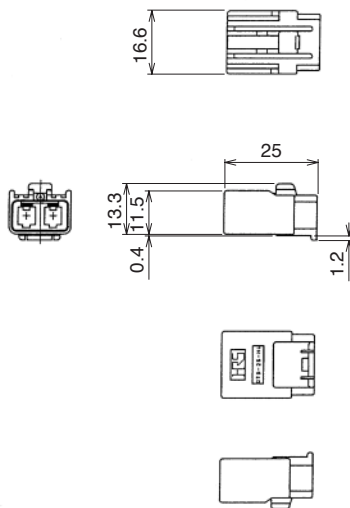
◆Shown with inserted retainer.

Part Number	CL No.	Material	Color	Key polarizing code	USCAR-19 Coding	RoHS
GT5-2S-HU	755-0044-1		Light Gray	Figure ①	D2	
GT5-2S-HU(A)	755-0059-9		Brown	Figure ②	A2	
GT5-2S-HU(B)	755-0060-8	PBT	Green	Figure ③	B2	YES
GT5-2S-HU(C)	755-0097-8		Blue	Figure ④	C2	
GT5-2S-HU(D)	755-0098-0		Light Gray	Figure ①		

Note 1: Used with separate retainer (GT5-2P/S-R).
Note 2: Please use a mating F connector of a matching key type.

■ M Connectors

● Housings[Panel Mounted Housing]

◆Recommended Mounting Bracket dimensions.

Tin plating

◆Fully mated connector assemblies

GT5-2S-HU

GT5-2P/S-R   GT5-2P/S-R

(1.35)   (1.35)

CAV NO

◆Keying Configurations

Figure ①   Figure ②   Figure ③   Figure ④
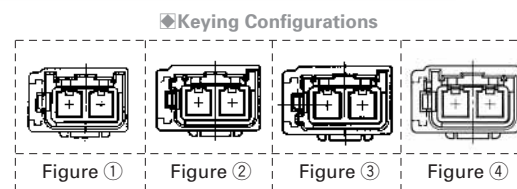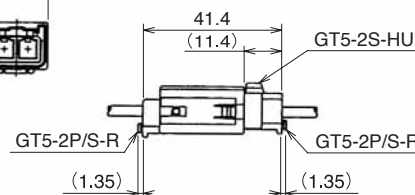
Part Number	CL No.	Color	Key polarizing code	RoHS
GT5-2PP-HU(70)	755-0045-4-70	Light Gray	Figure ①	
GT5-2PP-HU(A)(70)	755-0063-6-70	Brown	Figure ②	
GT5-2PP-HU(B)(70)	755-0064-9-70	Green	Figure ③	YES
GT5-2PP-HU(C)(70)	755-0099-3-70	Blue	Figure ④	
GT5-2PP-HU(D)(70)	——	Light Gray	Figure ①	

Part	Material	Finish
Housing	PBT	-
Ground terminal	Phosphor bronze	Tin plating

Note1: Used with separate retainer (GT5-2P/S-R).
Coding D2 at USCAR-19 is GT5-2PP-HU.
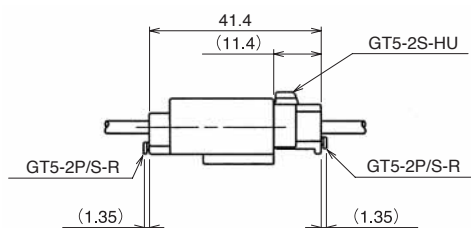**Note2:** Refer to page 27 for panel mounting in-line bracket.

GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

● Housing
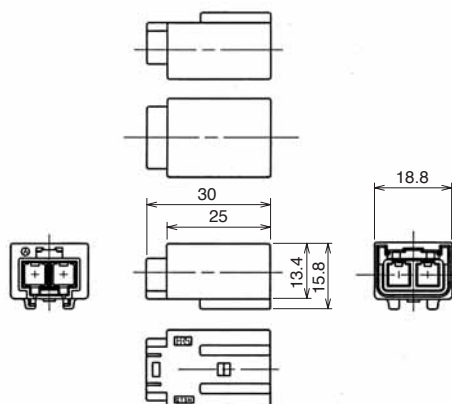
▣ Fully Mated connector assemblies

Part Number	CL No.	Material	Color	RoHS
GT5N-2PP-HU	755-0055-8	PBT	Light gray	YES

Note : Used with separate retainer (GT5-2P/S-R).
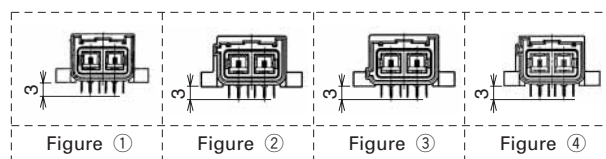
● Retainer – 2 position (Used with GT5-2S-HU, GT5-2PP-HU, and GT5N-2PP-HU)
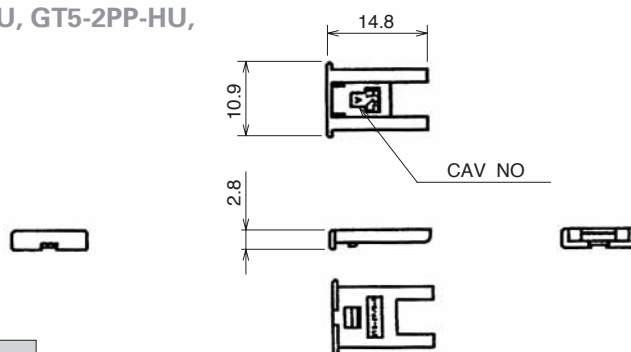
Part Number	CL No.	Material	Color	RoHS
GT5-2P/S-R	755-0046-7	PBT	Dark gray	YES

● Housing

▣ Keying Configurations

Figure ①　　Figure ②　　Figure ③　　Figure ④
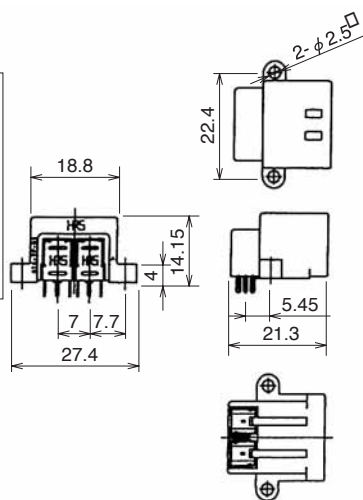
▣ Recommended Board Mounting Pattern

▣ Mounted and fully mated connector assemblies

Recommended Panel Cut-out

GT5-2P-DS (70)　GT5-2P-DS (A)(70)　GT5-2P-DS (B)(70)　GT5-2P-DS (C)(70)
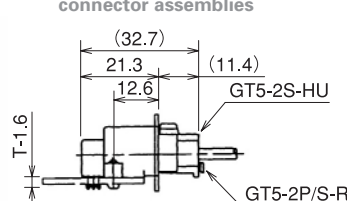
Part Number	CL No.	Material	Color	Key polarizing code	USCAR-19 Coding	RoHS
GT5-2P-DS(70)	755-0043-9-70	PBT	Light Gray	Figure ①	D2	YES
GT5-2P-DS(A)(70)	755-0061-0-70		Brown	Figure ②	A2	
GT5-2P-DS(B)(70)	755-0062-3-70		Green	Figure ③	B2	
GT5-2P-DS(C)(70)	755-0101-3-70		Blue	Figure ④	C2	
GT5-2P-DS(D)(70)	755-0102-6-70		Light Gray	Figure ①		
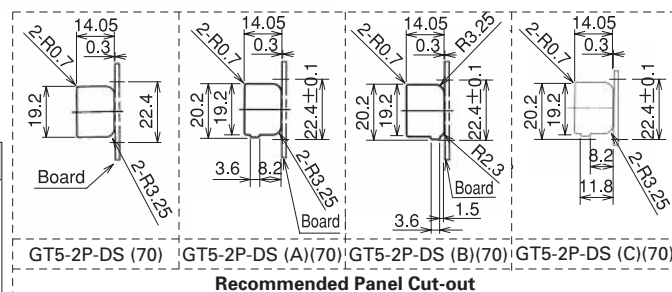
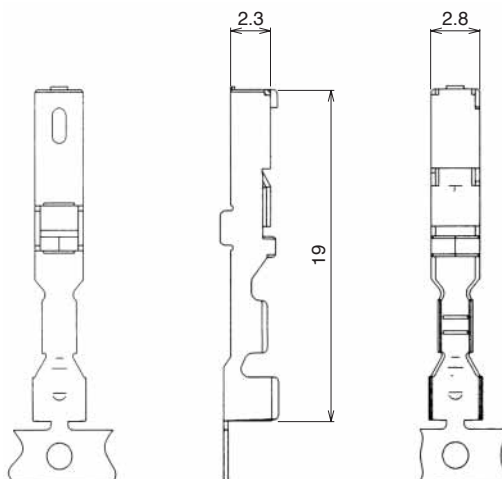**Note:** Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws
(for a board thickness of 1.6 mm) for the mounting screws.
Coding D2 at USCAR-19 is GT5-2P-DS.

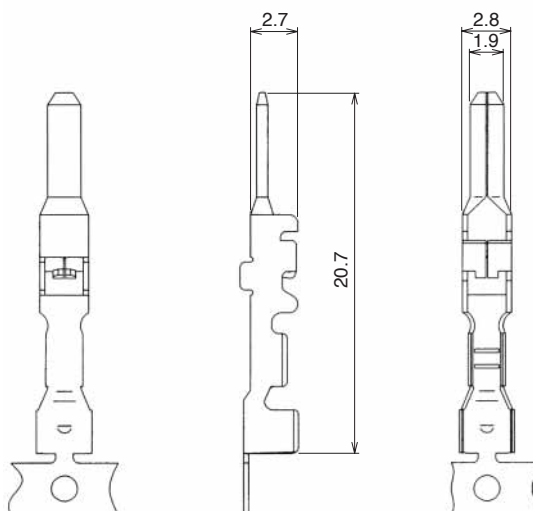## Power Supply Terminals

■ F Connector Terminals

2.3   2.8

19

Part Number	CL No.	Material	Finish	Conductor Size (AWG)	Outer Diameter	Packaging	RoHS
GT7-2022SCF(70)	757-0001-1-70	Copper alloy	Tin plating	#20 to 22	1.4 to 2.4mm	5,000pcs.per reel	YES
GT7A-2022SCF(70)	757-0003-7-70			#20 to 22	2.6 to 3.1mm	3,000pcs.per reel	

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

2.7   2.8
       1.9

20.7

Part Number	CL No.	Material	Finish	Conductor Size (AWG)	Outer Diameter	Packaging	RoHS
GT7-2022PCF(70)	757-0002-4-70	Brass	Tin plating	#20 to 22	1.4 to 2.4mm	5,000pcs.per reel	YES
GT7A-2022PCF(70)	757-0004-0-70			#20 to 22	2.6 to 3.1mm	3,000pcs.per reel	

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

GT5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

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

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GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

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

■ F Connectors

◀Shown with inserted retainer.

● Housing

(26.35)

21.1

25

12.5
10.8

Retainer
(GT5-2/1S-R)

Part Number	CL No.	Material	Color	RoHS
GT5-2/1S-HU	755-0009-0	PBT	Light gray	YES

Note : Used with separate retainer (GT5-2/1S-R).
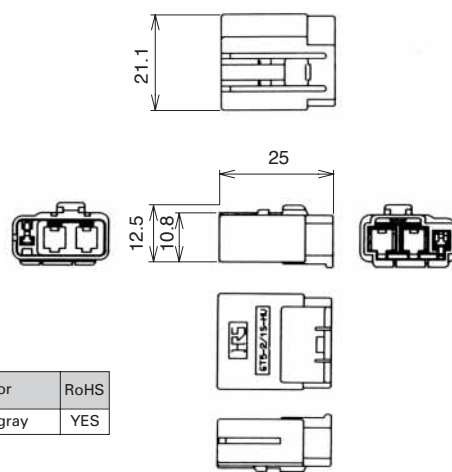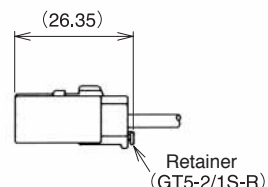
● Retainer (exclusively for GT5-2/1S-HU)

17.28

16.6

2.8

Part Number	CL No.	Material	Color	RoHS
GT5-2/1S-R	755-0003-4	PBT	Dark gray	YES
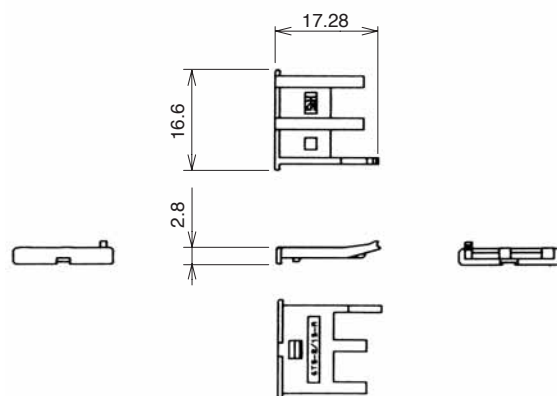
■ M Connectors

● Connector assembly, Printed Circuit Board mounting

31.9
26.9

21.3   23.3

13.4

◀Recommended Board Mounting Pattern

For power supply
$\phi 1.4 {}^{+0.1}_{0}$

For inner conductor
2- $\phi 1.2 {}^{+0.1}_{0}$

For outside conductor
4- $\phi 1.2 {}^{+0.1}_{0}$

2- $\phi 3.5$
5.25±0.05
13.1±0.1
26.9±0.1
7.7±0.1
7±0.1

3±0.05
5.45±0.1

Thickness :
1.6mm

◀Recommended Panel Cut-out

4-R3.25
13.3
0.3
23.7
26.9

Board

Part	Material	Finish
Housing	PBT	Color: Light gray
0. 64x1.1 Terminal	Brass	Tin plating
Insulator	PBT	Dark gray
Outer terminal	Phosphor bronze	Tin plating
Tub terminal for DS 070	Brass	Tin plating
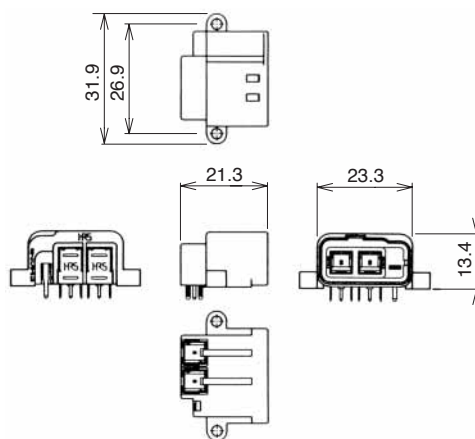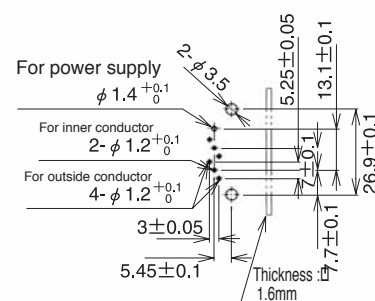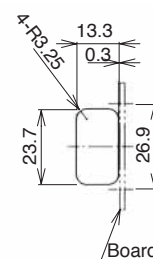
Part Number	CL No.	RoHS
GT5-2/1P-DS(70)	755-0014-0-70	YES

Note: Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws (for a board thickness of 1.6 mm) for the mounting screws.

HRS

■ M Connectors

● Housing - with External Ground

◈Shown with inserted retainer.

(31.35)

Retainer

30   26.3   13.4

Mounting bracket
attachment side

Outside ground connection

◈Recommended Mounting Bracket Dimensions

2.6±0.05   1.52 +0.03 −0   4.75min   17.75   5   2.8   0.6   1

1.6   1.5

6.8   Tin plating finish   4.2   7.8   9.8 0 −0.1

1.3 0 −0.1

14.5   8   5
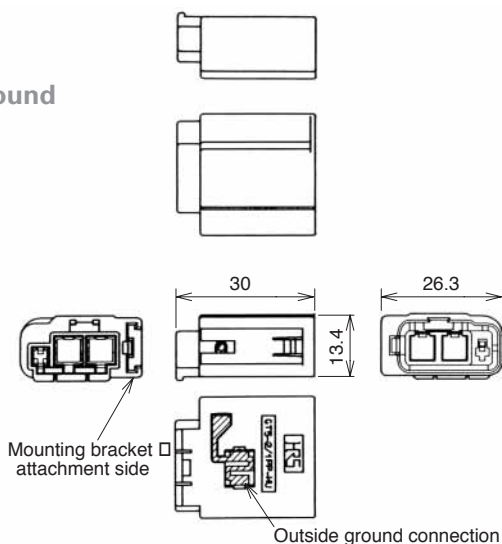
Part Number	CL No.	Part	Material	Finish	RoHS
GT5-2/1PP-HU(70)	755-0008-8-70	Housing	PBT	Color: Light gray	YES
		Ground terminal	Phosphor bronze	Tin plating	

Note 1: Used with separate retainer (GT5-2/1PP-R).
Note 2: Refer to page 27 for panel mounting in-line bracket.
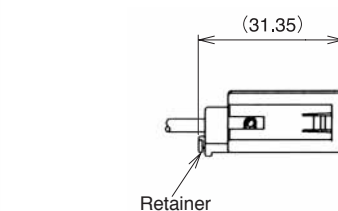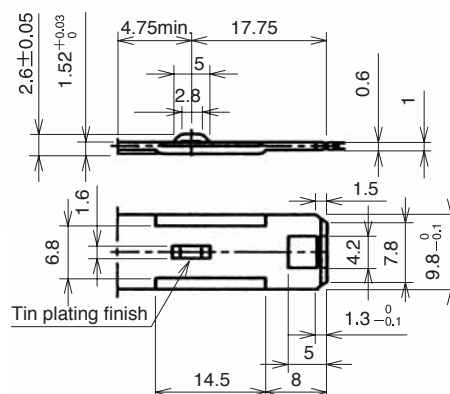
● Housing - without External Ground

30   25   13.4   15.8   23.3
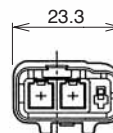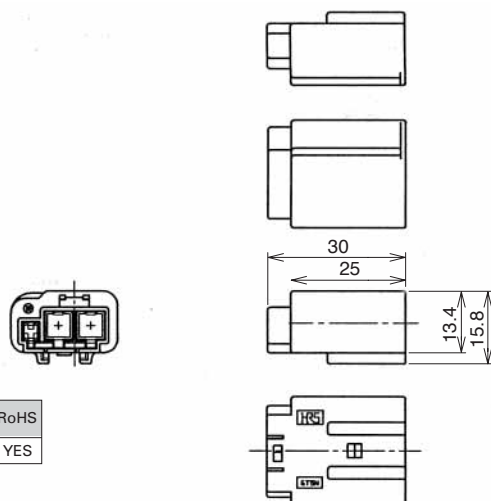
Part Number	CL No.	Material	Color	RoHS
GT5N-2/1PP-HU	755-0013-8	PBT	Light gray	YES

Note : Used with separate retainer GT5-2/1PP-R.

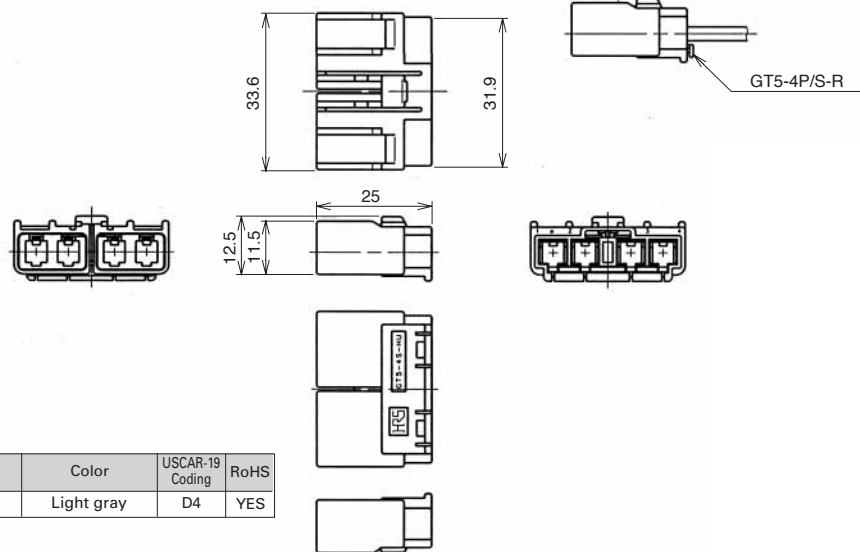## ● Retainer (Used with GT5N-2/1PP-HU and GT5-2/1PP-HU)

15.36

16.6

3.5
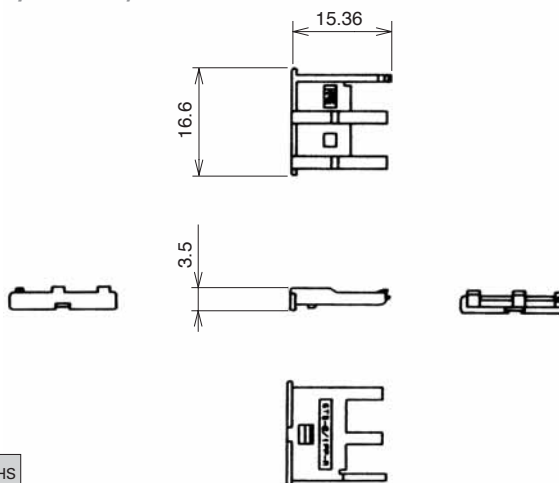
GT5-2 / 1PP-R

Part Number	CL No.	Material	Color	RoHS
GT5-2/1PP-R	755-0010-0	PBT	Dark gray	YES

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

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

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GT5 Series

4-Position – Single conductor shielded Coaxial cable

◗Shown with inserted retainer.

■ F Connector

GT5-4P/S-R

33.6 31.9
25
12.5 11.5

Part Number	CL No.	Material	Color	USCAR-19 Coding	RoHS
GT5-4S-HU	755-0056-0	PBT	Light gray	D4	YES

Note: Used with separate retainer (GT5-4P/S-R).

■ M Connector

35.8 31.9
0.6±0.08
1.2 +0.15 −0.05
3
9.2 +0.15 −0.05
30
21.5
14.6
13.8
16.2
8.5 +0.15 −0.1
31.9
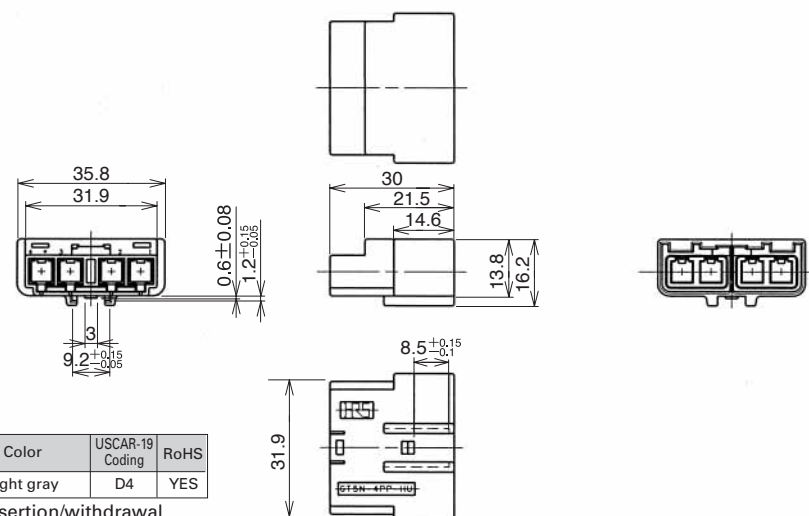
Part Number	CL No.	Material	Color	USCAR-19 Coding	RoHS
GT5N-4PP-HU	755-0057-3	PBT	Light gray	D4	YES

Note 1: The product should be used with a low-force insertion/withdrawal M connector terminal.
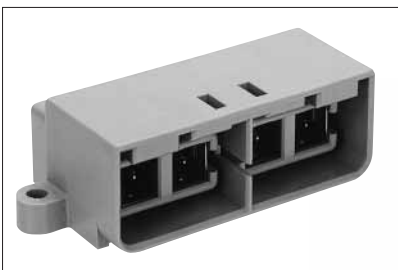**Note 2:** Used with separate retainer GT5-4P/S-R.

● Retainer (Used with GT5-4S-HU and GT5N-4PP-HU)

14.8
27.6
2.8
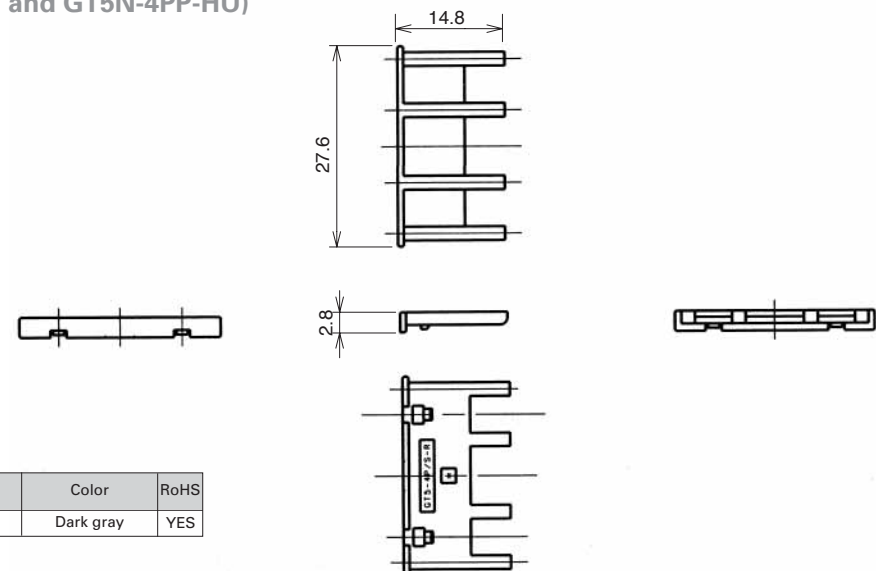
Part Number	CL No.	Material	Color	RoHS
GT5-4P/S-R	755-0058-6	PBT	Dark gray	YES

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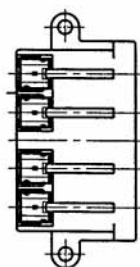
GT5 Series

■ M Connector

● Connector assembly, Printed Circuit Board Mounting

Part Number	CL No.	USCAR-19 Coding	RoHS
GT5-4P-DS(70)	755-0087-4-70	D4	YES

Item	Material	Color / Finish
Housing	PBT	Light gray
0.64×1.1Terminal	Brass	Tin plating
Insulator	PBT	Dark gray
Outer terminal	Phosphor bronze	Tin plating

◈ **Recommended Board Mounting Pattern**

◈ **Recommended Panel Cut-out**

◈ **Mounted and fully mated connector assemblies**

GT 5 − 4 S−HU

GT 5 − 4 P／S−R

M3 Screw

Board

Panel

PCB

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

GT 5 · GT 13 · GT 16 · PO5G · GT 11 · GT 14 · GT 17 · GT 19 · GT 3 · GT 6W · GT 7 · GT 10 · GT 18W · GT 15 · GT 8 · GT 9 · GT 25

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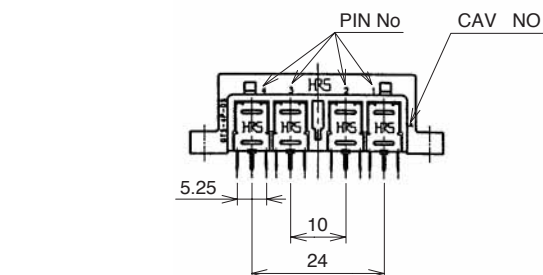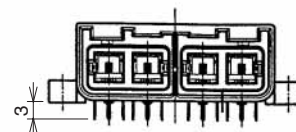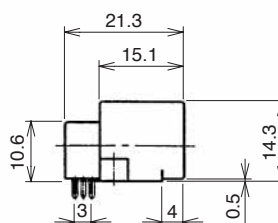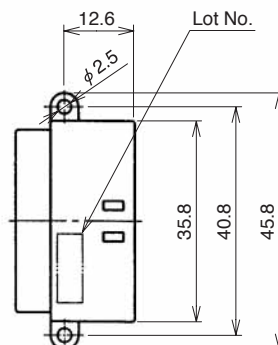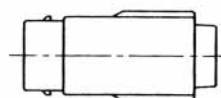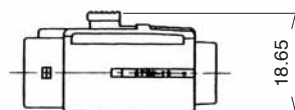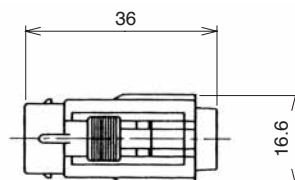
GT5 Series

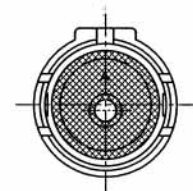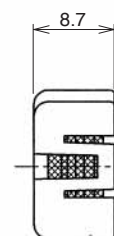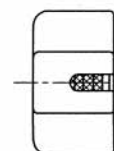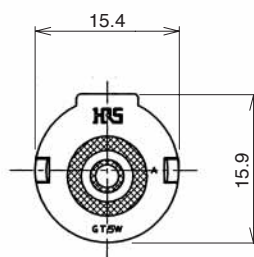# For Single Conductor Coaxial shielded Cable - Waterproof Type

■ F Connector

● Housing

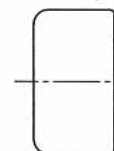| Part Number	CL No.	Material	Color	RoHS
GT5W-1S-HU	755-0027-2	PBT	Light gray	YES

Note: Specific retainer is determined by the type of the cable used.

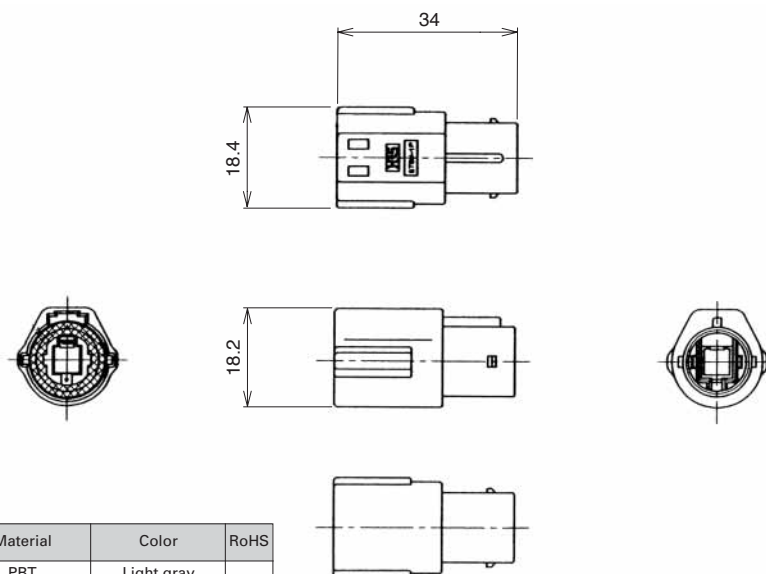### ● Retainer (Used with GT5W-1PP-HU, GT5JW-1PP-HU, GT5W-1S-HU and GT5W-1P-HU)

Part Number	CL No.	Material	Color	RoHS
GT5W-1P/S-R	755-0028-5	PBT	Dark gray	YES
		Silicon rubber Compound	Dark blue	

Note: Outer diameter of the cable must be within 2.9 to 3.4 mm. Consult nearest HRS representative for other diameters.

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GT5 Series

M Connectors

● Housing

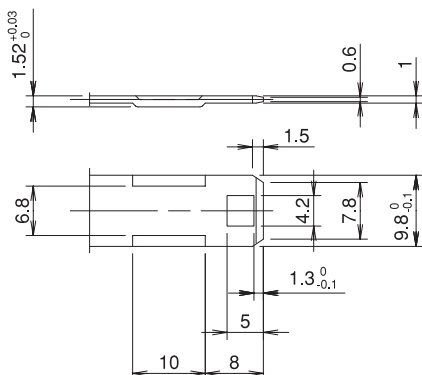| Part Number	CL No.	Part	Material	Color	RoHS
GT5W-1P-HU	755-0026-0	Housing	PBT	Light gray	YES
		Connector seal	Silicon rubber Compound	White	

Note: Use correct retainer.
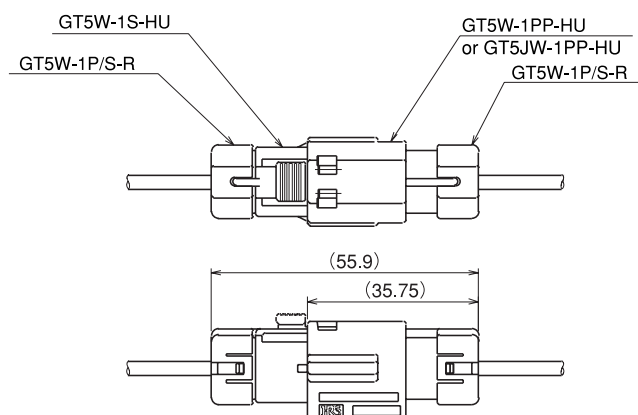
● Housings - Bracket Mounting
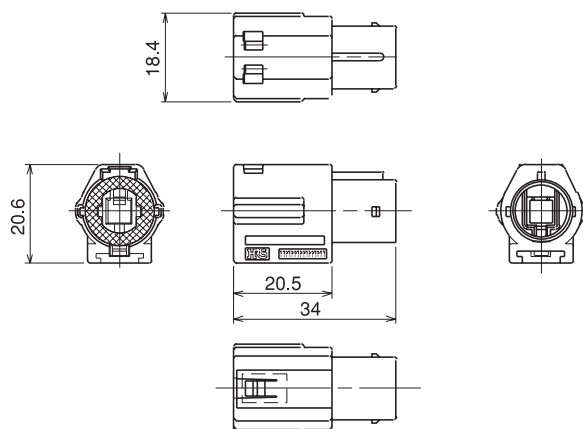
◈Recommended Bracket Dimensions Diagram(for GT5W-1PP-HU)

Please check elsewhere for information about the bracket for GT5JW-1PP-HU.

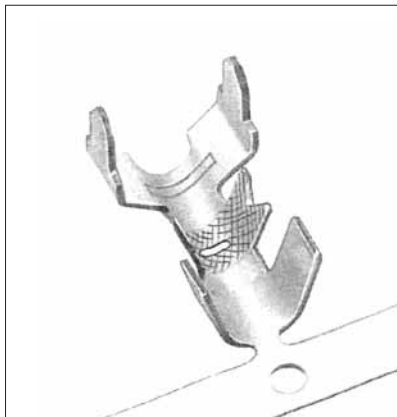◈Mounted and fully mated connector assemblies

GT5W-1S-HU
GT5W-1P/S-R
GT5W-1PP-HU or GT5JW-1PP-HU
GT5W-1P/S-R

Part Number	CL No.	Part	Material	Color	RoHS
GT5W-1PP-HU	755-0070-1	Housing	PBT	Light gray	YES
GT5JW-1PP-HU	755-0069-2	Connector seal	Silicon rubber Compound	White	

GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
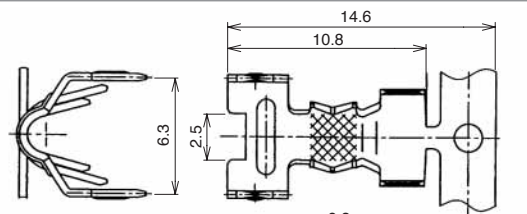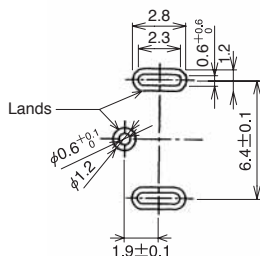GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

G Terminals

■ For Direct Coaxial Shielded Cable Termination

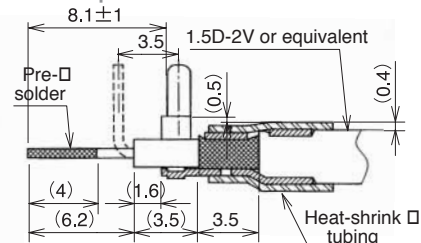◧ Board Termination Pattern

Lands

Part Number	CL No.	Material	Finish	Packaging	RoHS
GTA-1.6CF (70)	755-0032-2 -70	Brass	Tin plating	1,500 pcs. Per reel	YES

◧ Recommended Completed Termination cross section

1.5D-2V or equivalent

◧ Completed Termination cross section

1.5D-2V or equivalent

Pre-solder

Heat-shrink tubing
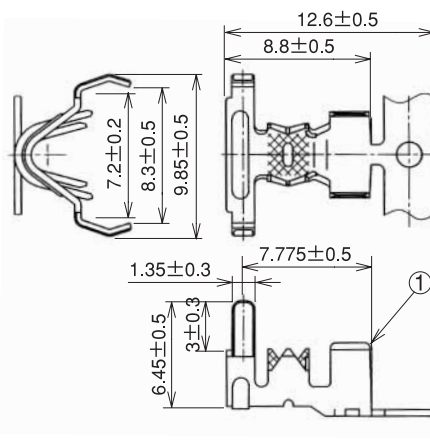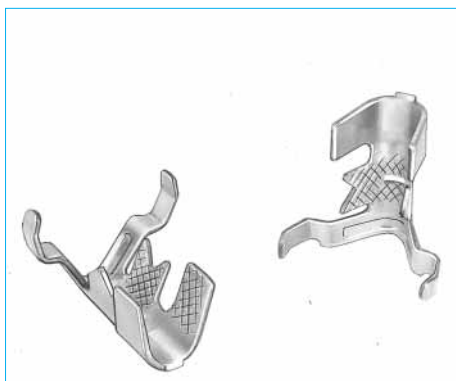
◧ Board Termination Pattern

Part Number	CL No.	Material	Finish	Packaging	RoHS
GTB-1.6CF(70)	755-0049-5-70	Brass	Tin plating	1,500 pcs. Per reel	YES

◧ Completed Termination cross section

1.5D-2V or equivalent

Heat-shrink tubing

◧ Board Termination Pattern

Lands
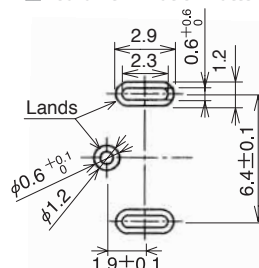
Part Number	CL No.	Material	Finish	Packaging	RoHS
G-1.6PCF(70)	755-0029-8-70	Brass	Tin plating	1,500 pcs. Per reel	YES

HRS

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GT5 Series

For Direct Coaxial Cable Termination

◈Recommended Board
Termination Pattern

◈Completed Termination Cross Section

Pre-solder

0.7 D
equivalent
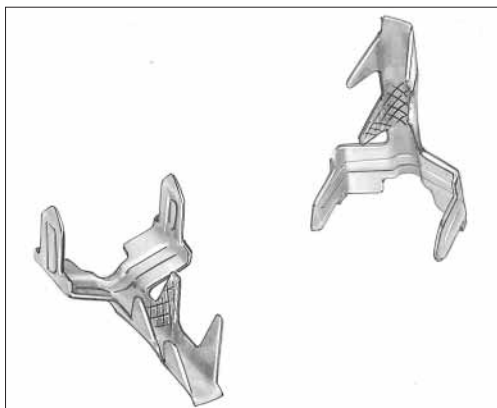
Part Number	CL No.	Material	Finish	Packaging	RoHS
GTA-0.7CF	755-0074-2	Brass	Tin plating	1,500 pcs. Per reel	YES

◈Recommended Board
Termination Pattern

Lands

◈Recommended Completed Termination cross
section

Pre-solder

0.7D
equivalent
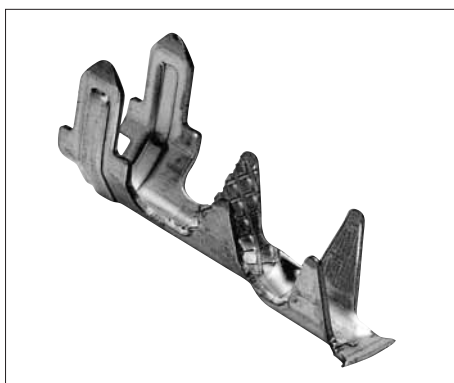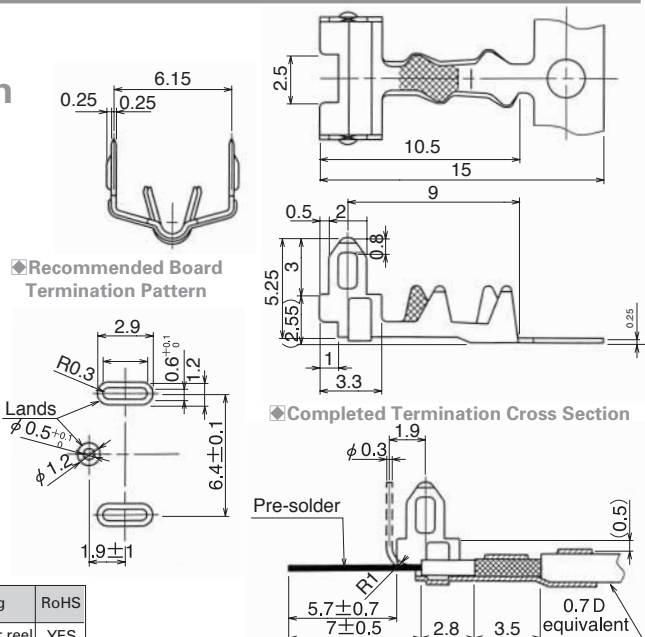
Part Number	CL No.	Material	Finish	Packaging	RoHS
GTB-0.7CF	755-0075-5	Brass	Tin plating	1,500 pcs. Per reel	YES

◈Recommended Board
Termination Pattern

Lands

◈Recommended Completed Termination cross
section

RG-71/UM equivalent
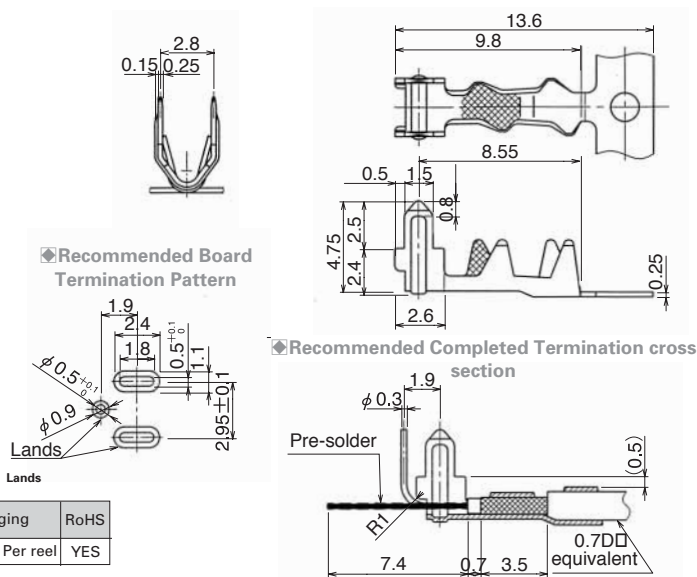
Part Number	CL No.	Material	Finish	Packaging	RoHS
GTE-3.7CF	755-0122-3	Brass	Tin plating	1,100 pcs. Per reel	YES

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

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

HRS

25

GT5 Series

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

GT 5
GT 13
GT 16
PO5G
GT 11
GT 14
GT 17
GT 19
GT 3
GT 6W
GT 7
GT 10
GT 18W
GT 15
GT 8
GT 9
GT 25

■ For Mid-Cable Termination

◆Recommended Panel Cut-out

Raised point of contact

◆Attachment Diagram

Panel

For use with coaxial cables 2.9 to 3.4 mm. outside diameter. 1.5D～2V equivalent

Setscrew (M2.5)

Part Number	CL No.	Material	Finish	Packaging	RoHS
GT-1.6PG-C(70)	755-0031-0-70	Brass	Tin plating	1	YES

■ Bottom Shield cover

● For Improved Electronic Noise Compatibility

Mounted Condition Installed
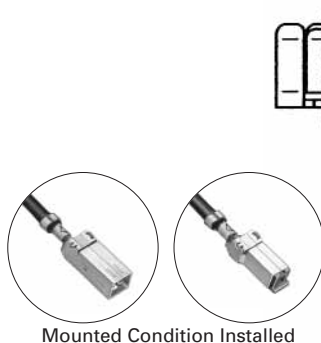
Part Number	CL No.	Material	Finish	RoHS
GT5-1P/S-CSB(70)	755-0048-2-70	Brass	Tin plating	YES

■ Top Shield cover

Mounted Condition Installed
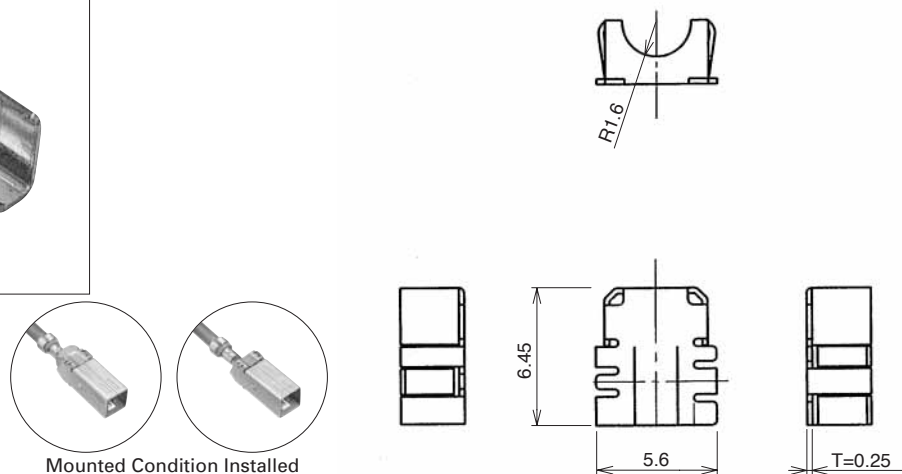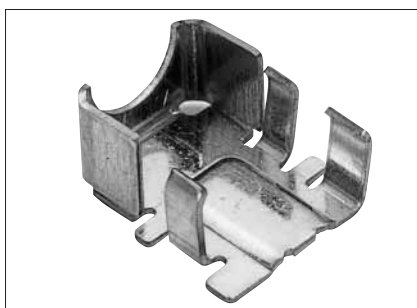
Part Number	CL No.	Material	Finish	RoHS
GT5C-1P-CSB(70)	755-0088-7-70	Brass	Tin plating	YES

HRS

■ Panel Mounting In-line Bracket
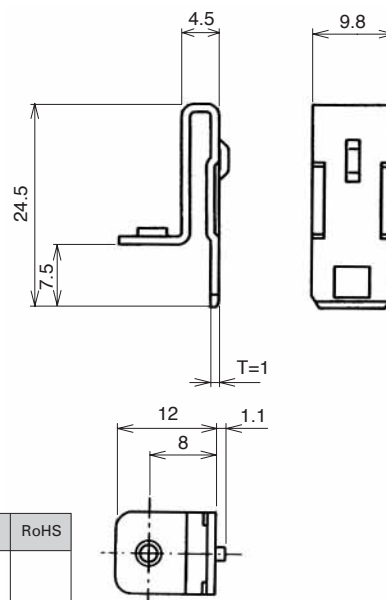
Part Number	CL No.	Material	Finish	Used with connectors	RoHS
GT-BK(70)	751-0039-6-70	SPCC	Tin plating	GT5-1PP-HU(70), GT5-1PP-HU(B)(70) GT5-1PP-HU(A)(70), GT5-1PP-HU(D)(70) GT5-1PP-HU(C)(70), GT5-1PP-HU(I)(70) GT5-1PP-HU(E)(70), GT5-1PP-HU(K)(70) GT5-1PP-HU(J)(70), GT5-2PP-HU(70) GT5-2/1PP-HU(70), GT5-2PP-HU(B)(70) GT5-2PP-HU(A)(70), GT5-2PP-HU(D)(70) GT5-2PP-HU(C)(70)	YES

◆ Termination Tools

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

Automatic crimping machine

Part Number CM-105

Specifications

Item	Specification	Remarks
Specification	1.5tons	
Stroke length	30mm	
Number of strokes	200spm(50Hz)	200spm(60Hz)
Weight	75kg	
Motor	0.2kW	AC100V
Crimping speed	2000 to 4000pcs. Per hour	

* 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.

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GT5 Series

● **Harnes Tool**

Name of Applicabe Terminal	Name of Applicabe Applicator	CL No.
GT5-30/0.7-1.5PCF(70)	AP105-GT5-30/0.7-1.5P	CL901-5021-8
GT5-30/0.7-1.5SCF(70)	AP105-GT5-30/0.7-1.5S	CL901-5080-7
GT5-2428/1.1-2.2SCF	AP105-GT5-2428/1.1-2.2S-ID	CL901-5171-0
GT5-2428/1.6-2.5PCF(70)	AP105-GT5-2428/1.6-2.5P	CL901-5100-2
GT5-2428/1.6-2.5SCF(70)	AP105-GT5-2428/1.6-2.5S	CL901-5101-5
GT5-30/1.6-2.9PCF(70)	AP105-GT5-30/1.6-2.9P-ID	CL901-5019-6
	AP105-GT5-30/1.6-2.9P	CL901-5017-0
	AP105-GT5-30/1.6-2.9P-A	CL901-5040-2
GT5-30/1.6-2.9SCF(70)	AP105-GT5-30/1.6-2.9S-ID	CL901-5020-5
	AP105-GT5-30/1.6-2.9S	CL901-5018-3
GT5-2428/1.6-2.9PCF(70)	AP105-GT5-2428/1.6-2.9P	CL901-5029-0
	AP105-GT5-2428/1.6-2.9PWS	CL901-5031-1
	AP105-GT5-2428/1.6-2.9P-B	CL901-5103-0
GT5-2428/1.6-2.9SCF(70)	AP105-GT5-2428/1.6-2.9S	CL901-5030-9
	AP105-GT5-2428/1.6-2.9SWS	CL901-5032-4
	AP105-GT5-2428/1.6-2.9S-B	CL901-5104-3
GT5-2022/1.6-2.9SCF(70)	AP105-GT5-2022/1.6-2.9S	CL901-5088-9
GT5-2022/F2.7-3.5PCF(70)	AP105-GT5-2022/F2.7-3.5P	CL901-5091-3
GT5-2022/F2.7-3.5SCF(70)	AP105-GT5-2022/F2.7-3.5S	CL901-5092-6
GT5-2022/F3.3-3.8PCF(70)	AP105-GT5-2022/F3.3-3.8P	CL901-5075-7
GT5-2022/F3.3-3.8SCF(70)	AP105-GT5-2022/F3.3-3.8S	CL901-5076-0
GT5-2428/F3.3-5PCF(70)	AP105-GT5-2428/F3.3-5P-ID	CL901-5037-8
GT5-2428/F3.3-5SCF(70)	AP105-GT5-2428/F3.3-5S-ID	CL901-5038-0
GT5-2022/F3.3-5PCF(70)	AP105-GT5-2022/F3.3-5P-ID	CL901-5058-8
	AP105-GT5-2022/F3.3-5P	CL901-5059-0
	AP105-GT5-2022/F3.3-5P2.2D-ID	CL901-5070-3
GT5-2022/F3.3-5SCF(70)	AP105-GT5-2022/F3.3-5S-ID	CL901-5060-0
	AP105-GT5-2022/F3.3-5S	CL901-5061-2
	AP105-GT5-2022/F3.3-5S2.2D-ID	CL901-5071-6
GT5-30/F4-5PCF(70)	AP105-GT5-30/F4-5P-ID	CL901-5033-7
GT5-30/F4-5SCF(70)	AP105-GT5-30/F4-5S-ID	CL901-5034-0
GT5-2428/F4-5PCF(70)	AP105-GT5-2428/F4-5P-ID	CL901-5035-2
	AP105-GT5-2428/F4-5P-3C2V	CL901-5056-2
GT5-2428/F4-5SCF(70)	AP105-GT5-2428/F4-5S-ID	CL901-5036-5
	AP105-GT5-2428/F4-5S-3C2V	CL901-5057-5
GT5-2022/F4-5PCF(70)	AP105-GT5-2022/F4-5P-ID	CL901-5054-7
	AP105-GT5-2022/F4-5P	CL901-5052-1
	AP105-GT5-2022/F4-5P-18ID	CL901-5121-2
	AP105-GT5-2022/F4-5P-RG58	CL901-5105-6
GT5-2022/F4-5SCF(70)	AP105-GT5-2022/F4-5S-ID	CL901-5055-0
	AP105-GT5-2022/F4-5S	CL901-5053-4
	AP105-GT5-2022/F4-5S-18ID	CL901-5102-8
	AP105-GT5-2022/F4-5S-RG58	CL901-5106-9
G-1.6PCF(70)	AP105-G-1.6P	CL901-5041-5
GTA-0.7CF	AP105-GTA・B-0.7P	
GTB-0.7CF	AP105-GTA・B-0.7P	
GTA-1.6CF(70)	AP105-GTA・B-1.6P	CL901-5047-1
GTB-1.6CF(70)	AP105-GTA・B-1.6P	CL901-5047-1

● **Harnes Tool**

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.

- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.

- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
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- Входной контроль качества.
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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.

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Email: org@lifeelectronics.ru

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