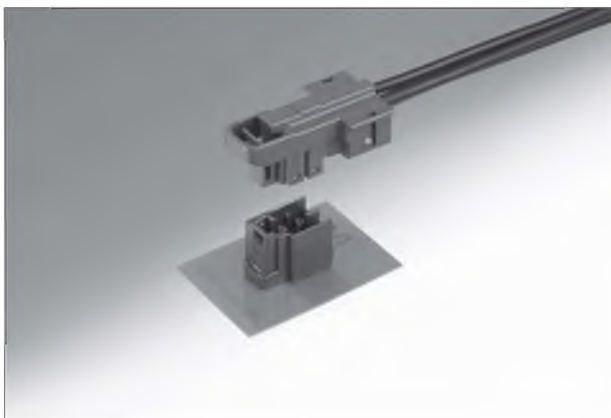


GT36 Series

— Board Straight, Cable Side Right Angle Coaxial Connector —



Features

- Supported frequency range DC to 2.5 GHz
- Board connector straight type/Cable connector right-angle type

Applications

Various antennas within the DC to 2.5 GHz frequency range

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Волгодда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Колпна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-96
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)66-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)62-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (6202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

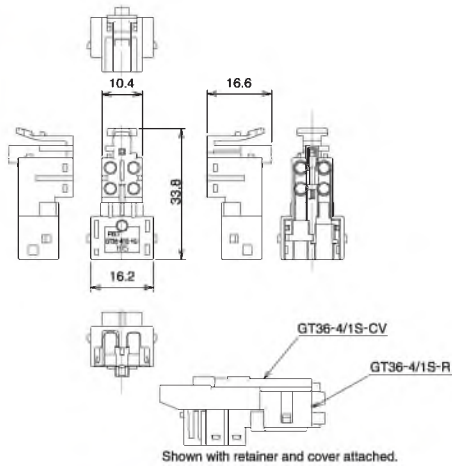
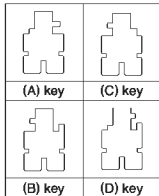
Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

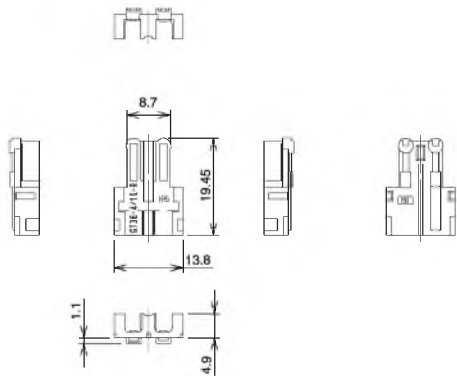
<https://hirose.nt-rt.ru/> || hes@nt-rt.ru

Housing for F Connector (4 Coaxial)



Part No.	HRS No.	Material	Color	Key position	Sales unit	RoHS
GT36-4/1S-HU(A)-A	786-0065-0	PBT	Brown	(A)	1	○
GT36-4/1S-HU(B)-A	786-0066-2		Green	(B)		
GT36-4/1S-HU(C)-A	786-0067-5		Blue	(C)		
GT36-4/1S-HU(D)-A	786-0068-8		Black	(D)		

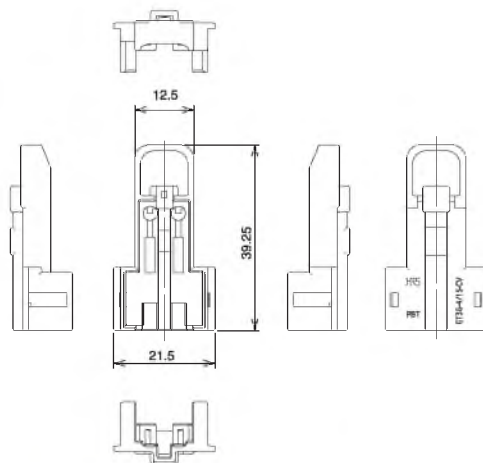
Retainer for F Connector



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT36-4/1S-R-A	786-0069-0	PBT	Light gray	1	○

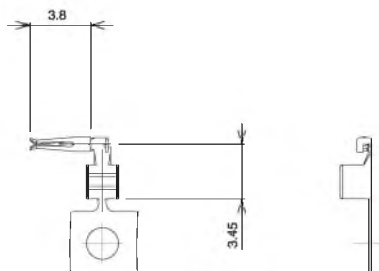
GT5
GT13
GT16
GT19
GT21
GT36
GT43
GT17
GT32
GT25
KM32
ZE05
ZG012
HH-300
ZG04W
R20719
FX26
DF40
DF40G
FH28K
FH52K
FH65
FH40
FH35
FH07

■ Cover for F Connector



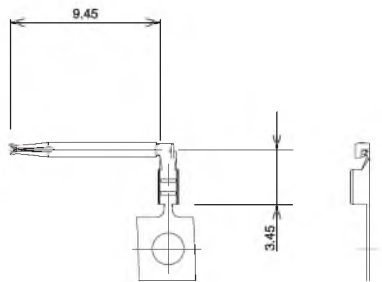
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT36-4/1S-CV-A	786-0070-0	PBT	Dark gray	1	○

■ Center Terminal for F Connector (Short)



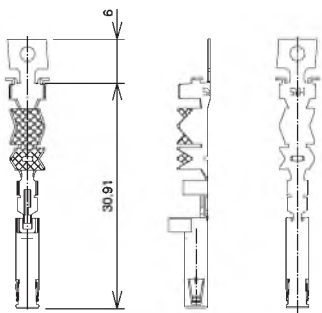
Part No.	HRS No.	Material / Finish or color	Applicable wire	Sales unit	RoHS
GT36A-2022SCF	786-0028-3	Center terminal : Phosphor bronze /Tin plating	2.5D-2V	12,000 pcs/reel	○
GT36-2428SCF	786-0001-7		1.5D-2V	13,000 pcs/reel	

Center Terminal for F Connector (Long)



Part No.	HRS No.	Material / Finish or color	Applicable wire	Sales unit	RoHS
GT36-2428SCF(A)	786-0010-8	Center terminal : Phosphor bronze /Tin plating	1.5D-2V	9,000 pcs/reel	○
GT36-30SCF(ID)(A)	786-0042-4		1.5C-2V (single wire)	12,000 pcs/reel	

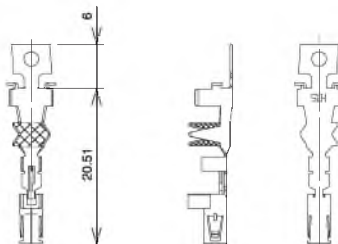
Outer Terminal for F Connector (Long)



Part No.	HRS No.	Material / Finish or color	Applicable wire	Sales unit	RoHS
GT36-1.6-2.9SCF(A)-B	786-0114-0	Insulator : PBT/Dark gray Outer terminal : Brass/Tin plating	1.5D-2V	6,500 pcs/reel	○

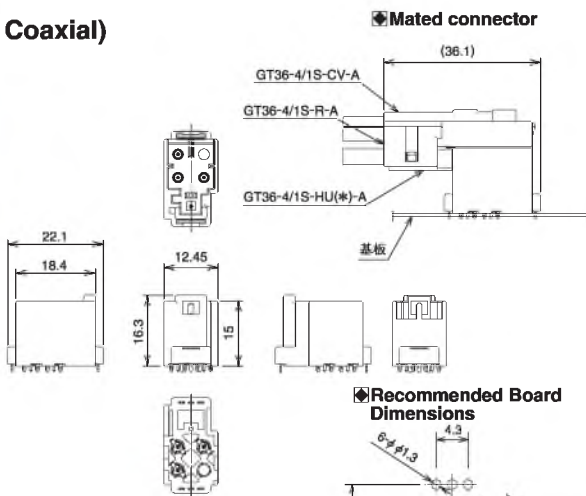
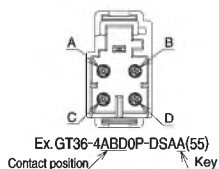
GT5
GT13
GT16
GT19
GT21
GT36
GT43
GT17
GT32
GT25
KM32
ZE05
ZG012
HM-300
ZE04W
R207B
FX26
DF40
DF10GB
FH28K
FH52K
FH65
FH40
FH35
FH67

Outer Terminal for F Connector (Short)



Part No.	HRS No.	Material / Finish or color	Applicable wire	Sales unit	RoHS
GT36-3.3-3.8SCF	786-0005-8	Insulator : PBT/Dark gray	2.5D-2V	5,000 pcs/reel	○
GT36-1.6-2.9SCF	786-0003-2	Outer terminal : Brass/Tin plating	1.5D-2V	3,000 pcs/reel	

Board Connector (4 Coaxial)



Recommended Board Dimensions

Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT36-4ABD0P-DSAA(55)	786-0011-0 55	PA	Brown	200 pcs/reel	○
GT36-4A0P-DSAC(55)	786-0012-3 55		Blue		
GT36-4D0P-DSAC(55)	786-0013-6 55		Green		
GT36-4BD0P-DSAB(55)	786-0014-9 55				

*Applicable board thickness: T = 0.8 mm.

◆ Crimping Tools

Please ask your Hirose Electric account representative for a user manual.

Automatic Crimping Machine



Part No. CM-105C

Photo for
reference only.
Subject to change.

Specifications

Item	Specifications	Remarks
Press capacity	1.5tons	
Stroke length	30mm	
Number of strokes	200spm (50Hz)	200spm (60Hz)
Weight	75kg	
Motor	0.2kW	AC100V
Crimping speed	2,000-4,000/H	

*Terminal crimp height setting tables are available for each cable type.

Please contact your nearest Hirose Electric account representative.

*Applicator required for each cable.

Applicator (for Mounting to Automatic Crimping Machines)

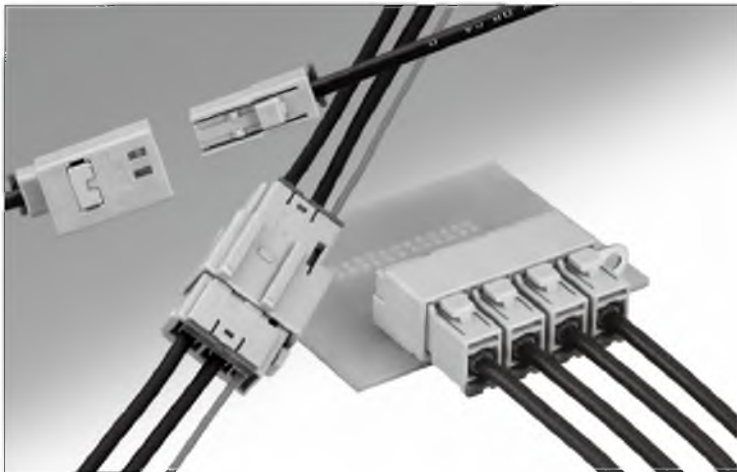
Contact Product No.	Contact HRS No.	Tool No.	Tool HRS No.
GT36A-2022SCF	786-0028-3	AP105-GT36A-2022S	901-5220-4
GT36-2428SCF	786-0001-7	AP105-GT36-2428S	901-5222-0
GT36-2428SCF(A)	786-0010-8	AP105-GT36-2428S(A)	901-5212-6
GT36-30SCF(ID)(A)	786-0042-4	AP105-GT36-30SI(A)	901-5225-8
GT36-3.3-3.8SCF	786-0005-8	GT36-3338S/CK-AD	902-5113-0
GT36-1.6-2.9SCF	786-0003-2	GT36-1629S/CK-AD	902-5116-9
GT36-1.6-2.9SCF(A)	786-0004-5	GT36-1629S(A)/CK-AD	902-5112-8

Please refer to our cable termination procedure manual for performing terminations.

GT13 Series

— Compact Coaxial Cable Connectors —

〈In-line type, Board type〉



■ Features

● Cost performance:

Signal wires and shield wires can be crimped in one step.

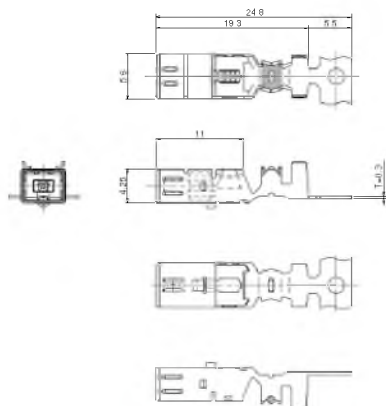
● Space-saving design

Smaller than GT5 Series.

■ Applications

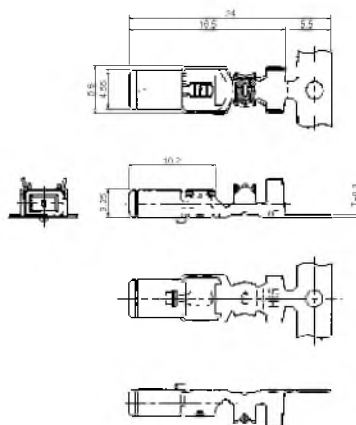
For car TV, radio antenna, etc.

F Terminal



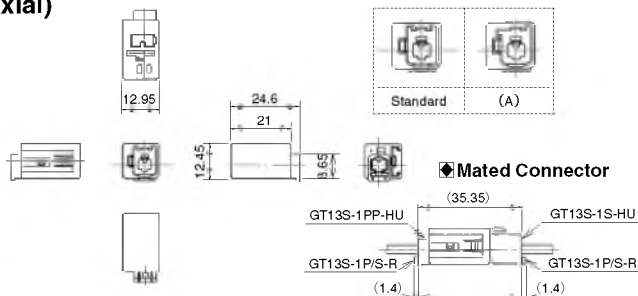
Part No.	HRS No.	Material / Finish or color	Conductor size	Insulator outer diameter	Jacket outer diameter	Sales unit	RoHS
GT13-2428/1.6-2.9SCF(55)	763-0001-3 55	Insulator : PBT/Dark gray Center terminal : Copper alloy /Tin plating Outer terminal : Copper alloy /Tin plating	AWG#24~28	φ1.5~2.0	φ2.7~3.4	3,000 pcs/reel	○
GT13-30/1.6-2.9SCF(55)	763-0012-0 55		AWG#30				
GT13-2428/F4-5SCF(55)	763-0051-1 55		AWG#24~28	φ3.0~3.6	φ4.6~5.0	2,200 pcs/reel	
GT13-30/F4-5SCF(55)	763-0067-1 55		AWG#30				

M Terminal



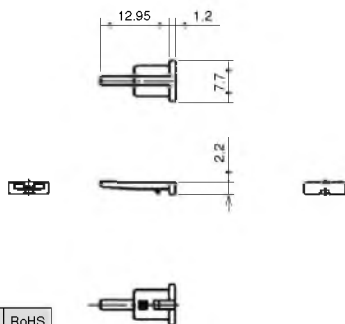
Part No.	HRS No.	Material / Finish or color	Conductor size	Insulator outer diameter	Jacket outer diameter	Sales unit	RoHS
GT13-2428/1.6-2.9PCF(70)	763-0002-6 70	Insulator : PBT/Dark gray Center terminal : Copper alloy /Tin plating Outer terminal : Copper alloy /Tin plating	AWG#24~28	φ1.5~2.0	φ2.7~3.4	4,000 pcs/reel	○
GT13-30/1.6-2.9PCF(70)	763-0041-8 70		AWG#30				
GT13-2428/F4-5PCF(70)	763-0054-0 70		AWG#24~28	φ3.0~3.6	φ4.6~5.0	2,200 pcs/reel	
GT13-30/F4-5PCF(70)	763-0066-9 70		AWG#30				

M Housing (1 Coaxial)



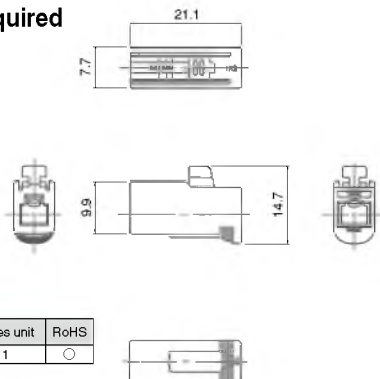
Part No.	HRS No.	Material / Finish	Color	Key position	Sales unit	RoHS
GT13S-1PP-HU	763-0030-1	Housing : PBT	Light gray	Standard	1	○
GT13S-1PP-HU(A)	763-0031-4	Ground terminal : Copper alloy/Tin plating	Brown	(A)		
GT13SN-1PP-HU	763-0006-0 00	Housing : PBT, bracket N type Ground terminal : None	Black	Standard		

Retainer



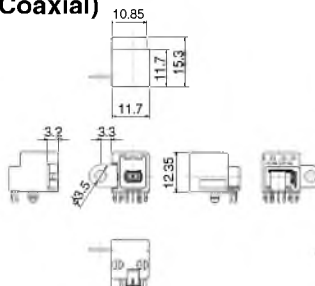
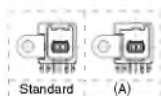
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13S-1P/S-R	763-0033-0	PBT	Dark gray	1	○

F Housing (1 Coaxial) Retainer not required

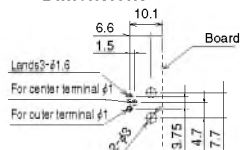


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13RM-1S-HU	763-0099-8	PBT	Light gray	1	○

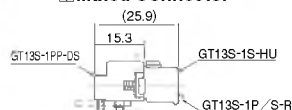
■ Board Mount type (1 Coaxial)



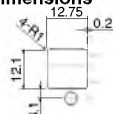
◆ Recommended Board Dimensions



◆ Mated Connector



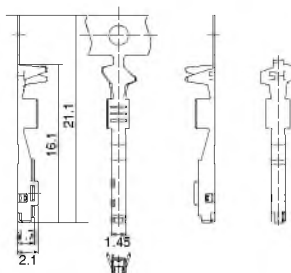
◆ Recommended Panel Dimensions



Part No.	HRS No.	Material / Finish	Color	Key position	Sales unit	RoHS
GT13S-1PP-DS	763-0027-7	Housing : PBT Center terminal : Copper alloy / Tin plating Outer terminal : Copper alloy / Tin plating	Light gray	Standard	1	○
GT13S-1PF-DS(A)	763-0028-0	Bracket hardware : Copper alloy / Tin plating	Brown	(A)		

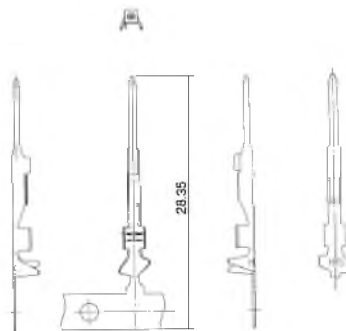
GT13SC Series

■ F Connector Power Supply Terminal



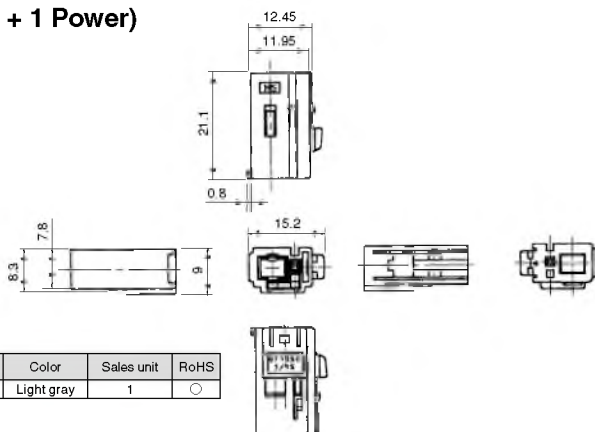
Part No.	HRS No.	Material	Finish	Conductor size	Insulator outer diameter	Sales unit	RoHS
GT10A-2022SCF	760-0014-6	Copper alloy	Tin plating	AWG#20~22	φ2.0 or less	8,000 pcs/reel	○

■ M Connector Power Supply Terminal



Part No.	HRS No.	Material	Finish	Conductor size	Insulator outer diameter	Sales unit	RoHS
GT10SC-2022PCF	760-0016-1	Copper alloy	Tin plating	AWG#20~22	φ1.5~2.0	7,000 pcs/reel	○
GT10A-2022PCF	760-0015-9				φ2.0 or less	10,000 pcs/reel	

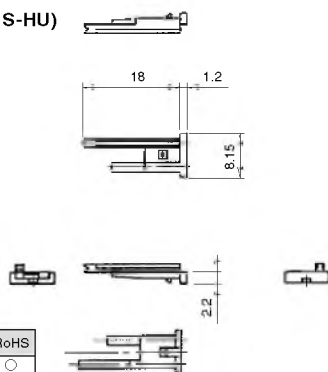
■ F Housing (1 Coaxial + 1 Power)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-1/1S-HU	763-0010-4	PBT	Light gray	1	○

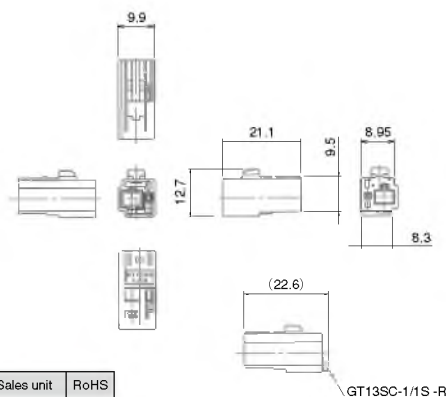
*GT10A-2022SCF is the power supply terminal.

● Retainer (Used with : GT13SC-1/1S-HU, GT13SS-1/1S-HU)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-1/1S-R	763-0011-7	PBT	Dark gray	1	○

■ F Housing (1 Coaxial + 1 Power)

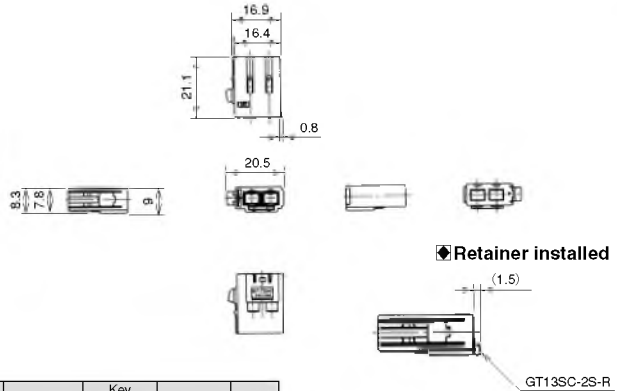


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SS-1/1S-HU	763-0093-1	PBT	Light gray	1	○

*GT10A-2022SCF is the power supply terminal.

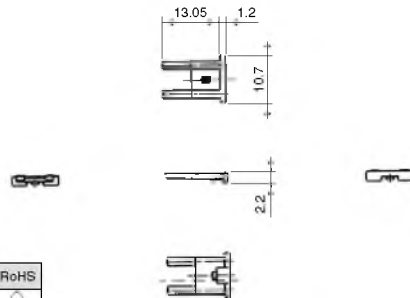
◆ Retainer installed

■ F Housing (2 Coaxial)



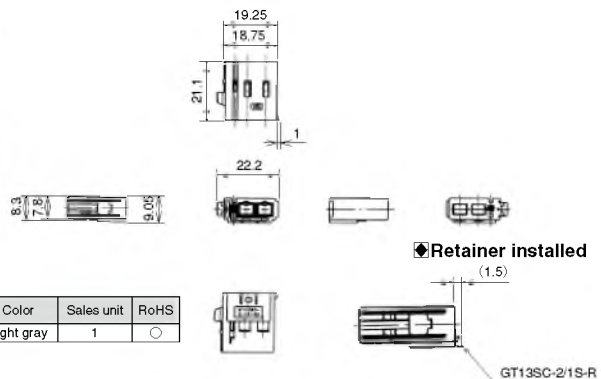
Part No.	HRS No.	Material	Color	Key position	Sales unit	RoHS
GT13SC-2S-HU	763-0014-5	PBT	Light gray	Standard	1	○

● Retainer (Used with : GT13SC-2S-HU, GT13SCN-2PP-HU, GT13SCH-2PP-HU)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-2S-R	763-0015-8	PBT	Dark gray	1	○

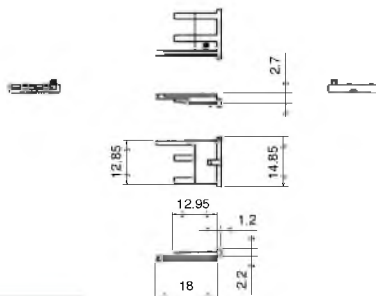
■ F Housing (2 Coaxial + 1 Power)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-2/1S-HU	763-0016-0	PBT	Light gray	1	○

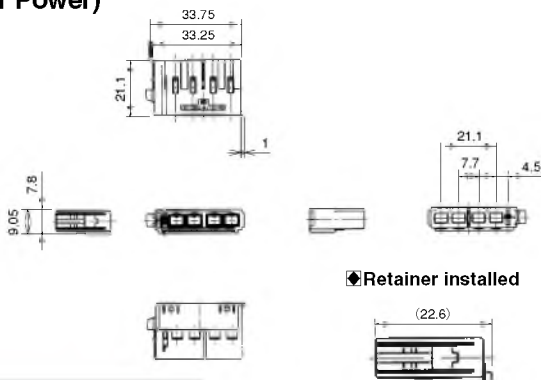
*GT10A-2022SCF is the power supply terminal.

● Retainer (for GT13SC-2/1-HU only)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-2/1S-R	763-0017-3	PBT	Dark gray	1	○

■ F Housing (4 Coaxial + 1 Power)

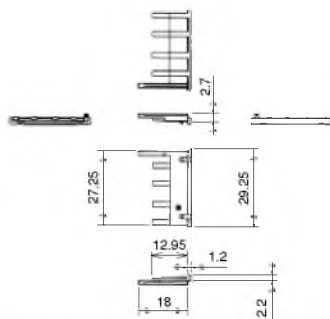


◆ Retainer installed

Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-4/1S-HU	763-0021-0	PBT	Light gray	1	○
GT13SC-4/1S-HU(A)	763-0022-3		Brown		

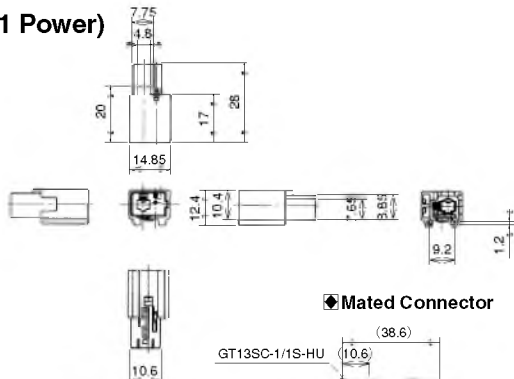
*GT10A-202SCF is the power supply terminal.

● Retainer (for GT13SC-4/1S-HU only)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-4/1S-R	763-0023-6	PBT	Dark gray	1	○

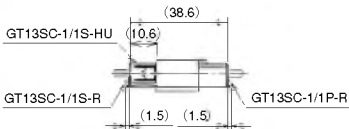
■ M Housing (1 Coaxial + 1 Power)



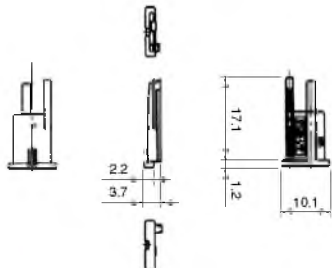
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SCN-1/1PP-HU	763-0036-8	PBT	Light gray	1	○

*GT10SC-2022PCF or GT10A-2022PCF is the power supply terminal.

◆ Mated Connector

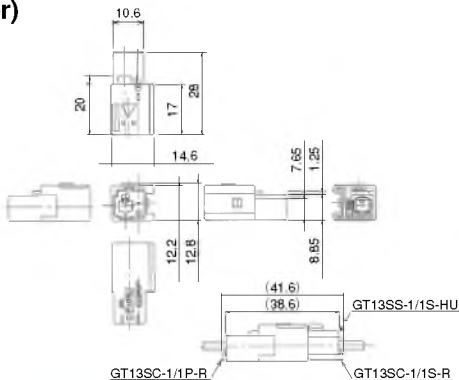


● Retainer



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-1/1P-R	763-0039-6	PBT	Dark gray	1	○

■ M Housing (1 Coaxial + 1 Power)

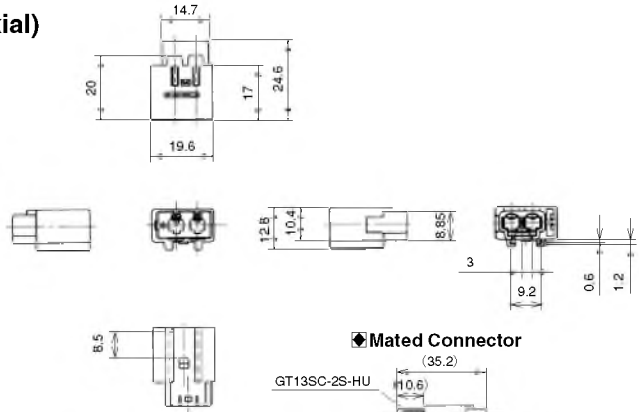


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SSN-1/1PP-HU	763-0092-9	PBT	Light gray	1	○

*GT10SC-2022PCF or GT10A-2022PCF is the power supply terminal.

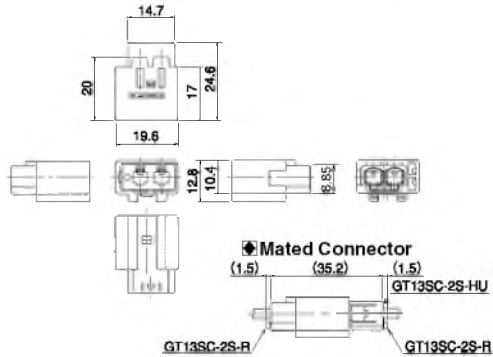
◆ Mated Connector

M Housing (2 Coaxial)



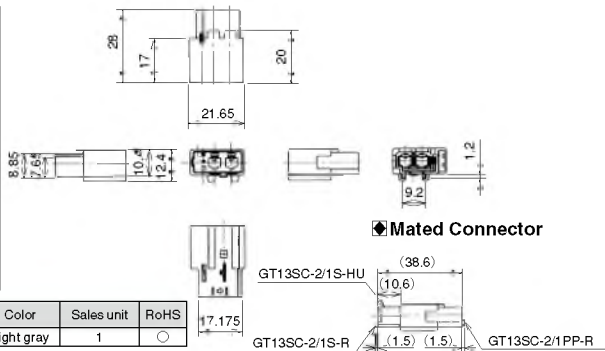
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SCN-2PP-HU	763-0046-1	PBT	Light gray	1	○

M Housing (2 Coaxial)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SCH-2PP-HU	763-0072-1	PBT	Light gray	1	○

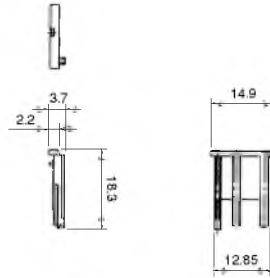
M Housing (2 Coaxial + 1 Power)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SCN-2/1PP-HU	763-0038-3	PBT	Light gray	1	○

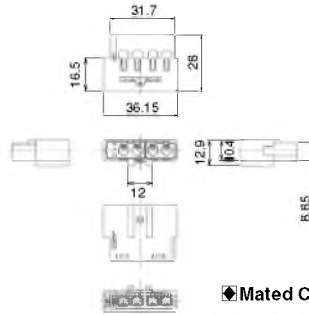
*GT10SC-2022PCF or GT10A-2022PCF is the power supply terminal.

● Retainer (for GT13SCN-2/1PP-HU only)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-2/1PP-R	763-0040-5	PBT	Dark gray	1	○

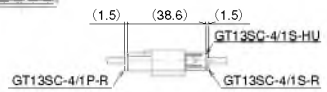
■ M Housing (4 Coaxial + 1 Power)



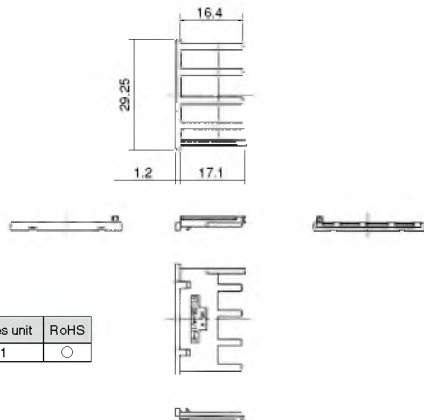
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SCH-4/1PP-HU	763-0060-2	PBT	Light gray	1	○

*GT10SC-2022PCF or GT10A-2022PCF is the power supply terminal.

◆ Mated Connector

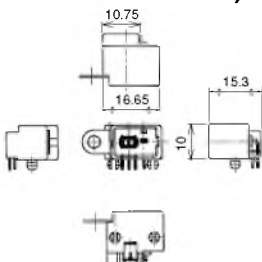


● Retainer

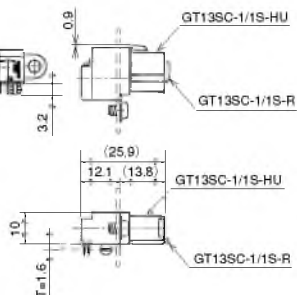


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SC-4/1P-R	763-0061-5	PBT	Dark gray	1	○

■ Board Mount type (1 Coaxial + 1 Power)

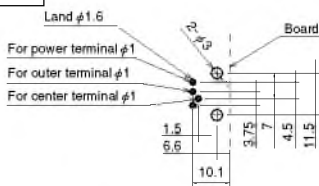


◆ Mated Connector

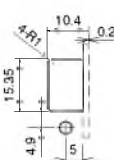


Part No.	HRS No.	Material / Finish or color	Sales unit	RoHS
GT13SC-1/1PP-DS(70)	763-0009-5 70	Housing : PBT/Light gray Center terminal : Copper alloy /Tin plating Outer terminal : Copper alloy /Tin plating Power terminal : Copper alloy /Tin plating Bracket hardware : Copper alloy / Tin plating	1	○

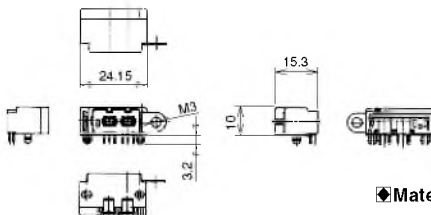
◆ Recommended Board Dimensions



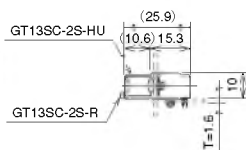
◆ Recommended Panel Dimensions



■ Board Mount type (2 Coaxial)

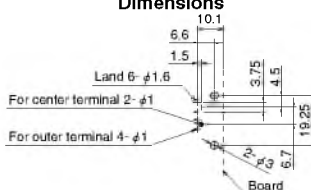


◆ Mated Connector

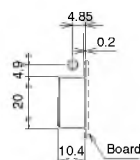


Part No.	HRS No.	Material	Color	Key position	Sales unit	RoHS
GT13SC-2PP-DS(71)	763-0013-2 71	Housing : PBT Center terminal : Copper alloy /Tin plating Outer terminal : Copper alloy /Tin plating Bracket hardware : Copper alloy / Tin plating	Light gray	Standard	1	○

◆ Recommended Board Dimensions



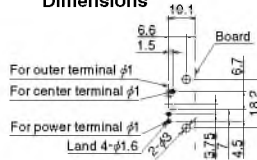
◆ Recommended Panel Dimensions



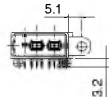
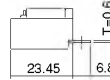
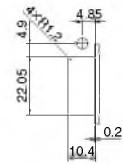
Board Mount type (2 Coaxial + 1 Power)



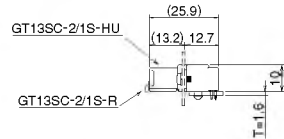
Recommended Board Dimensions



Recommended Panel Dimensions

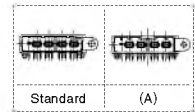
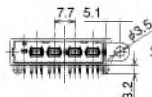
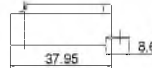


Mated Connector

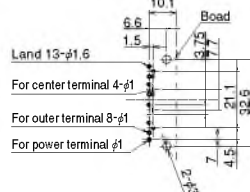


Part No.	HRS No.	Material / Finish or color	Sales unit	RoHS
GT13SC-2/1P-DS(70)	763-0018-6 70	Housing: PBT/Light gray Center terminal: Copper alloy / Tin plating Outer terminal: Copper alloy / Tin plating Power terminal: Copper alloy / Tin plating Bracket hardware: Copper alloy / Tin plating	1	○

Board Mount type (4 Coaxial + 1 Power)

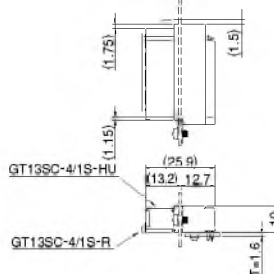


Recommended Board Dimensions

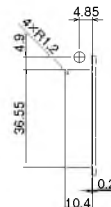


Part No.	HRS No.	Material	Color	Key position	Sales unit	RoHS
GT13SC-4/1P-DS(70)	763-0019-9 70	Housing: PBT Center terminal: Copper alloy / Tin plating Outer terminal: Copper alloy / Tin plating Power terminal: Copper alloy / Tin plating Bracket hardware: Copper alloy / Tin plating	Light gray	Standard	1	○
GT13SC-4/1P-DS(A)(70)	763-0020-8 70		Brown	(A)		

Mated Connector



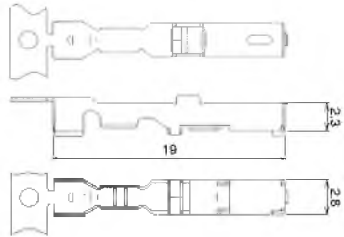
Recommended Panel Dimensions



GT13SH Series

Power Supply Terminals

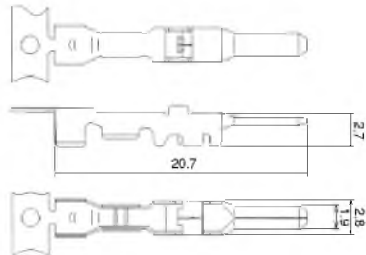
F Connector Terminals



Part No.	HRS No.	Material	Finish	Conductor size	Jacket outer diameter	Sales unit	RoHS
GT7-2022SCF(70)	757-0001-1 70	Copper alloy	Tin plating	AWG#20~22	φ1.4~2.4	5,000 pcs/reel	○
GT7A-2022SCF(70)	757-0003-7 70				φ2.6~3.1	3,000 pcs/reel	

Note 1 : This product is sold in units of reels. (See the table above for number of pcs per reel.)
Note 2 : This product cannot be used with housings from other manufacturers.

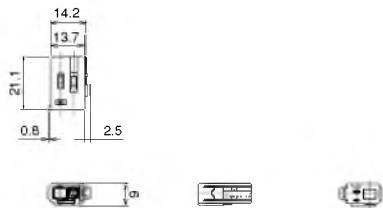
M Connector Terminals



Part No.	HRS No.	Material	Finish	Conductor size	Jacket outer diameter	Sales unit	RoHS
GT7-2022PCF(70)	757-0002-4 70	Brass	Tin plating	AWG#20~22	φ1.4~2.4	5,000 pcs/reel	○
GT7A-2022PCF(70)	757-0004-0 70				φ2.6~3.1	3,000 pcs/reel	

Note 1 : This product is sold in units of reels. (See the table above for number of pcs per reel.)
Note 2 : This product cannot be used with housings from other manufacturers.

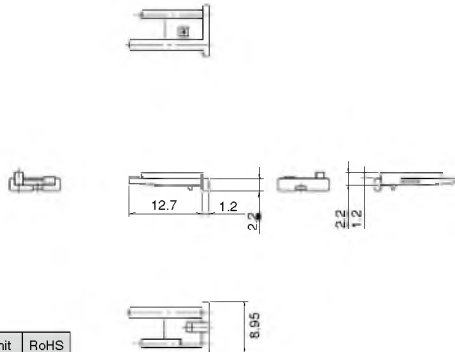
F Housing (1 Coaxial + 1 Power)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-1/S-HU	763-0048-7	PBT	Light gray	1	○
GT13SH-1/S-HU(A)	763-0059-3		Brown		

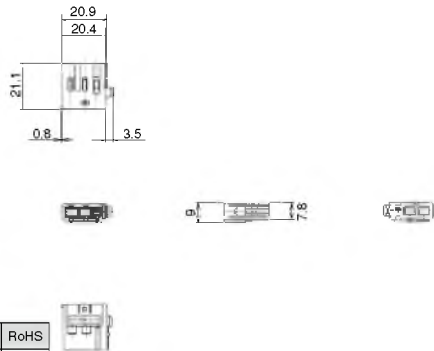
*GT7-2022SCF (70) or GT7A-2022SCF (70) is the power supply terminal.

● Retainer



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-1/1S-R	763-0049-0	PBT	Dark gray	1	○

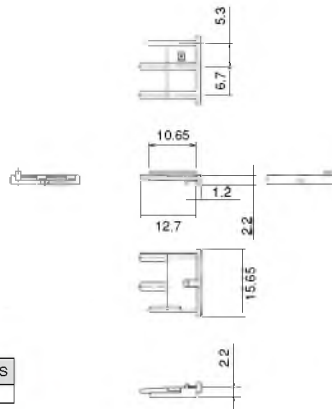
■ F Housing (2 Coaxial + 1 Power)



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-2/1S-HU	763-0065-6	PBT	Light gray	1	○
GT13SHB-2/1S-HU	763-0131-0				

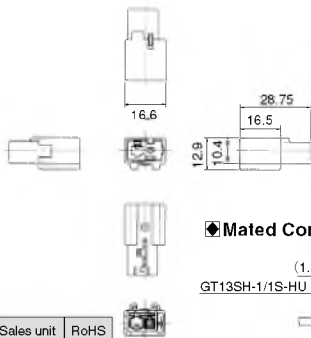
*GT7-2022SCF (70) or GT7A-2022SCF (70) is the power supply terminal.

● Retainer



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-2/1S-R	763-0064-3	PBT	Dark gray	1	○

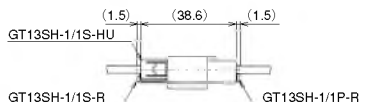
■ M Housing (1 Coaxial + 1 Power)



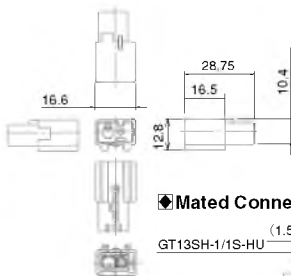
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-1/1PP-HU	763-0055-2	PBT	Light gray	1	○

*GT7-2022SPCF (70) or GT7A-2022PCF (70) is the power supply terminal.

◆ Mated Connector



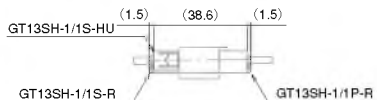
■ M Housing (1 Coaxial + 1 power)



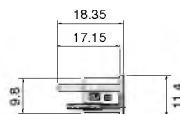
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SHN-1/1PP-HU	763-0078-8	PBT	Light gray	1	○

*GT7-2022SPCF (70) or GT7A-2022PCF (70) is the power supply terminal.

◆ Mated Connector

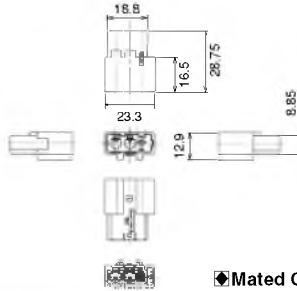


● Retainer



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-1/1P-R	763-0056-5	PBT	Dark gray	1	○

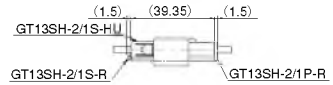
■ M Housing (2 Coaxial + 1 Power)



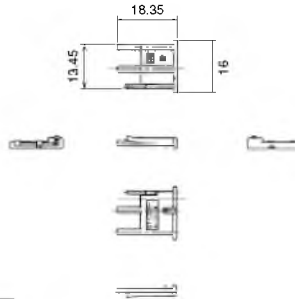
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-2/1P-HU	763-0076-2	PBT	Light gray	1	○

*GT7-2022PCF (70) or GT7A-2022PCF (70) is the power supply terminal.

◆ Mated Connector



● Retainer

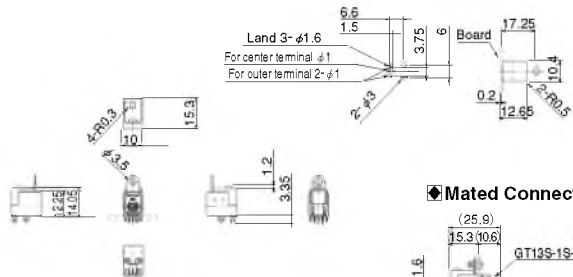


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT13SH-2/1P-R	763-0077-5	PBT	Dark gray	1	○

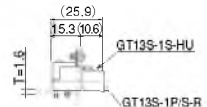
■ Board Mount type (1 Coaxial)

◆ Recommended Board Dimensions

◆ Recommended Panel Dimensions

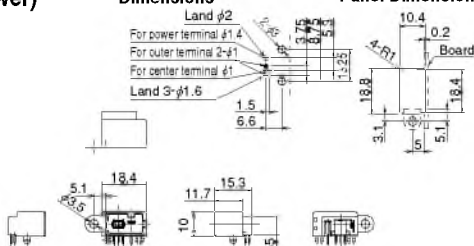


◆ Mated Connector

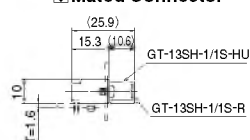


Part No.	HRS No.	Material / Finish or color	Sales unit	RoHS
GT13SHA-1PP-DS	763-0062-8	Housing : PBT / Light gray Center terminal : Copper alloy / Tin plating Outer terminal : Copper alloy / Tin plating Bracket hardware : Copper alloy / Tin plating	1	○

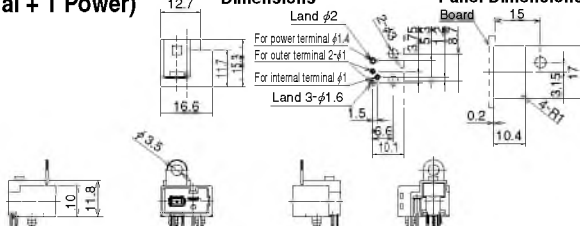
Recommended Panel Dimensions



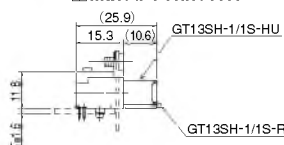
◆ **Mated Connector**



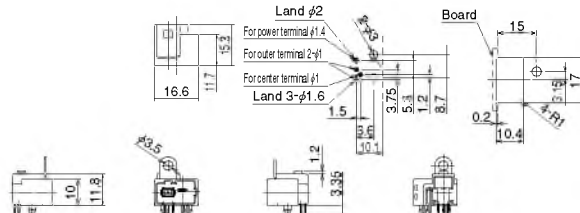
Recommended Panel Dimensions



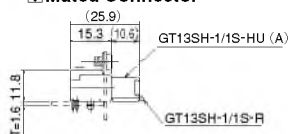
◆ Mated Connector



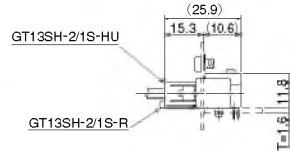
◆ Recommended Panel Dimensions



 Mated Connector



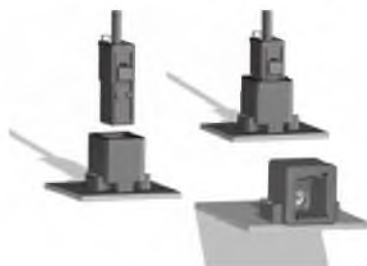
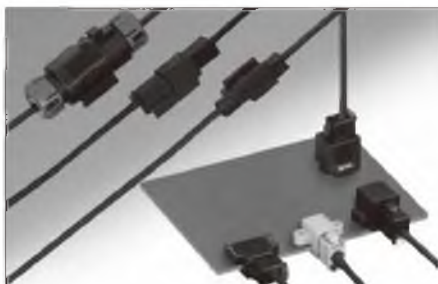
GT5 GT13 GT16 GT19 GT23 GT36 GT43 GT17 GT32 GT25 KM32 ZEUS Z002 W020 Z040 V052 FX26 DF40 DF48 F02K F02N F03S F040 F045 F072



37

GT16G Series

— 6 GHz Compatible Antenna Connector —



■Features

- **Excellent high frequency performance**
V.S.W.R. is 1.5 or less (DC to 6 GHz)
- **Satisfies rigorous test conditions for automotive devices.**
- **Robust lock design provides a tactile click.**
-Lock strength : 98N Min.
- **Many variations**
 - Board connectors :
SMT type, mid-mount type, lead reflow type
 - In-line connectors :
Retainer-less type, double latching type, bracket type, waterproof type

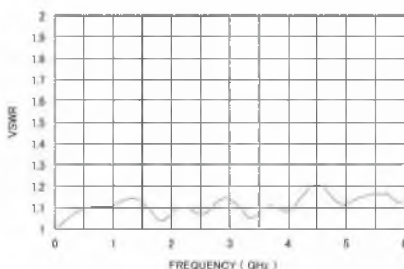
●RoHS compliant

◆Applications

Automotive WiFi/Bluetooth, V2X, DSRC, etc.

■High Frequency Performance

- **Excellent high frequency performance with a V.S.W.R. of 1.5 or less in all frequencies between DC and 6 GHz.**
- **Proven track record as connector for automotive ETC and automotive WiFi/Bluetooth.**



*Data taken based on GT16GH-1P-DSA and GT16G-1SHU(24).

■Product Specifications

Ratings	Rated current : 1A		Rated voltage : 250V AC	
	Operating temperature range : -30°C to 105°C		Storage temperature range : -40°C to 105°C	
Item	Specifications		Conditions	
1. Insulation Resistance	100MΩ min		Measured at 500V DC	
2. Withstanding Voltage	There shall be no flashover or dielectric breakdown.		650V AC applied for 1 minute.	
3. Contact resistance	Center contact : 30mΩ max, Outer contact : 60mΩ max		Measured at 1A DC	
4. High Frequency Characteristics	V.S.W.R. is 1.5 or less		Measured in a range between 0 and 6 GHz, Characteristic impedance: 50Ω	
5. Heat resistance	Center contact : 60mΩ max, Outer contact : 120mΩ max		105°C for 300 hours	
6. Low temperature resistance	Center contact : 60mΩ max, Outer contact : 120mΩ max		-40°C, 120 hours	
7. Vibration resistance	There shall be no electrical discontinuity of 10 μs or more.		Frequency : 20-200Hz, Acceleration : 43.1m/s ² in 3 directions for 3 hours.	
8. Humidity resistance	Insulation resistance : 100MΩ min		Left unattended at a temperature of 60°C, and humidity of 90 to 95% for 96 hours.	
9. Temperature cycles	Center contact : 60mΩ max, Outer contact : 120mΩ max. There shall be no damage, cracks or loosened parts.		Temperature -40°C → Room temperature → 105°C → Room temperature Time : 30 min → 5 min → 30 min → 5 min, 1000 cycles	
10. Mating durability	Center contact : 60mΩ max, Outer contact : 120mΩ max		30 mating cycles (insertion/extraction)	
11. Solder heat resistance	There shall be no deformation or excessive play of contacts or other parts.		-Reflow : Perform twice at the specified temperature profile. -Soldering iron : 350°C, 10 sec max.	

Product Number Structure

Refer to the chart below to determine product specifications from the product number.

●Board Connector/In-line Connector

GT 16G * - 1 P - H

① ② ③ ④ ⑤ ⑥

① Series name : GT	④ Contact type Board connector P : Pin header In-line connector S : Socket P : In-line plug PP : In-line plug with bracket P/S : Available for both male and female
② Series No : 16C, 16G, 5W	
③ Series Sub No : Serial No.	⑤ Product type Board connector H : Right angle DSA : Straight In-line connector HU : Housing R : Retainer
⑥ Pin-count : 1	

●Center Contact/Outer Contact

GT 16G * - 2428 SCF

① ② ③ ④ ⑤

① Series name : GT	④ Type category/Packaging type Center SCF : Socket crimp contact/reel PCF : Plug crimp contact/reel Outer shell SC : Socket crimp contact/piece PC : Plug crimp contact/piece
② Series No : 16G	
③ Series Sub No : Serial No.	
⑤ licable wire Center 2428 : AWG# 24 to 28 Outer/1.6-2.9 : 1.5D-2W or equivalent	

●Insulator/Contact Ferrule/Outer Ferrule

GT 16G - SC

① ② ③

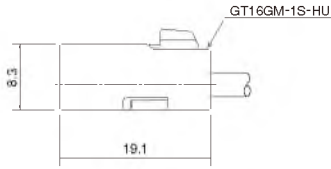
① Series name : GT	④ Part name SC : Female insulator PC : Male insulator FR : Contact ferrule 1.5 DHQS : Outer Ferrule
② Series No : 16G	

GT16G Series Mating Table

F Connector	M Connector	
GT16GM-1S-ASSY (Retainer-less type)	SMT type	GT16GMP-1P-H(55)
	Board mid-mount type	GT16GM-1P-H(55)
	In-line type	GT16GM-1P-ASSY
	In-line bracket type	GT16GMN-1PP-ASSY
GT16G-1S-ASSY GT16GT-1S-ASSY (Double latch type)	SMT type	GT16GD-1P-H(55)
		GT16GT-1P-H(55)
		GT16GH-1P-H
	Board mid-mount type	GT16G-1P-H(55)
		GT16GL-1P-H(55)D
		GT16GRL-1P-H(55)
GT16GW-1S-ASSY	Lead reflow type	GT16GH-1P-DSA
	In-line bracket type	GT16GT-1PP-ASSY
	Waterproof in-line type	GT16GW-1P-ASSY

■Harness Connector

●GT16GM-1S-ASSY



*Uses two insulators per termination.

■Housing/Insulator

Part	Housing	Insulator
Part No.	GT16GM-1S-HU	GT16G-SC
HRS No.	766-0033-9	766-0023-5
Material	PBT	PBT
Color	Black	Natural
Sales unit	1	1
RoHS	○	○
Dimensions		

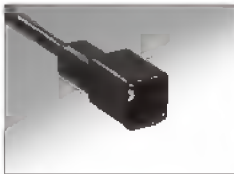
■Center Contact/Outer Contact

Part	Center Contact	Outer Contact
Part No.	GT16G-2428SCF	GT16GM-/1.6-2.9SC
HRS No.	766-0022-2	766-0025-0
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Applicable wire	AWG#24~28	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	1
RoHS	○	○
Dimensions		

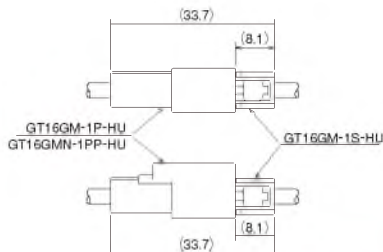
■Contact Ferrule/Outer Ferrule

Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

●GT16GM-1P-ASSY



●GT16GMN-1PP-ASSY



*Uses two insulators per termination.

■Housing/Insulator

Part	Housing		Insulator
Part No.	GT16GM-1P-HU	GT16GMN-1PP-HU	GT16G-PC
HRS No.	766-0050-8	766-0051-0	766-0047-3
Material	PBT	PBT	PBT
Color	Black	Black	Natural
Sales unit	1	1	1
RoHS	○	○	○
Dimensions			

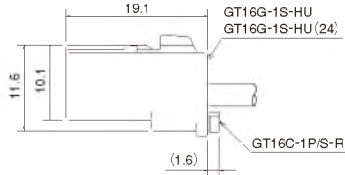
■Center Contact/Outer Contact

Part	Center Contact	Outer Contact
Part No.	GT16G-2428PCF	GT16G-/1.6-2.9PC
HRS No.	766-0046-0	766-0048-6
Material	Brass	Phosphor bronze
Finish	Tin plating	Tin plating
Applicable wire	AWG#24~28	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	1
RoHS	○	○
Dimensions		

■Contact Ferrule/Outer Ferrule

Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

●GT16G-1S-ASSY



*Uses two insulators per termination.

■Housing/Insulator/Retainer

Part	Housing		Insulator	Retainer
Part No.	GT16G-1S-HU	GT16G-1S-HU(24)	GT16G-SC	GT16C-1P/S-R
HRS No.	766-0026-3	766-0026-3-24	766-0023-5	766-0011-6
Material	PBT	PBT	PBT	PBT
Color	Light gray	Black	Natural	Dark gray
Sales unit	1	1	1	1
RoHS	○	○	○	○
Dimensions				

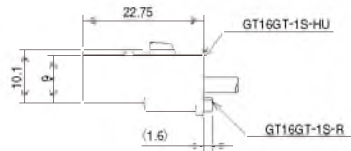
■Center Contact/Outer Contact

Part	Center Contact	Outer Contact
Part No.	GT16G-2428SCF	GT16G-/1.6-2.9SC
HRS No.	766-0022-2	766-0024-8
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Applicable wire	AWG#24~28	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	1
RoHS	○	○
Dimensions		

■Contact Ferrule/Outer Ferrule

Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

●GT16GT-1S-ASSY



*Uses two insulators per termination.

■Housing/Insulator/Retainer

Part	Housing	Insulator	Retainer
Part No.	GT16GT-1S-HU	GT16G-SC	GT16GT-1S-R
HRS No.	766-0098-4	766-0023-5	766-0099-7
Material	PBT	PBT	PBT
Color	Black	Natural	Natural
Sales unit	1	1	1
RoHS	○	○	○
Dimensions			

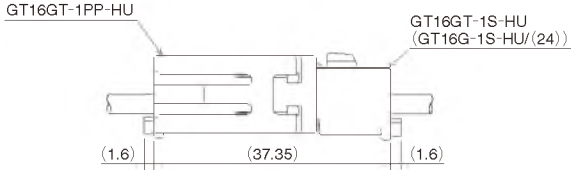
■Center Contact/Outer Contact

Part	Center Contact	Outer Contact
Part No.	GT16G-2428SCF	GT16G-/1.6-2.9SC
HRS No.	766-0022-2	766-0024-8
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Applicable wire	AWG#24~28	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	1
RoHS	○	○
Dimensions		

■Contact Ferrule/Outer Ferrule

Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

●GT16GT-1PP-ASSY



*Uses two insulators per termination.

■Housing/Insulator/Retainer

Part	Housing	Insulator	Retainer
Part No.	GT16GT-1PP-HU	GT16G-PC	GT16C-1P/S-R
HRS No.	766-0049-9	766-0047-3	766-0011-6
Material	PBT	PBT	PBT
Color	Black	Natural	Dark gray
Sales unit	1	1	1
RoHS	○	○	○
Dimensions			

■Center Contact/Outer Contact

Part	Center Contact	Outer Contact
Part No.	GT16G-2428PCF	GT16G-/1.6-2.9PC
HRS No.	766-0046-0	766-0048-6
Material	Brass	Phosphor bronze
Finish	Tin plating	Tin plating
Applicable wire	AWG#24~28	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	1
RoHS	○	○
Dimensions		

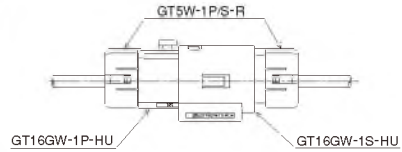
■Contact Ferrule/Outer Ferrule

Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

●GT16GW-1P-ASSY



●GT16GW-1S-ASSY



*Uses two insulators per termination.

■Housing/Insulator/Retainer

Part	Housing		Insulator		Retainer
Part No.	GT16GW-1P-HU	GT16GW-1S-HU	GT16G-PC	GT16G-SC	GT5W-1P/S-R
HRS No.	766-0077-4	766-0076-1	766-0047-3	766-0023-5	755-0028-5
Material	PBT	PBT/Silicon rubber	PBT	PBT	PBT/Silicon rubber
Color	Black	Black/White	Natural	Natural	Dark gray/ Right blue
Sales unit	1	1	1	1	1
RoHS	○	○	○	○	○
Dimensions					

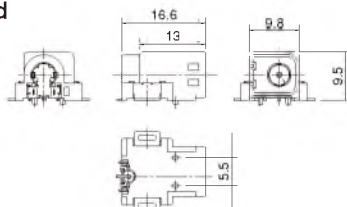
■Center Contact/Outer Contact

Part	Center Contact		Outer Contact	
Part No.	GT16G-2428PCF	GT16G-2428SCF	GT16G-/1.6-2.9PC	GT16G-/1.6-2.9SC
HRS No.	766-0046-0	766-0022-2	766-0048-6	766-0024-8
Material	Brass	Phosphor bronze	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating	Tin plating	Tin plating
Applicable wire	AWG#24~28	AWG#24~28	1.5D-2W or equivalent	1.5D-2W or equivalent
Sales unit	10,000 pcs/reel	10,000 pcs/reel	1	1
RoHS	○	○	○	○
Dimensions				

■Contact Ferrule/Outer Ferrule

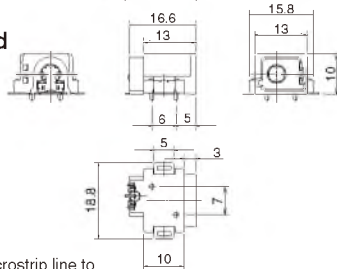
Part	Contact Ferrule	Outer Ferrule
Part No.	GT16G-FR	GT16G-1.5DHQS
HRS No.	766-0028-9	766-0027-6
Material	Phosphor bronze	Phosphor bronze
Finish	Tin plating	Tin plating
Sales unit	1	1
RoHS	○	○
Dimensions		

◆GT16GMP-1P-H (55)



Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GMP-1P-H(55)	766-0052-3 55	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators L, R	PPS	Natural		
		Shield plate	Phosphor bronze	Tin plating		
		Retention tab	Brass	Tin plating		

Technical drawing of a part with dimensions: 13.4, 2-R1.2MAX, 0.2, and 0.4.



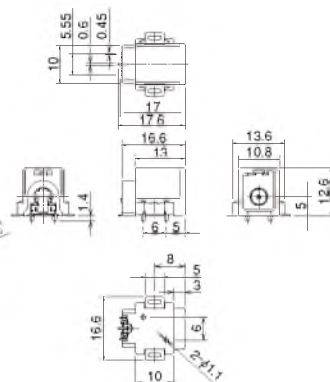
Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GD-1P-H(55)	766-0044-5 55	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators L, R	PPS	Natural		
		Shield plate	Phosphor bronze	Tin plating		
		Retention tab	Brass	Tin plating		

GT5
GT13
GT19
GT21
GT36
GT43
GT17
GT32
GT25
KM32
ZE05
ZG09J2
HH-H280
ZE064H
FH287K
FX26
DF40
DF40SL
FH28K
FH2K
FH65
FH40
FH63S
FH67

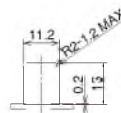
◆GT16GT-1P-H (55)



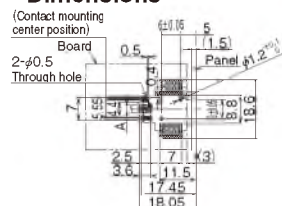
◆Dimensions



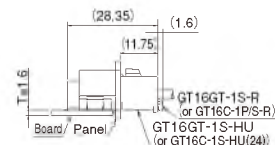
◆Recommended Panel Dimensions



◆Recommended Board Dimensions



◆Mated Connector



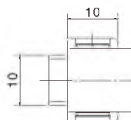
Note : Adjust dimension A of the microstrip line to satisfy 50Ω characteristic impedance.

Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GT-1P-H(55)	766-0104-5 55	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators L, R	PPS	Natural		
		Shield plate	Phosphor bronze	Tin plating		
		Retention tab	Brass	Tin plating		

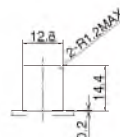
◆GT16GH-1P-H (Fixing Pin: Lead Reflow type)



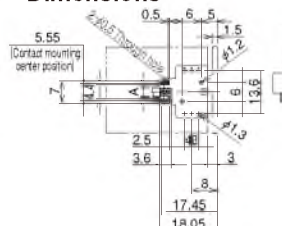
◆Dimensions



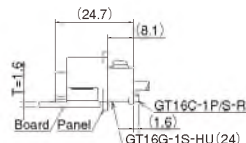
◆Recommended Panel Dimensions



◆Recommended Board Dimensions



◆Mated Connector



Note : Adjust dimension A of the microstrip line to satisfy 50Ω characteristic impedance.

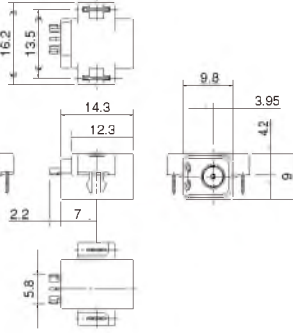
Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GH-1P-H	766-0118-0	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators L, R	PPS	Natural		
		Shield plate	Phosphor bronze	Tin plating		
		Retention tab	Brass	Tin plating		

●SMT type (mid-mount)

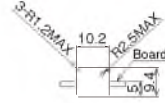
◆GT16GM-1P-H (55) (Fixing Pin: Lock Pin type)



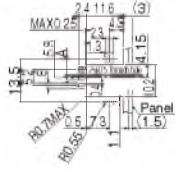
◆Dimensions



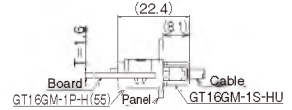
◆Recommended Panel Dimensions



◆Recommended Board Dimensions



◆Mated Connector



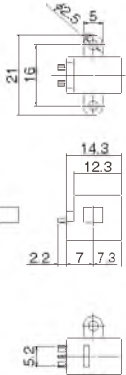
Note : Adjust dimension A of the microstrip line to satisfy 50Ω characteristic impedance.

Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GM-1P-H(55)	766-0032-6 55	Housing	PBT	Black	1	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators	PBT	Natural		
		Lock pin	Phosphor bronze	Tin plating		

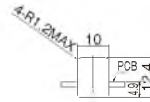
◆GT16G-1P-H (55) (Screw Fastening type)



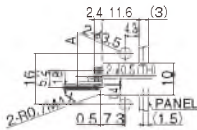
◆Dimensions



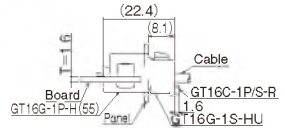
◆Recommended Panel Dimensions



◆Recommended Board Dimensions



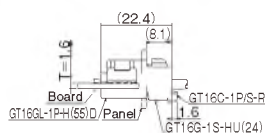
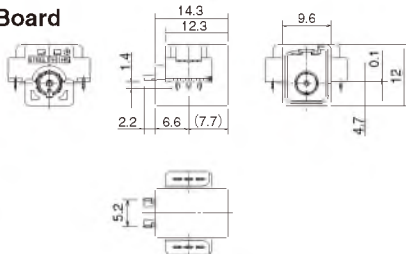
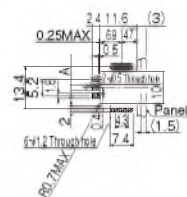
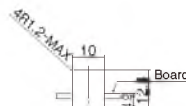
◆Mated Connector



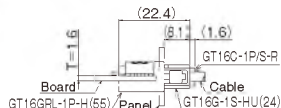
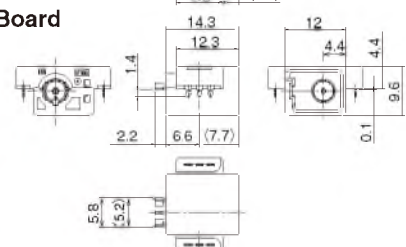
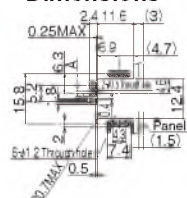
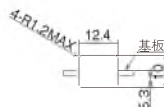
Note : Adjust dimension A of the microstrip line to satisfy 50Ω characteristic impedance.

Note : Use JIS B 1122 pan tapping screws Type 2.
Nominal diameter : 3mm, Length : 6mm.

Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16G-1P-H(55)	766-0021-0 55	Housing	PBT	Light gray	1	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators	PBT	Natural		



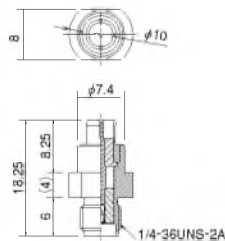
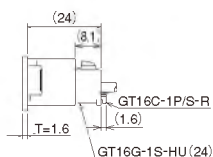
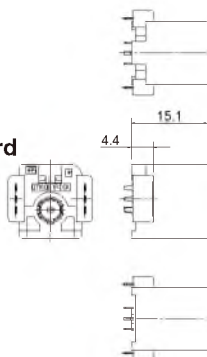
Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GL-1P-H(55)D	766-0103-2 55	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators	PPS	Natural		
		Metal reinforcement	Brass	Tin plating		



Part No.	HRS No.	Part	Material	Finish or color	Sales unit	RoHS
GT16GRL-1P-H(55)	766-0101-7 55	Housing	PPS	Black	200 pcs/reel	○
		Center Terminal	Phosphor bronze	Tin plating		
		Outer terminal	Phosphor bronze	Tin plating		
		Insulators	PPS	Natural		
		Metal reinforcement	Brass	Tin plating		

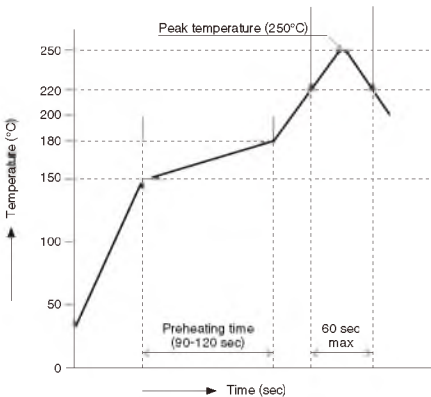
Technical drawing of a mechanical part showing dimensions:

- $\phi 16$, $\phi 0.9$, $\phi R0.3$
- 6×1.3 , $8 \times R1$
- 1.75 , 0.4 , 0.85 , 1.45 , 1.6 , 2 , 4.15 , 4.5 , 7
- 13.6 , $6 \times R0.6$



Note : The adapter does not have a lock so it can only be used for performance measurements.

◆Precautions for use

1. Recommended temperature profile	 [Conditions] 1. Peak temperature : 250°C 2. Heating unit : 220°C min, 60 sec max. 3. Preheating unit : 150 to 180°C for 90 to 120 sec 4. Number of cycles : 2 cycles max Note 1 : Temperatures show the surface temperature of the board near the connector lead part. Note 2 : If nitrogen reflow is used, mount the product at an oxygen concentration of no less than 1,000 [ppm]. Please contact us if your concentration will be below 1,000 [ppm].
2. Recommended hand soldering conditions	Soldering iron temperature : 340 ± 10°C Soldering time : 3 sec max
3. Recommended screen thickness : Aperture ratio (pattern area ratio)	Thickness : 0.15mm aperture ratio : 100%
4. Cleaning	Cleaning is not recommended. If the product must be cleaned, make sure to evaluate the outcome of its cleaning before use. (Cleaning may alter its mating/un-mating characteristics or resistance to environmental elements.)
5. Precautions	■ Be careful not to mate or un-mate the product without mounting it on the board. This may cause damage or deform the contacts. ■ Make sure not to support the board only by the connector. Implement other means to hold the board in place. ■ Be careful not to apply excessive prying forces when mating or un-mating as doing so may result in damage. ■ Do not apply flux when hand soldering as this will cause flux wicking on the connector.

●Crimping Tools

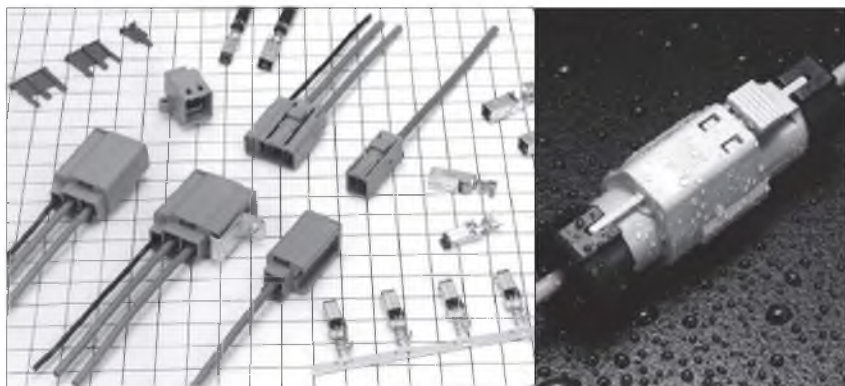
Applicable Connector		GT16GM-1S-ASS GT16G-1S-ASSY GT16GT-1S-ASSY GT16GW-1S-ASSY	GT16GM-1P-ASSY GT16GMN-1PP-ASSY GT16GT-1PP-ASSY GT16GW-1P-ASSY
Process 1.	Cable termination	Schleuniger MP257, etc. Crimping machine unit 105C type	Schleuniger MP257, etc. Crimping machine unit 105C type
2.	Center contact crimping	AP105-GT16G-2428S +	AP105-GT16G-2428P +
3.	Cable forming	Shield forming tool GT16G-1.5DHQS/CF-MD	Shield forming tool GT16G-1.5DHQS/CF-MD
4.	Inserting the outer ferrule	Outer ferrule insertion tool GT16G-1.5DHQS/PR-MD	Outer ferrule insertion tool GT16G-1.5DHQS/PR-MD
5.	Inserting the contact ferrule	Contact ferrule insertion tool GT16G-FR/PR-MD	Contact ferrule insertion tool GT16G-FR/PR-MD
6.	Attaching the insulator	Manual work	Manual work
7.	Inserting the outer shell	Insulator pushing tool GT16G-SC/PR-MD	—
8.	Caulking the outer shell	Hand press HOS-7 GT16G-1.6-2.9S/CK-MP +	Hand press HOS-7 GT16G-1.6-2.9S/CK-MP +
9.	Mounting the housing (retainer)	Manual work	Manual work
10.	Inspection	Inspection of high frequency characteristics Inspection of continuity/withstanding voltage Visual inspection	Inspection of high frequency characteristics Inspection of continuity/withstanding voltage Visual inspection

Please refer to our cable termination procedure manual for performing terminations.

GT5 Series

— Connectors for Coaxial Cables —

(In-line type, Board type, Hybrid type, Waterproof type)



■ Features

● Cost performance:

Labor costs can be kept low because signal wires and shield wires can be crimped in one step. Additionally, the cable assembly process is semi-automatic.

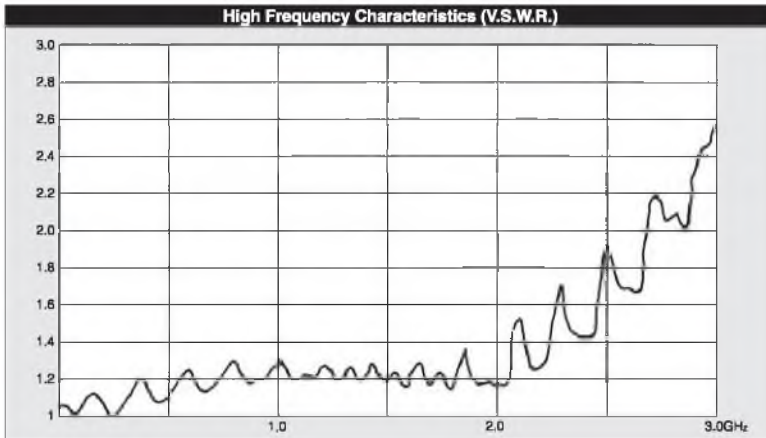
● Excellent high frequency performance

Please refer to V.S.W.R data on the following pages.

■ Applications

For car TV, radio antenna, etc.

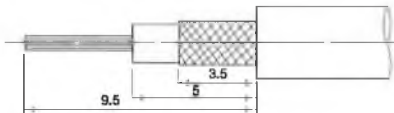
◆ TEST DATA (using 1.5D-2V Type cable)



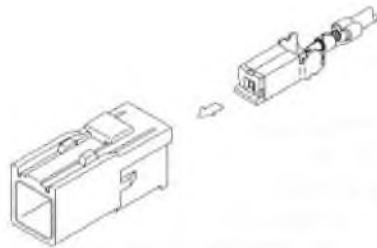
(Note) The above measurement data is for GT5-1S-HU and GT5-1PP-HU.

◆ Cable Assembly Instructions

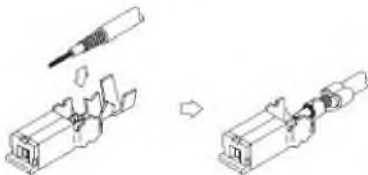
1. Strip the cable.



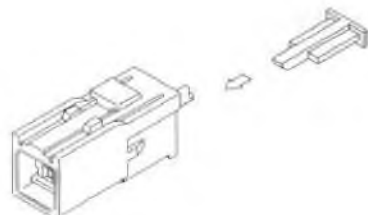
3. Insert the terminal into the housing. (Push it in until the housing lance latches.)



2. Crimp the cable to the terminal.

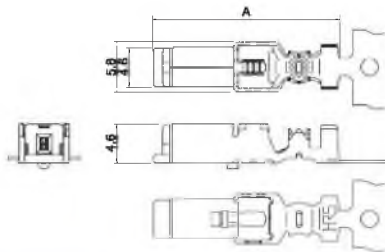


4. Attach the retainer (Push in the retainer until it locks.)



Terminal for Coaxial Cable

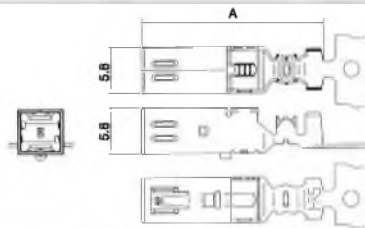
F Connector Terminals



Part No.	HRS No.	Material / Finish or color	Conductor size	Insulator outer diameter	Jacket outer diameter	A	Sales unit	RoHS
GT5-900/7-1.5SCF(70)	755-0065-1 70	Insulator : PBT/Dark gray Center terminal : Phosphor bronze/Tin plating Outer terminal : Brass/Tin plating	AWG#30	φ0.6~0.9	φ1.4~1.8	22.7	1,300pcs/reel	○
GT5-2428/1.1-2.2SCF	755-0123-6		AWG#24~28	φ1.0~1.4	φ2.0~2.4	21.7		
GT5-2428/1.6-2.5SCF(70)	755-0078-3 70		AWG#30	φ1.5~2.0	φ2.3~2.7			
GT5-900/1.6-2.5SCF(70)	755-0022-9 70		AWG#24~28	φ1.5~2.0	φ2.6~3.4			
GT5-2428/1.6-2.5SCF(70)	755-0002-1 70		AWG#20~22	φ2.0~2.5	φ3.3~3.7			
GT5-2022/2.7-3.5SCF(70)	755-0077-0 70		AWG#30	φ2.5~2.9	φ3.6~4.0	1,100pcs/reel		
GT5-2022/F3.3-3.8SCF(70)	755-0054-5 70		AWG#24~28	φ3.0~3.6	φ4.6~5.0			
GT5-900/F3.3-5SCF(70)	755-0016-6 70		AWG#20~22	φ3.0~3.6	φ4.6~5.0			
GT5-2428/F3.3-5SCF(70)	755-0012-5 70		AWG#30	φ3.0~3.6	φ4.6~5.0			
GT5-2022/F3.3-5SCF(70)	755-0034-8 70		AWG#24~28	φ3.0~3.6	φ4.6~5.0			
GT5-300/4-5SCF(70)	755-0020-9 70	AWG#30	φ3.0~3.6	φ4.6~5.0	22.7			
GT5-2428/4-5SCF(70)	755-0024-4 70	AWG#24~28	φ3.0~3.6	φ4.6~5.0				
GT5-2022/F4-5SCF(70)	755-0036-3 70	AWG#20~22	φ3.0~3.6	φ4.6~5.0				

Note : Products marked with an asterisk (*) support insulators made of polyethylene foam.

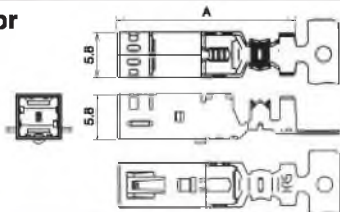
M Connector Terminals



Part No	HRS No.	Material / Finish or color	Conductor size	Insulator outer diameter	Jacket outer diameter	A	Sales unit	RoHS
GT5-900/7-1.5PCF(70)	755-0017-9 70	Insulator : PBT/Dark gray Center terminal : Brass/Tin plating Outer terminal : Brass/Tin plating	AWG#30	φ0.6~0.9	φ1.4~1.8	24.05	900pcs/reel	○
GT5-900/1.6-2.5PCF(70)	755-0021-6 70		AWG#24~28	φ1.5~2.0	φ2.6~3.4	23.05		
GT5-2428/1.6-2.5PCF(70)	755-0001-5 70		AWG#20~22	φ2.0~2.5	φ3.3~3.7	24.05		
GT5-2022/1.6-2.5PCF(70)	755-0094-0 70				φ3.6~4.0			
* GT5-2022/F2.7-3.5PCF(70)	755-0076-8 70		AWG#30	φ2.5~2.9				
* GT5-2022/F3.3-3.8PCF(70)	755-0053-2 70		AWG#24~28					
* GT5-900/F3.3-5PCF(70)	755-0015-3 70		AWG#20~22		φ4.6~5.0			
* GT5-2428/F3.3-5PCF(70)	755-0011-2 70		AWG#30					
* GT5-2022/F3.3-5PCF(70)	755-0039-5 70		AWG#24~28					
* GT5-900/F4-5PCF(70)	755-0019-4 70		AWG#20~22					
* GT5-2428/F4-5PCF(70)	755-0023-1 70		AWG#24~28	φ3.0~3.6				
* GT5-2022/F4-5PCF(70)	755-0035-0 70		AWG#20~22					

Note : Products marked with an asterisk (*) support insulators made of polyethylene foam.

Terminal for Low-Insertion M Connector



Part No.	HRS No.	Material / Finish or color	Conductor size	Insulator outer diameter	Jacket outer diameter	A	Sales unit	RoHS
GT5L-300/7-1.5PCF(70)	755-0068-0 70	Insulator : PBT/Dark gray Center terminal : Brass/Tin plating Outer terminal : Brass/Tin plating	AWG#30	φ0.6~0.9	φ1.4~1.8	24.05	900pcs/reel	○
GT5L-2428/1.6-2.5PCF(70)	755-0079-6 70		AWG#24~28		φ2.3~2.7	23.05		
GT5L-300/1.6-2.5PCF(70)	755-0067-7 70		AWG#30	φ1.5~2.0	φ2.6~3.4			
GT5L-2428/1.6-2.5PCF(70)	755-0066-4 70		AWG#24~28					

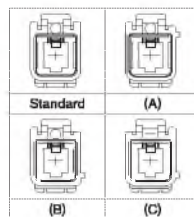
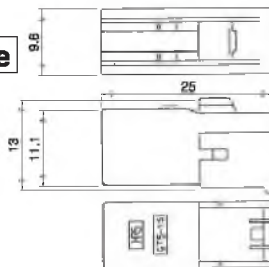
1 Pos. for Coaxial Cable

F Connector

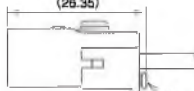
● Housing



GT5-1S-HU



● Shown with retainer inserted.
(26.35)

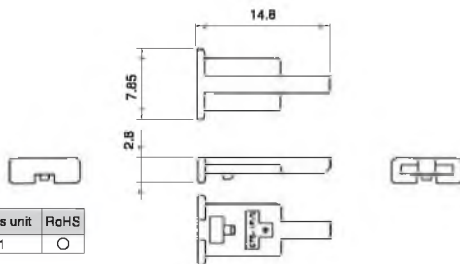


*Use together with separate retainer (GT5-1P/S-R) sold separately.

Part No.	HRS No.	Material	Color	Key position	Corresponding M Connector Housing	Corresponding M Connector Board-Mounting	Sales unit	RoHS
GT5-1S-HU	755-0004-7	PBT	Light gray	Standard	GT5-1PP-HU(70)	GT5-1P-DS(70)	1	○
GT5-1S-HU(A)	755-0037-6		Brown	(A)	GT5-1PP-HU(A)(70)	GT5-1P-DS(A)(70)		
GT5-1S-HU(B)	755-0038-9		Green	(B)	GT5-1PP-HU(B)(70)	GT5-1P-DS(B)(70)		
GT5-1S-HU(C)	755-0080-5		Blue	(C)	GT5-1PP-HU(C)(70)	GT5-1P-DS(C)(70)		

*M connector mating table (Use types with matching key positions as described above.)

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

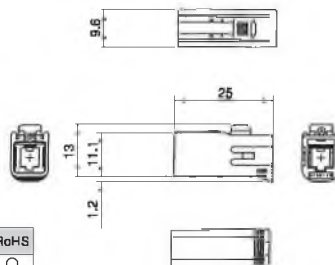


Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT5-1P/S-R	755-0006-2	PBT	Dark gray	1	○

● Housing (Retainer Not Required)



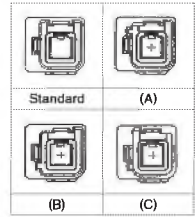
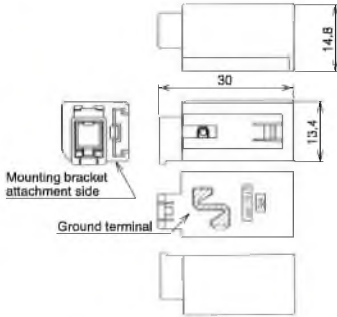
GT5R-1S-HU



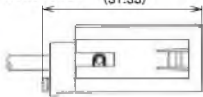
Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT5R-1S-HU	755-0047-0	PBT	Light gray	1	○

M Connector

Housing



Shown with retainer inserted.



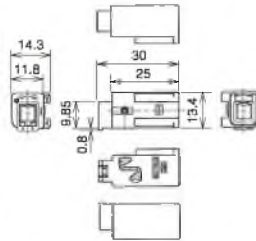
*Use together with separate retainer (GT5-1P/S-R) sold separately.

Part No.	HRS No.	Corresponding F Connector Housing	Material / Finish	Color	Key position	Sales unit	RoHS
GT5-1PP-HU(70)	755-0005-0 70	GT5-1S-HU	Housing: PBT	Light gray	Standard	1	○
GT5-1PP-HU(A)(70)	755-0039-1 70	GT5-1S-HU (A)	Ground terminal: Phosphor bronze/Tin plating	Brown	(A)		
GT5-1PP-HU(B)(70)	755-0040-0 70	GT5-1S-HU (B)		Green	(B)		
GT5-1PP-HU(C)(70)	755-0103-9 70	GT5-1S-HU (C)		Blue	(C)		

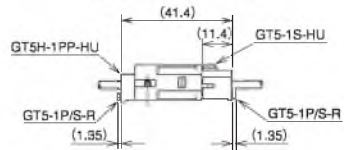
*See page 17 for panel mounting in-line bracket.

*Please use a corresponding F connector housing with a matching key type.

Housing (H type bracket)



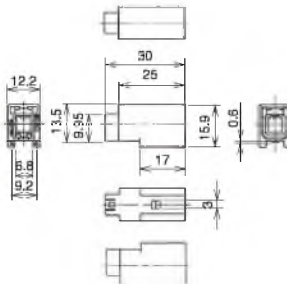
Mated Connector



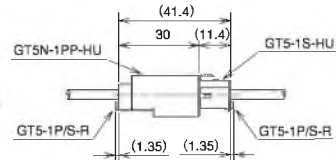
*Use together with separate retainer (GT5-1P/S-R) sold separately.

Part No.	HRS No.	Material	Color	Corresponding F Connector	Sales unit	RoHS
GT5H-1PP-HU(10)	755-0093-7 10	PBT	Light gray	GT5-1S-HU GT5R-1S-HU	1	○

Housing (N type bracket)



Mated Connector

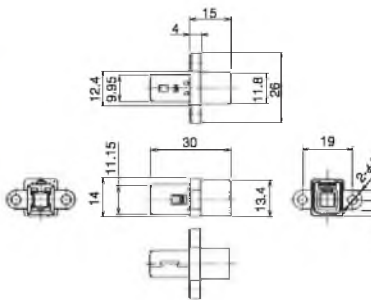


*Use together with separate retainer (GT5-1P/S-R) sold separately.

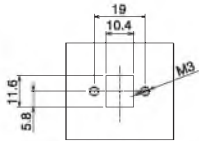
Part No.	HRS No.	Material	Color	Corresponding F Connector	Sales unit	RoHS
GT5N-1PP-HU	755-0090-9	PBT	Light gray	GT5-1S-HU GT5R-1S-HU	1	○

● Housing

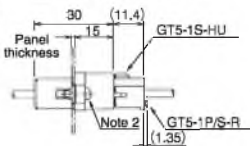
〔Panel Mount type
Enforced Shield type〕



◆Recommended Panel
Dimensions

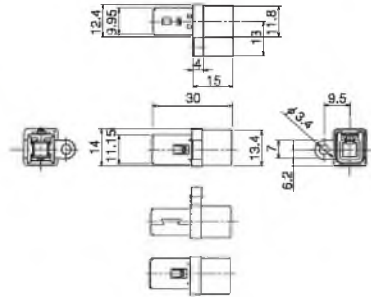


◆Mated Connector

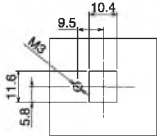


Part No.	HRS No.	Material / Finish or color	Corresponding F Connector	Sales unit	RoHS
GT5A-1PP-HU(70)	755-0025-7 70	Housing : PBT/ Light gray Ground terminal : Brass/Tin plating	GT5-1S-HU GT5R-1S-HU	1	○

Note 1 : This product does not require a retainer.
Note 2 : Use M3 screws listed in JIS B 1111 and 1101 M3 screws for mounting screws.

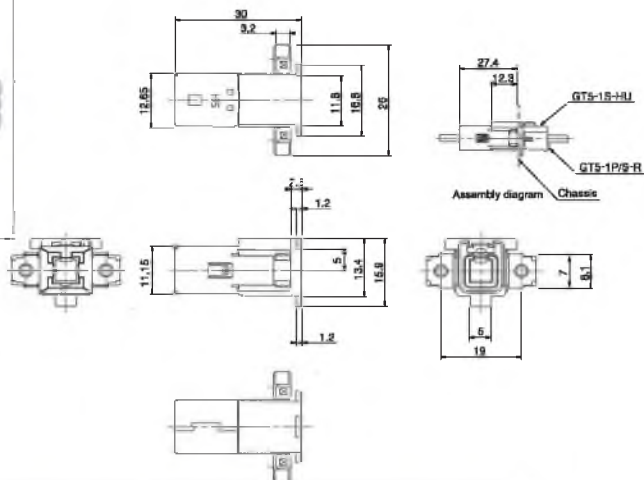


◆Recommended Panel
Dimensions



Part No.	HRS No.	Material / Finish or color	Corresponding F Connector	Sales unit	RoHS
GT5P-1PP-HU(70)	755-0030-7 70	Housing : PBT/ Light gray Ground terminal : Brass/Tin plating	GT5-1S-HU GT5R-1S-HU	1	○

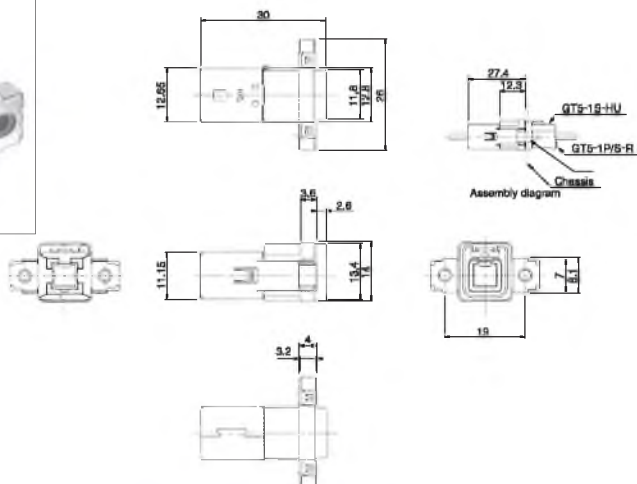
Note 1 : This product does not require a retainer.
Note 2 : Use M3 screws listed in JIS B 1111 and 1101 M3 screws for mounting screws.



Part No.	HRS No.	Material / Finish or color	Corresponding F Connector	Sales unit	RoHS
GT5B-1PP-HU(70)	755-0051-7 70	Housing : PBT/ Light gray Ground terminal : Phosphor bronze/Tin plating	GT5-1S+HU GT5R-1S+HU	1	○

Note 1 : This product does not require a retainer.

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

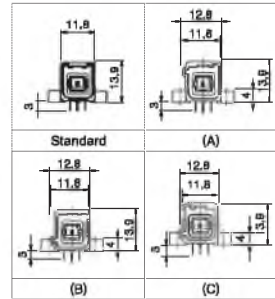
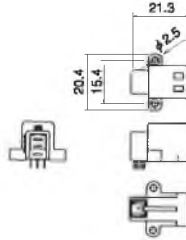
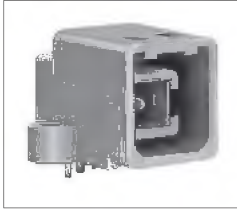


Part No.	HRS No.	Material / Finish or color	Corresponding F Connector	Sales unit	RoHS
GT5B-1PP-HU(70)	755-0050-4 70	Housing : PBT/ Light gray Ground terminal : Phosphor bronze/Tin plating	GT5-1S+HU GT5R-1S+HU	1	○

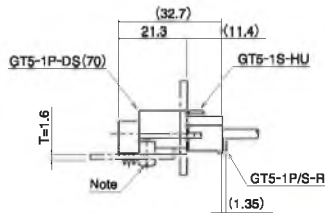
Note 1 : This product does not require a retainer.

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

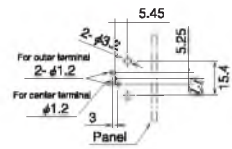
● Board Mount type



◆ Mated Connector



◆ Recommended Board Dimensions

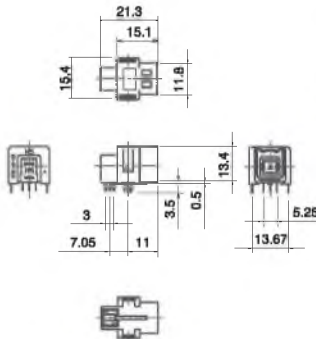


Part No.	HRS No.	Material / Finish or color	Color	Key position	Corresponding connector	Sales unit	RoHS
GT5-1P-DS(70)	756-0007-5 70	Housing: PBT	Light gray	Standard	GT5-1S-HU	1	○
GT5-1P-DS(A)(70)	756-0041-3 70	Center terminal: Brass/Tin plating	Brown	(A)	GT5-1S-HU(A)		
GT5-1P-DS(B)(70)	756-0042-6 70	Insulator: PBT/Dark gray	Green	(B)	GT5-1S-HU(B)		
GT5-1P-DS(C)(70)	756-0083-3 70	Outer terminal: Phosphor bronze/Tin plating	Blue	(C)	GT5-1S-HU(C)		

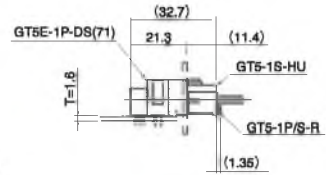
Note: Use JIS B 1115 and 1122 class 4, nominal diameter 3, length 6 screws (for a board thickness of 1.6 mm) for the mounting screws.

*Six types of keys are available.

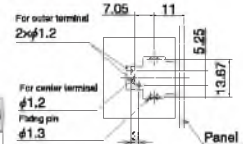
Please use a corresponding F connector housing with a matching key type.



◆ Mated Connector



◆ Recommended Board Dimensions

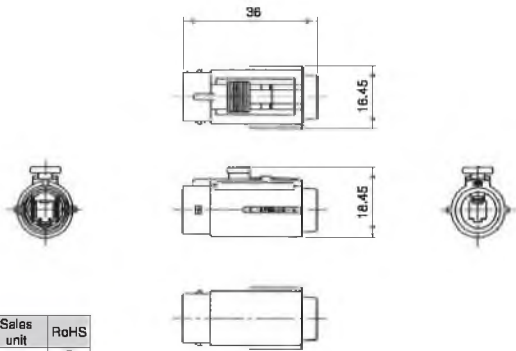


Part No.	HRS No.	Material / Finish or color	Corresponding connector	Sales unit	RoHS
GT5EC-1P-DS(71)	755-0125-1 71	Housing: PA/Natural Center terminal: Brass/Tin plating Insulator: PA/Black Outer terminal: Phosphor bronze/Tin plating Fixing pin: Brass/Tin plating	GT5-1S-HU GT5R-1S-HU	1	○

1 Pos. for Coaxial Cable, Waterproof type

F Connector

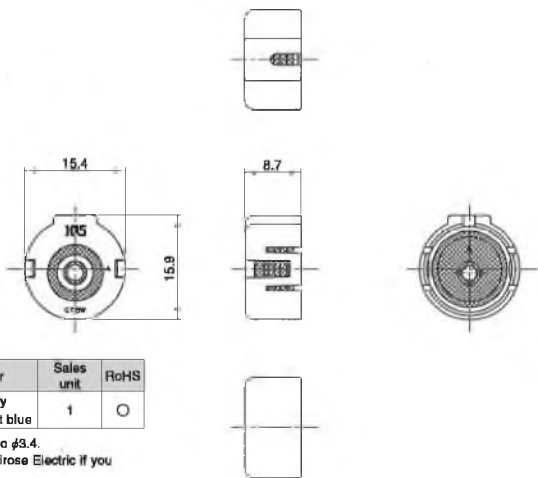
Housing



Part No.	HRS No.	Material	Color	Sales unit	RoHS
GT5W-1S-HU	755-0027-2	PBT	Light gray	1	○

Note : Use this product with a retainer that matches the cable.

Retainer (Used with: GT5W-1PP-HU, GT5JW-1PP-HU, GT5W-1S-HU, GT5W-1P-HU)

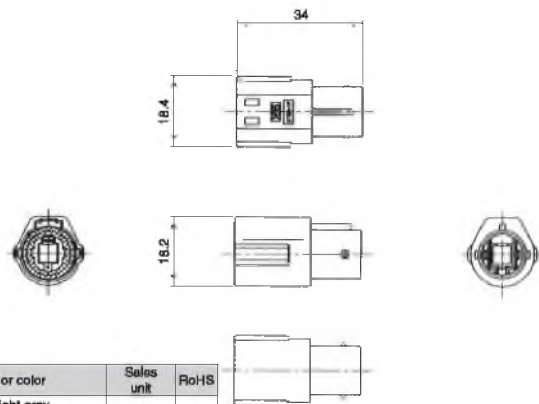


Part No.	HRS No.	Material / Finish er color	Sales unit	RoHS
GT5W-1P/S-R	755-0028-5	Retainer : PBT/Dark gray Rubber : Silicon rubber/Light blue	1	○

*This product supports cables with outer diameters of $\phi 2.9$ to $\phi 3.4$.
Waterproofness will depend on the cable. Please contact Hirose Electric if you intend to use cables other than those recommended.

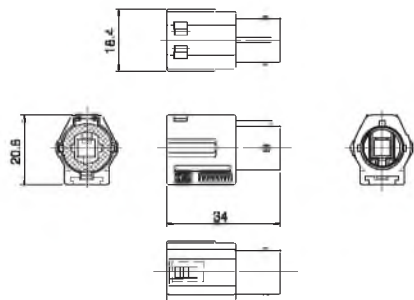
■ M Connector

● Housing



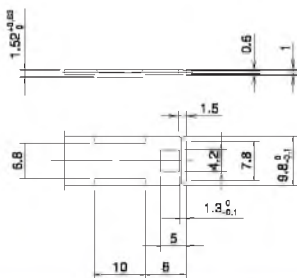
Part No.	HRS No.	Material / Finish or color	Sales unit	RoHS
GT5W-1P-HU	755-0026-0	Housing : PBT / Light gray Connector seal : Silicon rubber / White	1	○

Note : Use this product with a retainer that matches the cable.



◆ Recommended Bracket Dimensions (Used with GT5W-1PP-HU)

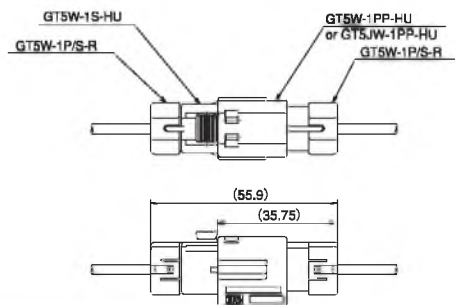
Please check with Hirose for information on the bracket for GT5JW-1PP-HU.



Part No.	HRS No.	Material / Finish or color	Sales unit	RoHS
GT5W-1PP-HU	755-0070-1	Housing : PBT / Light gray	1	○
GT5JW-1PP-HU	755-0068-2	Connector seal : Silicon rubber / White		

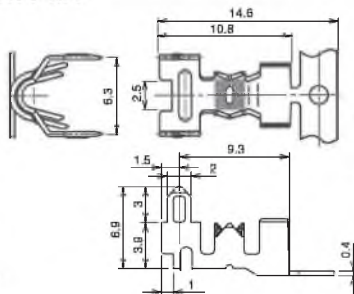
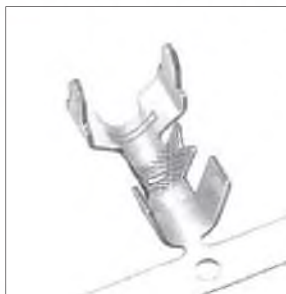
Note : Use this product with a retainer that matches the cable.

◆ Mated Connector

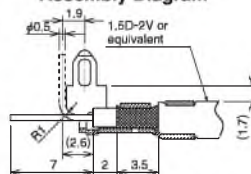


G Terminal

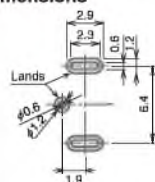
■ For Cable Termination Part



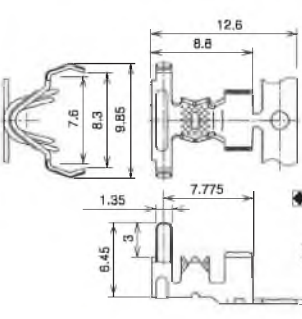
◆ Recommended Cable Assembly Diagram



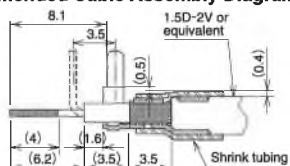
◆ Recommended Board Dimensions



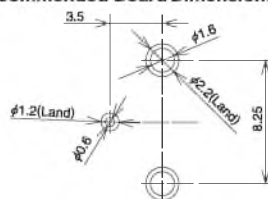
Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTA-1.6CF(70)	755-0032-2 70	Brass	Tin plating	1,500 pcs/reel	○



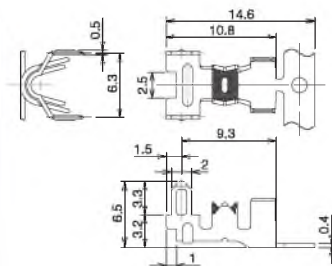
◆ Recommended Cable Assembly Diagram



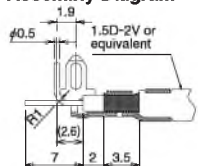
◆ Recommended Board Dimensions



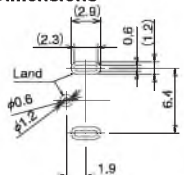
Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTB-1.6CF(70)	755-0049-5 70	Brass	Tin plating	1,500 pcs/reel	○



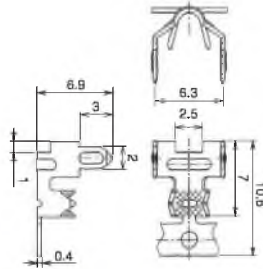
◆ Recommended Cable Assembly Diagram



◆ Recommended Board Dimensions

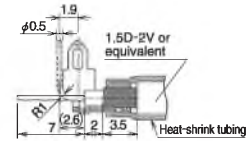


Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTC-1.6CF	755-0106-7	Brass	Tin plating	1,500 pcs/reel	○

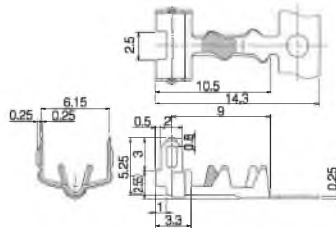
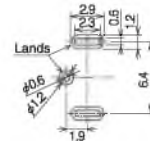


Part No.	HRS No.	Material	Finish	Sales unit	RoHS
G-1.6PCF(70)	755-0029-8 70	Brass	Tin plating	1,500 pcs/reel	○

Recommended Cable Assembly Diagram

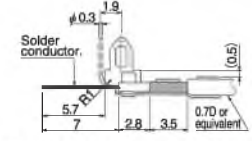


Recommended Board Dimensions

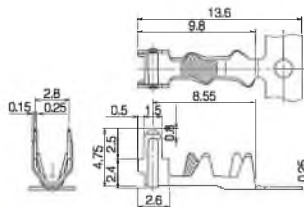
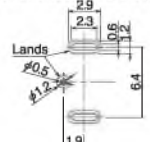


Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTA-0.7CF	755-0074-2	Brass	Tin plating	1,500 pcs/reel	○

Recommended Cable Assembly Diagram

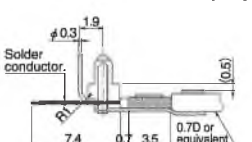


Recommended Board Dimensions

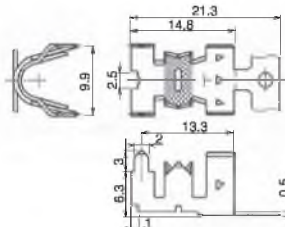
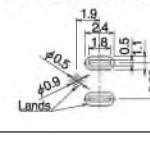


Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTB-0.7CF	755-0075-5	Brass	Tin plating	1,500 pcs/reel	○

Recommended Cable Assembly Diagram

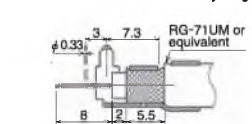


Recommended Board Dimensions

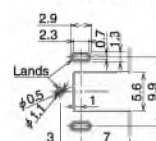


Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GTE-3.7CF	755-0122-3	Brass	Tin plating	1,100 pcs/reel	○

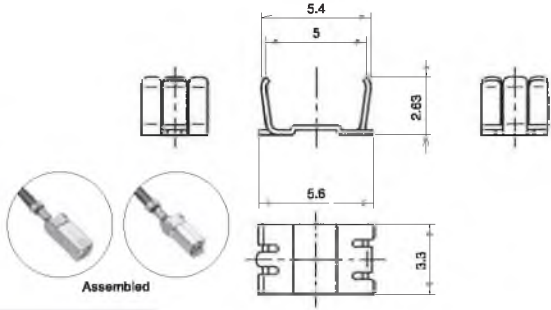
Recommended Cable Assembly Diagram



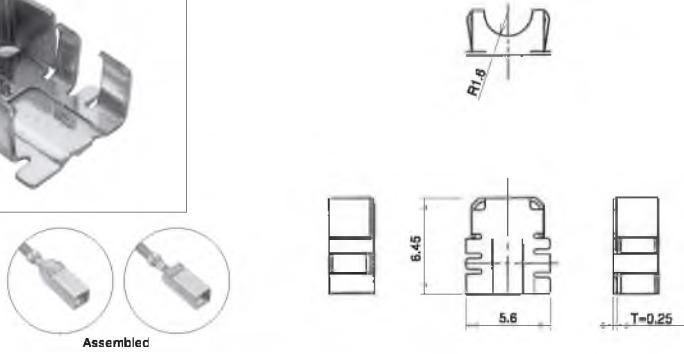
Recommended Board Dimensions



Shield Plate



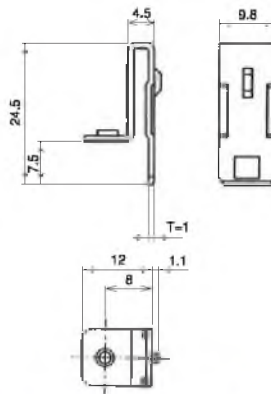
Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GT5C-1P/S-CSB(70)	755-0048-2 70	Brass	Tin plating	1	○



Part No.	HRS No.	Material	Finish	Sales unit	RoHS
GT5C-1P/S-CSB(70)	755-0088-7 70	Brass	Tin plating	1	○

GT5
GT13
GT16
GT18
GT21
GT26
GT43
GT17
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GT100

■ Panel Mount In-line Bracket



Part No.	HRS No.	Material	Finish	Used with connectors	Sales unit	RoHS
GT-BK(70)	751-0039-6 70	SPCC	Tin plating	GT5-1PP-HU(70), GT5-1PP-HU(A)(70), GT5-1PP-HU(B)(70) GT5-1PP-HU(C)(70), GT5-1PP-HU(D)(70) GT5-1PP-HU(E)(70), GT5-1PP-HU(F)(70) GT5-1PP-HU(G)(70), GT5-1PP-HU(H)(70) GT5-2/1PP-HU(70), GT5-2PP-HU(70) GT5-2PP-HU(A)(70), GT5-2PP-HU(B)(70) GT5-2PP-HU(C)(70)	1	○

◆ Crimping Tools

Please ask your Hirose Electric account representative for a user manual.

Automatic Crimping Machine



Photo for
reference only.
Subject to change.

Part No. CM-105C

Specifications

Item	Specifications	Remarks
Press capacity	1.5tons	
Stroke length	30mm	
Number of strokes	200spm (50Hz)	200spm (60Hz)
Weight	75kg	
Motor	0.2kW	AC100V
Crimping speed	2,000~4,000/H	

*Terminal crimp height setting tables are available for each cable type. Please contact your Hirose Electric account representative.

Please note that we will need to define new crimp heights for novel cables and this may take a few days.

● **Harness Tools**

Contact Product No.	Contact HRS No.	Tool No.	Tool HRS No.
GT5-30/0.7-1.5PCF(70)	755-0017-9 70	AP105-GT5-30/0.7-1.5P	901-5021-8
GT5-30/0.7-1.5SCF(70)	755-0065-1 70	AP105-GT5-30/0.7-1.5S	901-5080-7
GT5L-2428/1.6-2.5PCF(70)	755-0079-6 70	AP105-GT5-2428/1.6-2.5P	901-5100-2
GT5-2428/1.6-2.5SCF(70)	755-0078-3 70	AP105-GT5-2428/1.6-2.5S	901-5101-5
GT5-30/1.6-2.9PCF(70)	755-0021-6 70	AP105-GT5-30/1.6-2.9P-ID	901-5019-6
		AP105-GT5-30/1.6-2.9P	901-5017-0
GT5-30/1.6-2.9SCF(70)	755-0022-9 70	AP105-GT5-30/1.6-2.9S-ID	901-5020-5
		AP105-GT5-30/1.6-2.9S	901-5018-3
GT5-2428/1.6-2.9PCF(70)	755-0001-9 70	AP105-GT5-2428/1.6-2.9P	901-5029-0
		AP105-GT5-2428/1.6-2.9PWS	901-5031-1
		AP105-GT5-2428/1.6-2.9P-B	901-5103-0
		AP105-GT5-2428/1.6-2.9S	901-5030-9
GT5-2428/1.6-2.9SCF(70)	755-0002-1 70	AP105-GT5-2428/1.6-2.9SWS	901-5032-4
		AP105-GT5-2428/1.6-2.9S-B	901-5104-3
GT5-2022/1.6-2.9SCF(70)	755-0071-4 70	AP105-GT5-2022/1.6-2.9S	901-5088-9
GT5-2022/F2.7-3.5PCF(70)	755-0076-8 70	AP105-GT5-2022/F2.7-3.5P	901-5091-3
GT5-2022/F2.7-3.5SCF(70)	755-0077-0 70	AP105-GT5-2022/F2.7-3.5S	901-5092-6
GT5-2022/F3.3-3.8PCF(70)	755-0053-2 70	AP105-GT5-2022/F3.3-3.8P	901-5075-7
GT5-2022/F3.3-3.8SCF(70)	755-0054-5 70	AP105-GT5-2022/F3.3-3.8S	901-5076-0
GT5-2022/F3.3-5PCF(70)	755-0038-5 70	AP105-GT5-2022/F3.3-5P-ID	901-5058-8
		AP105-GT5-2022/F3.3-5P	901-5059-0
GT5-2022/F3.3-5SCF(70)	755-0034-8 70	AP105-GT5-2022/F3.3-5S-ID	901-5060-0
		AP105-GT5-2022/F3.3-5S	901-5061-2
GT5-30/F4-5PCF(70)	755-0019-4 70	AP105-GT5-30/F4-5P-ID	901-5033-7
GT5-30/F4-5SCF(70)	755-0020-3 70	AP105-GT5-30/F4-5S-ID	901-5034-0
GT5-2428/F4-5PCF(70)	755-0023-1 70	AP105-GT5-2428/F4-5P-ID	901-5035-2
		AP105-GT5-2428/F4-5P-3C2V	901-5056-2
GT5-2428/F4-5SCF(70)	755-0024-4 70	AP105-GT5-2428/F4-5S-ID	901-5036-5
		AP105-GT5-2428/F4-5S-3C2V	901-5057-5
GT5-2022/F4-5PCF(70)	755-0035-0 70	AP105-GT5-2022/F4-5P	901-5052-1
		AP105-GT5-2022/F4-5P-18ID	901-5121-2
GT5-2022/F4-5SCF(70)	755-0036-3 70	AP105-GT5-2022/F4-5S	901-5053-4
		AP105-GT5-2022/F4-5S-18ID	901-5102-8
G-1.6PCF(70)	755-0029-8 70	AP105-G-1.6P	901-5041-5
GTA-0.7CF	755-0074-2	AP105-GTA.B-0.7P	901-5141-0
GTB-0.7CF	755-0075-5	AP105-GTA.B-0.7P	901-5141-0
GTA-1.6CF(70)	755-0032-2 70	AP105-GTA.B-1.6P	901-5047-1
GTB-1.6CF(70)	755-0049-5 70	AP105-GTA.B-1.6P	901-5047-1
GTC-1.6CF	755-0106-7	AP105-GTA.B-1.6P	901-5047-1
GTE-3.7CF	755-0122-3	AP105-GTE-3.7	901-5151-3

Please refer to our cable termination procedure manual for performing terminations.

Алматы (7273)495-231
Ангарск (3955)60-70-58
Архангельск (8192)63-90-72
Астрахань (8512)98-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)69-03-52
Владивосток (423)249-28-31
Владикавказ (8672)29-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (3952)79-98-48
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Колomo (496)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)60-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-84-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (393)227-86-73
Омск (3912)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-69-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)58-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-04
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)28-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-97
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
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