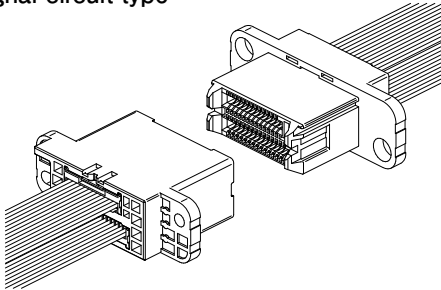


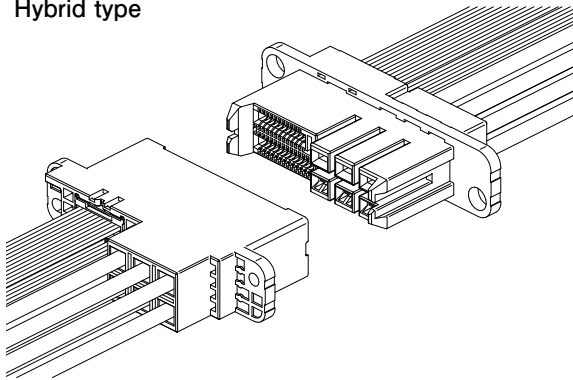
# RGX CONNECTOR

Wire-to-Wire connectors

Signal circuit type



Hybrid type



With an in-unit connection, the RGX series is offered as both a signal type and a hybrid type drawer connector with combined signal and power lines. Misalignment is absorbed between units with exceptional durability against insertion and withdrawal forces. Improvements in the contact structure allows for enhanced contact reliability.

## ■ Specifications

- Current rating: Signal line/ 1.0 A AC/DC (AWG#26)  
: Power line/ 15 A AC/DC (AWG#14)
- Voltage rating: Signal line/ 50 V AC/DC  
: Power line/ 250 V AC/DC
- Temperature range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (Including temperature rise in applying electrical current)
- Contact resistance :  
Signal line Initial value/ 40 m $\Omega$  max.  
After environmental tests/ 60 m $\Omega$  max.  
Power line: Initial value/ 10 m $\Omega$  max.  
After environmental tests/ 20 m $\Omega$  max.
- Insulation resistance : 500 M $\Omega$  min.
- Withstanding voltage : Signal line/ There shall be no breakdown or flashover while applying 500 VAC for one minute.  
: Power line/ There shall be no breakdown or flashover while applying 1,500 VAC for one minute.
- Applicable wire range :  
Power line Conductor size/ AWG#18 to #14  
Insulation O.D./  $\phi 2.0$  mm to  $\phi 3.6$  mm  
Plug signal line Conductor size/ AWG#28 to #26  
Insulation O.D./  $\phi 0.7$  mm to  $\phi 0.8$  mm  
Receptacle signal line: Applicable socket /GX connector
- Guaranteed mating cycles: 6,000 times

※ Please refer to the “Handling Precautions for Terminals and Connectors” on our website (listed in the “Technical Documents” column on the Product Information page) before use.

※ RoHS2 compliance

※ Dimensional unit: mm

※ Contact JST for details.

## ■ Standards

For information on overseas standard registrations, please refer to the “List of Registered Overseas Standards” on our website (listed in the “Technical Documents” column on the Product Information page).

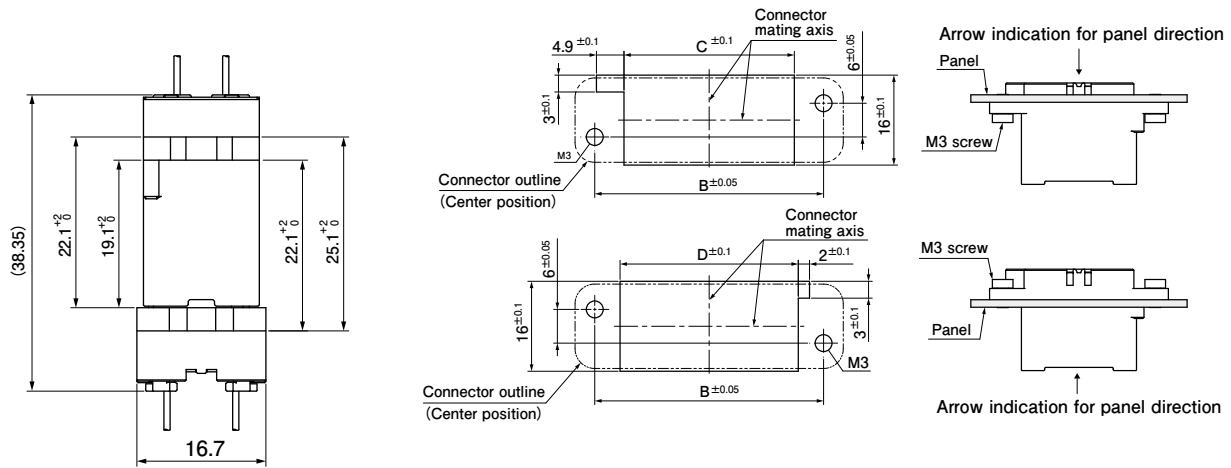
※ Specifications registered to overseas standards may differ from the general specifications listed above.

## PC board layout and Assembly layout

### Signal circuit type

#### ● Plug

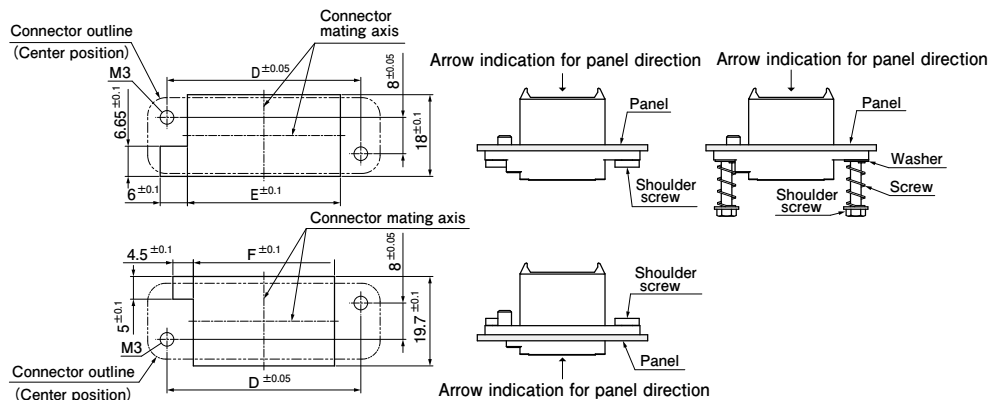
Panel thickness : t 0.8 to 2.0



Note) Dimensions B, C, D: See plug housing signal type section on page 5.

#### ● Receptacle

Panel thickness : t 0.8 to 2.0



Note: Dimensions D, E, and F: Refer to receptacle signal type section on page 5.

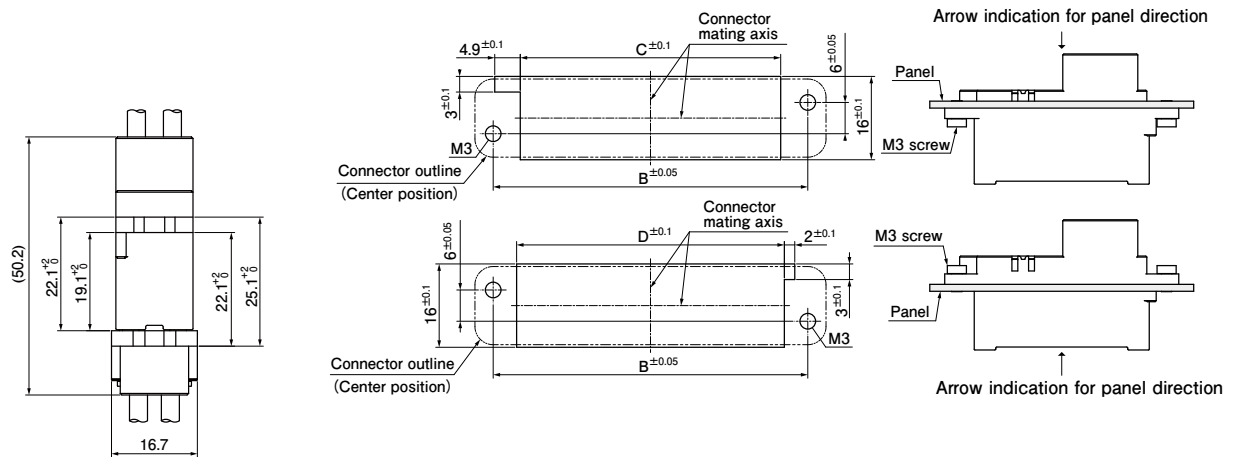
- Note 1: Panel layout is viewed from the arrow indicating panel direction  
 Note 2: Drill holes correspond to panel layout dimensions to prevent the formation of burrs, etc.  
 Note 3: When drilling multiple panel holes adjacent to each other, pay sufficient attention to the strength of the panel.  
 Note 4: During panel hole fabrication, be sure that the panel insertion direction of the connector is the same as the direction of the drilling process.  
 Note 5: 1-1 connection corresponds to both signal and power lines.

## PC board layout and Assembly layout

### Hybrid type

#### ● Plug

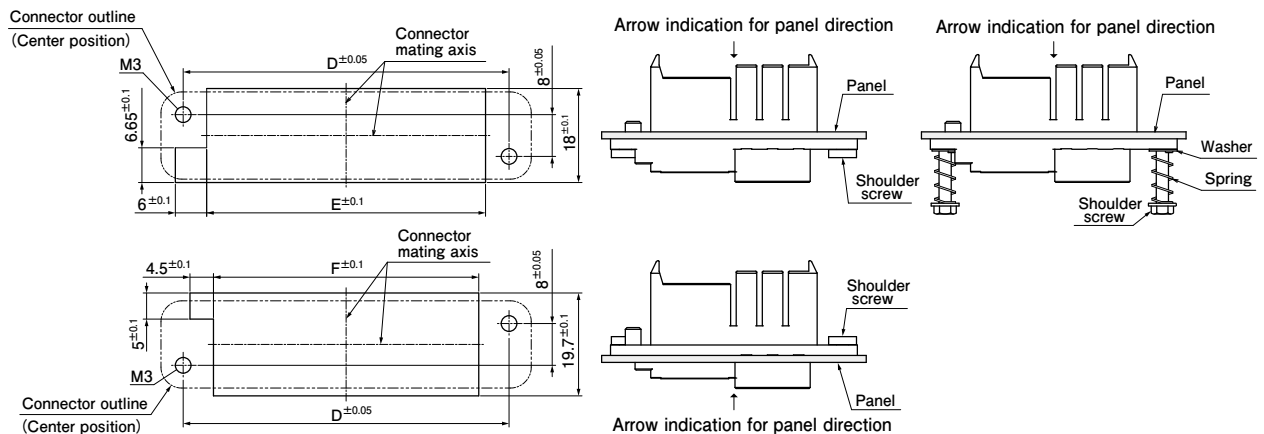
Panel thickness :  $t$  0.8 to 2.0



Note) Dimensions B, C, and D: See plug housing hybrid type section on page 5.

#### ● Receptacle

Panel thickness :  $t$  0.8 to 2.0

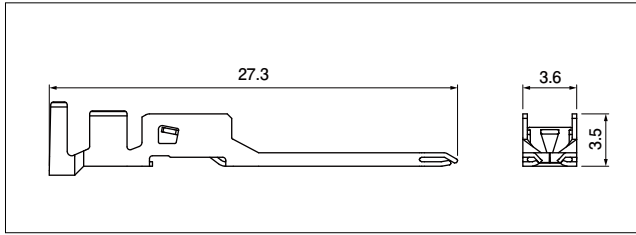


Note) Dimensions D, E, and F: See receptacle hybrid type section on page 5.

- Note 1: Panel layout is viewed from the arrow indicating panel direction.  
 Note 2: Drill holes correspond to panel layout dimensions to prevent the formation of burrs, etc.  
 Note 3: When drilling multiple panel holes adjacent to each other, pay sufficient attention to the strength of the panel.  
 Note 4: During panel hole fabrication, be sure that the panel insertion direction of the connector is the same as the direction of the drilling process.  
 Note 5: 1-1 connection corresponds to both signal and power lines.

# RGX CONNECTOR

## Plug contact for power line



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm <sup>2</sup> )	Insulation O.D. (mm)	
SRFM-61GG-S0.9	#18 to #14 (0.75 to 2.0)	2.0 to 3.6	3,500

### Material and Surface finish, etc.

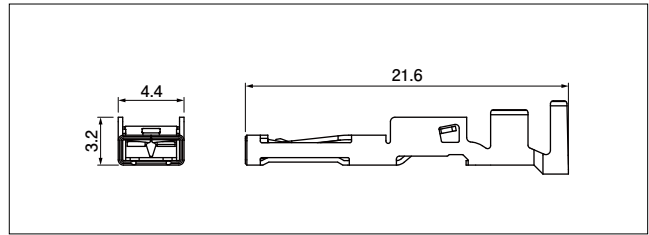
Copper alloy, Gold-plated (Contact part), Tin-plated (Crimping part)

Note) This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator	Crimp applicator with dies
SRFM-61GG-S0.9	AP-K2N	MKS-L	APLMK SRFF/M61-09

Note) Contact JST for fully automatic crimping applicator.

## Receptacle contact for power line



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm <sup>2</sup> )	Insulation O.D. (mm)	
SRFF-61GG-S0.9	#18 to #14 (0.75 to 2.0)	2.0 to 3.6	3,500

### Material and Surface finish, etc.

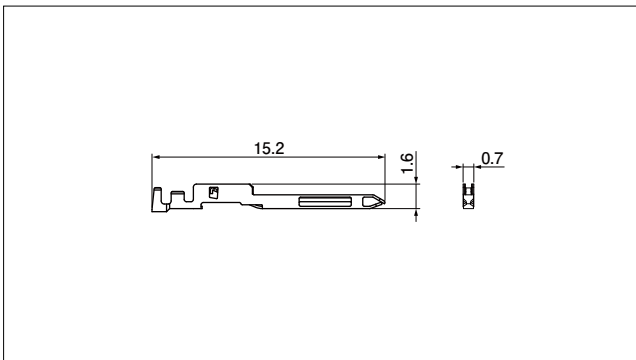
Copper alloy, Gold-plated (Contact part), Tin-plated (Crimping part)

Note) This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator	Crimp applicator with dies
SRFF-61GG-S0.9	AP-K2N	MKS-L	APLMK SRFF/M61-09

Note) Contact JST for fully automatic crimping applicator.

## Plug contact for signal line



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm <sup>2</sup> )	Insulation O.D. (mm)	
SRFCP-002GG-S0.9	#28 to #26 (0.08 to 0.13)	0.7 to 0.8	18,000

### Material and Surface finish, etc.

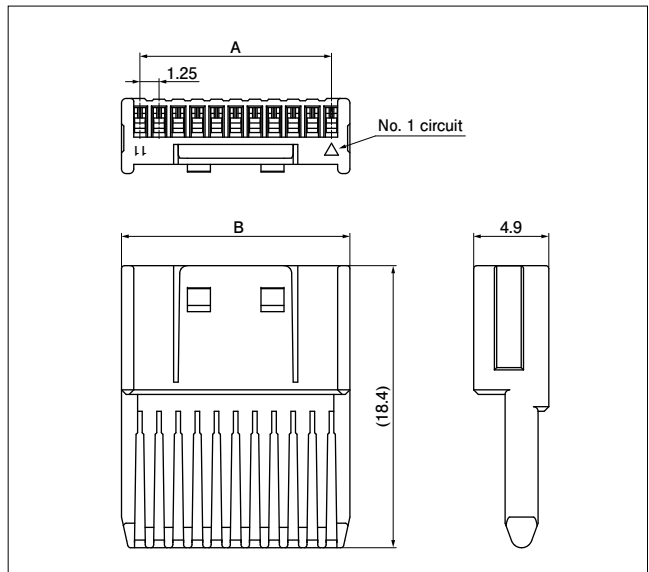
Copper alloy, Gold-plated (Contact part), Tin-plated (Crimping part)

Note) This product displays (LF)(SN) on a label.

Contact	Crimping machine	Applicator	Crimp applicator with dies
SRFCP-002GG-M0.9	AP-K2N	MKS-L-10-3	APLMK SRFCP002-09

Note) Contact JST for fully automatic crimping applicator.

## Plug signal unit



No. of circuits	Model No.	Dimension (mm)		Q'ty/box
		A	B	
11	RGXYP-11-K	12.5	14.9	1,000
13	RGXYP-13-K	15.0	17.4	1,000
15	RGXYP-15-K	17.5	19.9	500
17	RGXYP-17-K	20.0	22.4	500
19	RGXYP-19-K	22.5	24.9	500

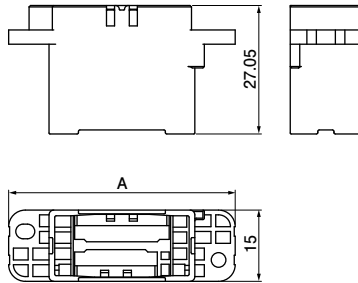
### Material and Surface finish, etc.

PBT (GF), black

Note) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## Plug housing

### Signal circuit type



No. of circuits		Model No.	Dimension (mm)				Q'ty/box
Power supply	Signal		A	B	C	D	
-	28	28P-RGX-K	47.7	40.7	30.3	31.7	540

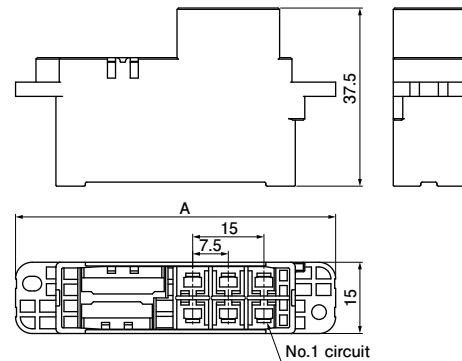
Material and Surface finish, etc.

PBT (GF), black

Note 1) Dimensions B, C, and D: See panel layout of plug for signal type on page 2.

Note 2) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

### Hybrid type



No. of circuits		Model No.	Dimension (mm)				Q'ty/box
Power supply	Signal		A	B	C	D	
6	24	24P-RGX-K-6	67.4	60.4	50.0	51.4	300
6	36	36P-RGX-K-6	79.4	67.9	57.5	58.9	240

Material and Surface finish, etc.

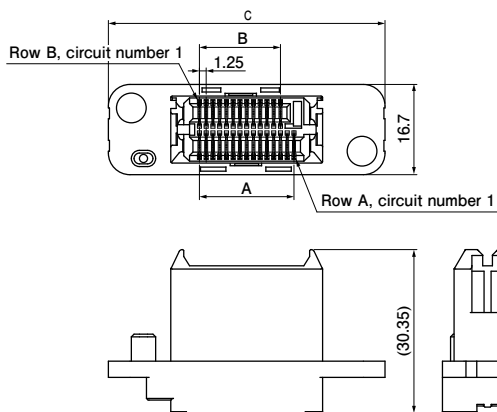
Signal contact: Copper alloy, Gold-plated (mating section), Tin-plated (socket)  
Housing: PBT (GF), black

Note 1) Dimensions B, C, and D: See panel layout of plug for hybrid type on page 3.

Note 2) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## Receptacle

### Signal circuit type



No. of circuits		Model No.	Dimension (mm)							Q'ty/box
Power supply	Signal		A	B	C	D	E	F		
-	28	28R-RGX-K5GG	17.5	15.0	51.2	42.7	33.7	31.1	420	

Material and Surface finish, etc.

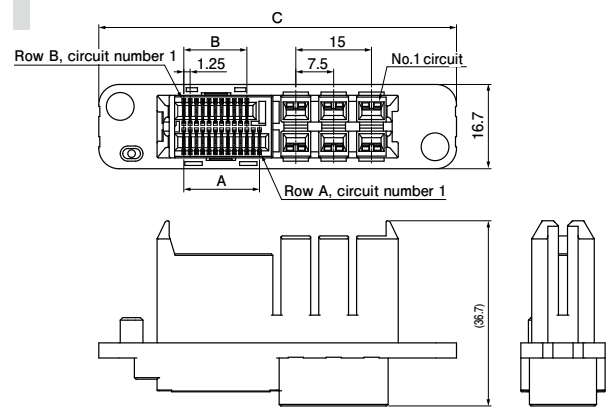
Signal contact: Copper alloy, Gold-plated (mating section), Tin-plated (socket)  
Housing: PBT (GF), black

Note 1) This product displays (LF)(SN) on a label.

Note 2) Dimensions D, E, and F: See Panel layout of receptacle for signal type on page 2.

Note 3) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

### Hybrid type



No. of circuits		Model No.	Dimension (mm)							Q'ty/box
Power supply	Signal		A	B	C	D	E	F		
6	24	24R-RGX-K5GG-6	15.0	12.5	70.9	62.4	53.4	50.8	300	
6	36	36R-RGX-K5GG-6	22.5	20.0	78.4	69.9	60.9	58.3	240	

Material and Surface finish, etc.

Signal contact: Copper alloy, Gold-plated (mating section), Tin-plated (socket)  
Housing: PBT (GF), black

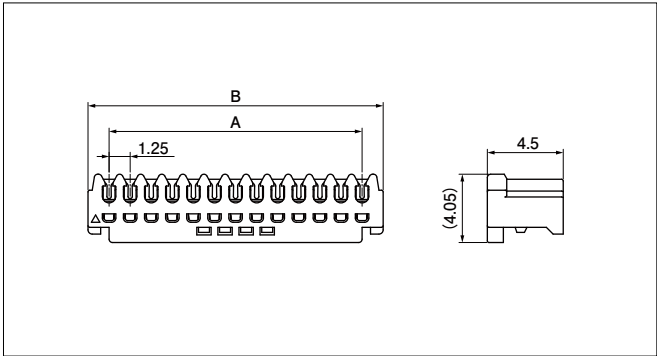
Note 1) This product displays (LF)(SN) on a label.

Note 2) Dimensions D, E, and F: See panel layout of receptacle for hybrid type on page 3.

Note 3) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

# RGX CONNECTOR

## GX conector socket



No. of circuits	Model No.	Dimension (mm)		Q'ty/box
		A	B	
11	11GX-6S	12.50	15.00	500
13	13GX-6S	15.00	17.50	500
15	15GX-6S	17.50	20.00	500
17	17GX-6S	20.00	22.50	400
19	19GX-6S	22.50	25.00	400

Material and Surface finish, etc.				
Contact: Copper alloy, tin-plated				
Socket contact: PBT (GF) , natural				

Note 2) For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).