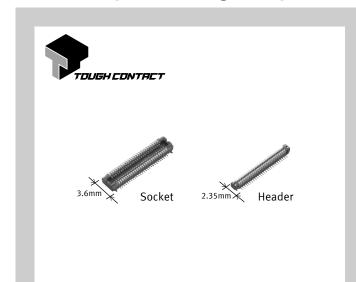
anasonic Industry

High Current Connectors For board-to-FPC/For board-to-board



(0.4 mm pitch)

Realized space savings for power line, and increased design flexibility



FEATURES

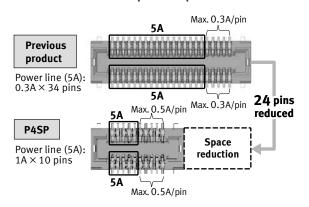
- Capable of MAX. 5 A for power Rated current 1 A/pin (for power) 0.5 A/pin (for signal), Total: Max. 12 A
- Any terminal can be applied for power terminal
- •Low contact resistance: Max. 40 mΩ
- High speed transmission of 10 Gbps is available

TYPICAL APPLICATIONS

DSC, mobile devices and industrial equipment

DETAILS FEATURES

■ Reduce the number of pins for power line

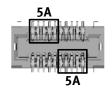


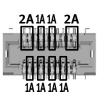
■Increased design freedom

Any pin contact can be used as a power contact. Any layout is possible for the power supply line.

Sample pin layout

Total power: Max. 5 A (1 A/pin × 10 pins)

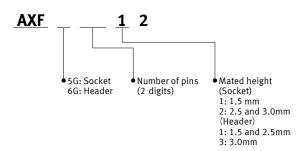




■ Rated current value 1 A/pin

For power terminal	For signal terminal		
1 A/pin x 10 pins	0.5 A/pin		
Total: Max. 12 A			

ORDERING INFORMATION (PART NO.)



PRODUCT TYPES

1.5 mm	Mated height	Number of	Part No.		Standard	oacking
1.5 mm 1.5 mm 2.5 mm 2.5 mm 2.5 mm 2.5 mm 2.5 mm 2.5 mm 2.6	wated neight	pins	Socket	Header	Inner carton (1-reel)	Outer carton
20 AXF5G2012 AXF6G2012 24 AXF5G2412 AXF6G2412 26 AXF5G2612 AXF6G2612 30 AXF5G3012 AXF6G3012 34 AXF5G3012 AXF6G3012 38 AXF5G3812 AXF6G3812 40 AXF5G4012 AXF6G3812 50 AXF5G5012 AXF6G3012 60 AXF5G6012 AXF6G6012 70 AXF5G7012 AXF6G7012 80 AXF5G8012 AXF6G8012 90 AXF5G8012 AXF6G8012 100 AXF5G0012 AXF6G3012 100 AXF5G0012 AXF6G3012 3,000 pcs. 2.5 mm 2.5 mm 2.5 mm 2.5 mm 20 AXF5G8022 AXF6G3012 40 AXF5G8022 AXF6G3032 40 AXF5G8022 AXF6G8032		10	AXF5G1012	AXF6G1012		
24		16	AXF5G1612	AXF5G1612 AXF6G1612		
26		20	AXF5G2012	AXF6G2012		
1.5 mm 30		24	AXF5G2412	AXF6G2412		
1.5 mm 34		26	AXF5G2612	AXF6G2612		
1.5 mm 38 AXF5G3812 AXF6G3812 40 AXF5G4012 AXF6G4012 50 AXF5G5012 AXF6G5012 60 AXF5G6012 AXF6G6012 70 AXF5G7012 AXF6G7012 80 AXF5G8012 AXF6G8012 90 AXF5G9012 AXF6G9012 100 AXF5G9012 AXF6G9012 100 AXF5G0012 AXF6G0012 20 AXF5G2022 AXF6G2012 30 AXF5G3022 AXF6G3012 40 AXF5G4022 AXF6G4012 60 AXF5G6022 AXF6G6012 80 AXF5G8022 AXF6G8012 100 AXF5G8022 AXF6G8012 100 AXF5G8022 AXF6G8012 30 AXF5G8022 AXF6G8012 100 AXF5G8022 AXF6G8012 30 AXF5G8022 AXF6G8012 30 AXF5G8022 AXF6G8032 30 AXF5G8022 AXF6G8032 30 AXF5G8022 AXF6G8032 30 AXF5G8022 AXF6G8032		30	AXF5G3012	AXF6G3012		
40		34	AXF5G3412	AXF6G3412		
2.5 mm 50 AXF5G5012 AXF6G6012 AXF6G6012 AXF6G6012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G8012 AXF6G9012 AXF6G9012 AXF6G9012 AXF6G0012 AXF5G0012 AXF6G0012 AXF6G80012 AXF6G80012 AXF6G80012 AXF6G80012 AXF6G80012 AXF6G80012 AXF6G80012 AXF6G0012 AXF6G0012	1.5 mm	38	AXF5G3812	AXF6G3812		
60		40	AXF5G4012	AXF6G4012	1	cs. 6,000 pcs.
70		50	AXF5G5012	AXF6G5012	1	
80		60	AXF5G6012	AXF6G6012	1	
2.5 mm 2.5 mm AXF5G9012 AXF6G9012	70	70	AXF5G7012	AXF6G7012	1	
2.5 mm 2.5 mm AXF5G9012 AXF6G9012 AXF6G0012 AXF6G2012 AXF6G2012 AXF6G3012 AXF6G3012 AXF6G4012 AXF6G4012 AXF6G6012 AXF6G8012 AXF6G8032 AXF6G8032 AXF6G8032 AXF6G8032 AXF6G8032		80	AXF5G8012	AXF6G8012		
20 AXF5G2022 AXF6G2012 30 AXF5G3022 AXF6G3012 40 AXF5G4022 AXF6G4012 60 AXF5G6022 AXF6G6012 80 AXF5G8022 AXF6G8012 100 AXF5G0022 AXF6G0012 20 AXF5G2022 AXF6G0012 30 AXF5G2022 AXF6G2032 30 AXF5G3022 AXF6G2032 30 AXF5G3022 AXF6G3032 30 AXF5G8022 AXF6G8032 80 AXF5G8022 AXF6G8032		90	AXF5G9012	AXF6G9012	3,000 pcs.	
2.5 mm 30		100	AXF5G0012	AXF6G0012	1	
2.5 mm 40		20	AXF5G2022	AXF6G2012	7	
2.5 mm 60 AXF5G6022 AXF6G6012 80 AXF5G8022 AXF6G8012 100 AXF5G0022 AXF6G0012 20 AXF5G2022 AXF6G2032 30 AXF5G3022 AXF6G3032 30 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032		30	AXF5G3022	AXF6G3012	1	
60 AXF5G6022 AXF6G6012 80 AXF5G8022 AXF6G8012 100 AXF5G0022 AXF6G0012 20 AXF5G2022 AXF6G2032 30 AXF5G3022 AXF6G3032 60 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032	0.5	40	AXF5G4022	AXF6G4012	1	
100 AXF5G0022 AXF6G0012 20 AXF5G2022 AXF6G2032 30 AXF5G3022 AXF6G3032 3.0 mm 60 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032	2.5 mm	60	AXF5G6022	AXF6G6012	1	
20 AXF5G2022 AXF6G2032 30 AXF5G3022 AXF6G3032 3.0 mm 60 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032		80	AXF5G8022	AXF6G8012	1	
30 AXF5G3022 AXF6G3032 60 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032		100	AXF5G0022	AXF6G0012		
3.0 mm 60 AXF5G6022 AXF6G6032 80 AXF5G8022 AXF6G8032		20	AXF5G2022	AXF6G2032	7	
80 AXF5G8022 AXF6G8032		30	AXF5G3022	AXF6G3032		
	3.0 mm	60	AXF5G6022	AXF6G6032	1	
100 AXF5G0022 AXF6G0032		80	AXF5G8022	AXF6G8032	1	
		100	AXF5G0022	AXF6G0032	1	

Notes: 1. Order unit: For volume production: 1-inner carton (1-reel) units. For samples, please contact our sales representative.

^{2.} Please contact our sales representative for connectors having a number of pins other than those listed above.

SPECIFICATIONS

■Characteristics

Item			Specifications Conditions			
	Power contact		_			
	Rated current	Signal contact	As power contact: 1.0 A/pin contact × 10 pins As signal contact: 0.5 A/pin contact (Max. 12 A at total pin contacts)			
	Rated voltage	•	30 V AC/DC			
Electrical characteristics			150 V AC for 1 min.	No short-circuiting or damage at a detection current of 1 mA when the specified voltage is applied for one minute.		
	Insulation res	istance	Min. 1,000 MΩ (initial)	Using 250 V DC megger (applied for 1 min.)		
	Contact resis	tance	Max. 40 mΩ	Based on the contact resistance measurement method specified by JIS C 5402.		
Mechanical	Composite in	sertion force	Max. 0.981 N/pin contact × pin contacts (initial)			
characteristics	Composite re	moval force	Min. 0.0588 N/pin contact × pin contacts			
	Ambient temp	perature	-55 to +85°C	Include the calorification from the connector. No icing. No condensation.		
	Soldering heat resistance		The initial specification must be satisfied electrically and mechanically.	Reflow soldering: Peak temperature: 260°C or less (on the surface of the PC board around the connector terminals) Soldering iron: 300°C within 5 sec. 350°C within 3 se		
	Storage temp	erature	−55 to +85°C (product only)−40 to +50°C (emboss packing)	No icing. No condensation.		
Environmental characteristics	Thermal shoc (header and s	ck resistance socket mated)	5 cycles, insulation resistance Min. 100 M Ω , contact resistance Max. 40 m Ω			
	Humidity resistance (header and socket mated)		120 hours, insulation resistance Min. 100 M Ω , contact resistance Max. 40 m Ω	Conformed to IEC60068-2-78 Temperature 40±2°C, humidity 90 to 95% RH		
	Saltwater spray resistance (header and socket mated)		24 hours, insulation resistance Min. 100 MΩ, contact resistance Max. 40 mΩ	Conformed to IEC60068-2-11 Temperature 35±2°C, saltwater concentration 5±1%		
	H ₂ S resistance (header and socket mated)		48 hours, contact resistance Max. 40 m Ω	Temperature 40±2°C, gas concentration 3±1 ppm, humidity 75 to 80% RH		
Lifetime characteristics	ristics Insertion and removal life		50 times	Repeated insertion and removal speed of Max. 200 times/hour		
Unit weight			20 pins Socket: 0.04 g 20 pins Header: 0.02 g			

■ Material and surface treatment

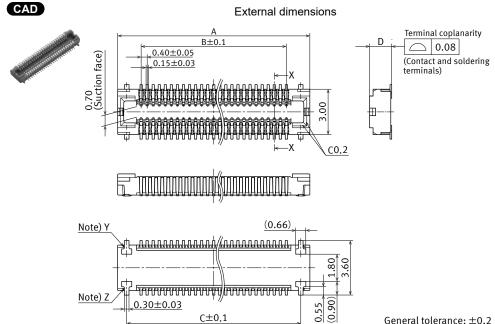
Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	_
Contact and Post	Copper alloy	Contact portion: Base: Ni plating, Surface: Au plating Terminal portion: Base: Ni plating, Surface: Au plating (except the terminal tips) The socket terminals close to the portion to be soldered have nickel barriers (exposed nickel portions).
Soldering terminals	Copper alloy	Sockets: Base: Ni plating, Surface: Pd + Au flash plating (except the terminal tips) Headers: Base: Ni plating, Surface: Au plating (except the terminal tips)

DIMENSIONS

CAD The CAD data of the products with a "CAD" mark can be downloaded from our Website.

Unit: mm

Socket (Mated height: 1.5 mm, 2.5 mm, 3.0 mm)



Note: Because the soldering terminal Y and Z are the unified structure, they are connected electrically.

Dimension table

Dimensions Number of pins	Α	В	С
10	4.70	1.60	3.50
16	5.90	2.80	4.70
20	6.70	3.60	5.50
24	7.50	4.40	6.30
26	7.90	4.80	6.70
30	8.70	5.60	7.50
34	9.50	6.40	8.30
38	10.30	7.20	9.10
40	10.70	7.60	9.50
50	12.70	9.60	11.50
60	14.70	11.60	13.50
70	16.70	13.60	15.50
80	18.70	15.60	17.50
90	20.70	17.60	19.50
100	22.70	19.60	21.50

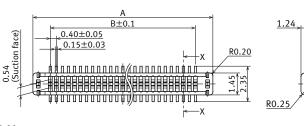
Dimensions Mated height	D
1.5 mm	1.45
2.5 mm	2.45
3.0 mm	2.45

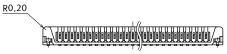
■ Header (Mated height: 1.5 mm, 2.5 mm)

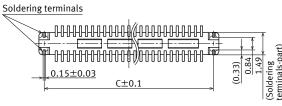




External dimensions







Note: The soldering terminal dimentions of headers with mated heights of 1.5 mm/2.5 mm and 3.0 mm are different.

Dimension table

Terminal coplanarity

≥ 0.08

(Post and soldering

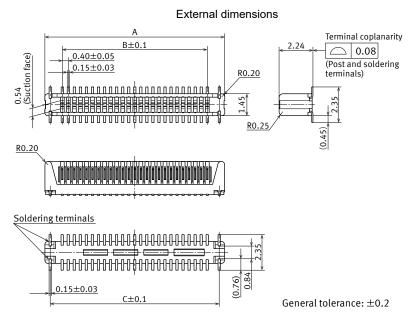
General tolerance: ±0.2

Dimensions lumber of pins	Α	В	С
10	3.90	1.60	3.20
16	5.10	2.80	4.40
20	5.90	3.60	5.20
24	6.70	4.40	6.00
26	7.10	4.80	6.40
30	7.90	5.60	7.20
34	8.70	6.40	8.00
38	9.50	7.20	8.80
40	9.90	7.60	9.20
50	11.90	9.60	11.20
60	13.90	11.60	13.20
70	15.90	13.60	15.20
80	17.90	15.60	17.20
90	19.90	17.60	19.20
100	21.90	19.60	21.20

■ Header (Mated height 3.0 mm)

CAD



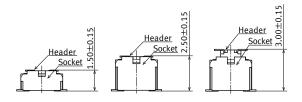


Note: The soldering terminal dimentions of headers with mated heights of 1.5 mm/2.5 mm and 3.0 mm are different.

Dimension table

Dimensions Number of pins	А	В	С
20	5.90	3.60	5.20
30	7.90	5.60	7.20
60	13.90	11.60	13.20
80	17.90	15.60	17.20
100	21.90	19.60	21.20

■ Socket and Header are mated

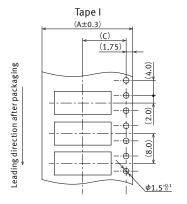


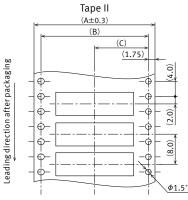
EMBOSSED TAPE DIMENSIONS

Unit: mm

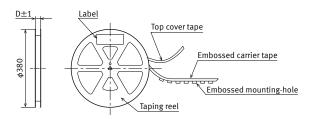
■Specifications for taping

In accordance with JIS C 0806:1990. However, not applied to the mounting-hole pitch of some connectors.





■ Specifications for the plastic reel In accordance with EIAJ ET-7200B.



■ Dimension table

Type/Mated height	Number of pins	Type of taping	А	В	С	D	Quantity per reel
Common for sockets and	10 to 24	Tape I	16.0	_	7.5	17.4	3,000
headers	26 to 70	Tape I	24.0	_	11.5	25.4	3,000
1.5 mm, 2.5 mm, 3.0 mm	80 to 100	Tape II	32.0	28.4	14.2	33.4	3,000

■ Connector orientation with respect to embossed tape feeding direction

There is no indication on this product regarding top-bottom or left-right orientation.

Type	Common for P4SP				
of tape progress	Socket	Header			
•					

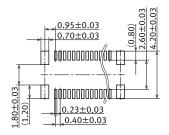
NOTES Unit: mm

- Design of PC board patterns
 Conduct the recommended foot pattern design, in order to
- Recommended PC board and metal mask patterns
 Connectors are mounted with high pitch density, intervals of
 0.35 mm, 0.4 mm or 0.5 mm. In order to reduce solder and
 flux rise, solder bridges and other issues make sure the proper

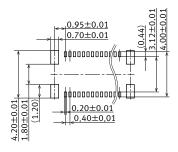
preserve the mechanical strength of terminal solder areas.

- The figures are recommended patterns. Please use them as a reference.
- Socket (Mated height 1.5 mm, 2.5 mm, 3.0 mm)
- Recommended PC board pattern (TOP VIEW)

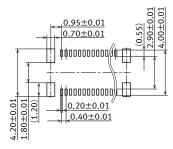
levels of solder is used.



■ Recommended metal mask pattern Metal mask thickness: When 150 µm (Terminal opening ratio: 48%) (Metal-part opening ratio: 100%)

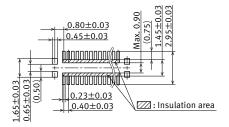


● Recommended metal mask pattern Metal mask thickness: When 120 µm (Terminal opening ratio: 60%) (Metal-part opening ratio: 100%)

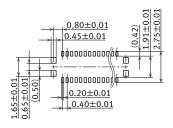


High Current Connectors P4SP (0.4 mm pitch)

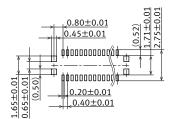
- Header (Mated height 1.5 mm, 2.5 mm)
- Recommended PC board pattern (TOP VIEW)



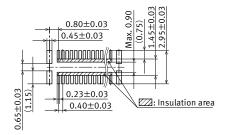
 Recommended metal mask pattern Metal mask thickness: When 150 μm (Terminal opening ratio: 49%) (Metal-part opening ratio: 100%)



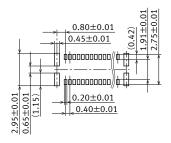
 Recommended metal mask pattern Metal mask thickness: When 120 μm (Terminal opening ratio: 60%) (Metal-part opening ratio: 100%)



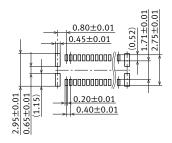
- Header (Mated height 3.0 mm)
- Recommended PC board pattern (TOP VIEW)



 Recommended metal mask pattern Metal mask thickness: When 150 μm (Terminal opening ratio: 49%) (Metal-part opening ratio: 100%)



Recommended metal mask pattern
 Metal mask thickness: When 120 μm
 (Terminal opening ratio: 60%)
 (Metal-part opening ratio: 100%)



Note: The recommended PC board pattern diagrams and metal mask pattern diagrams for headers with mated heights of **1.5 mm/2.5 mm** and **3.0 mm** are different.

- 8 **—**

Please refer to "the latest product specifications" when designing your product.

•Requests to customers:

https://industrial.panasonic.com/ac/e/salespolicies/

About safety remarks

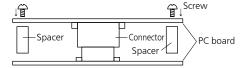
Observe the following safety remarks to prevent accidents and injuries.

- Do not use these connectors beyond the specification sheets. The usage outside of specified rated current, dielectric strength, and environmental conditions and so on may cause circuitry damage via abnormal heating, smoke, and fire.
- In order to avoid accidents, your thorough specification review is appreciated. Please contact our sales representative if your usage is out of the specifications. Otherwise, Panasonic Corporation cannot guarantee the quality and reliability.
- Panasonic Corporation is consistently striving to improve quality and reliability. However, the fact remains that electrical components and devices generally cause failures at a given statistical probability. Furthermore, their durability varies with use environments or use conditions. In this respect, please check for actual electrical components and devices under actual conditions before use. Continued usage in a state of degraded condition may cause the deteriorated insulation, thus result in abnormal heat, smoke or firing. Please carry out safety design and periodic maintenance including redundancy design, design for fire spread prevention, and design for malfunction prevention so that no accidents resulting in injury or death, fire accidents, or social damage will be caused as a result of failure of the products or ending life of the products.

Regarding the design of devices and PC board patterns

- When using board to board connectors, a pair of board shall NOT be connected with multiple connectors.
 Otherwise, misaligned connector positions may cause mating failure or product breakage. Panasonic corporation does not guarantee the failures caused by using the multiple connectors.
- With mounting equipment, there may be up to a ±0.2 to 0.3 mm error in positioning. Be sure to design PC boards and patterns while taking into consideration the performance and abilities of the required equipment.
- Some connectors have tabs embossed on the body to aid in positioning. When using these connectors, make sure that the PC board is designed with positioning holes to match these tabs.
- To ensure the required mechanical strength when soldering the connector terminals, make sure the PC board meets recommended PC board pattern design dimensions given.
- PC board
 Control the thicknesses of the cover lay and adhesive to prevent poor soldering. This connector has no stand-off.
 Therefore, minimize the thickness of the cover lay, etc. so as to prevent the occurrence of poor soldering.
- For all connectors of the narrow pitch series, to prevent the PC board from coming off during vibrations or impacts, and to prevent loads from falling directly on the soldered portions, be sure to design some means to fix the PC board in place.

Example) Secure in place with screws



When connecting PC boards, take appropriate measures to prevent the connector from coming off.

- When mounting connectors on a FPC
 - When the connector soldered to FPC is mated or unmated, solder detachment may occur by the force to the terminals.
 - Connector handling is recommended in the condition when the reinforcing plate is attached to the backside of FPC where the connector is mounted. The external dimension of the reinforcing plate is recommended to be larger than the dimension of "Recommended PC board pattern" (extended dimension of one side is approximately 0.5 to 1.0 mm). The materials and thickness of the reinforcing plate are glass epoxy or polyimide (thickness 0.2 to 0.3 mm) or SUS (thickness 0.1 to 0.2 mm).
 - As this connector has temporary locking structure, the connector mating may be separated by the dropping impact depend on the size, weight or bending force of the FPC. Please consider the measures at usage to prevent the mating separation.
- The narrow pitch connector series is designed to be compact and thin. Although ease of handling has been taken into account, take care when mating the connectors, as displacement or angled mating could damage or deform the connector.

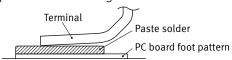
Regarding the selection of the connector placement machine and the mounting procedures

- Select the placement machine taking into consideration the connector height, required positioning accuracy, and packaging conditions.
- Be aware that if the chucking force of the placement machine is too great, it may deform the shape of the connector body or connector terminals.
- Be aware that during mounting, external forces may be applied to the connector contact surfaces and terminals and cause deformations.
- Depending on the size of the connector being used, self alignment may not be possible. In such cases, be sure to carefully position the terminal with the PC board pattern.
- The positioning bosses give an approximate alignment for positioning on the PC board. For accurate positioning of the connector when mounting it to the PC board, we recommend using an automatic positioning machine.
- In case of dry condition, please note the occurrence of static electricity. The product may be adhered to the embossed carrier tape or the cover tape in dry condition. Recommended humidity is from 40 to 60% RH and please remove static electricity by ionizer in manufacturing process.

Regarding soldering

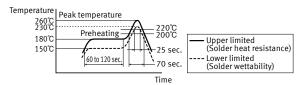
Reflow soldering

- Measure the recommended profile temperature for reflow soldering by placing a sensor on the PC board near the connector surface or terminals. (Please refer to the specification for detail because the temperature setting differs by products.)
- As for cream solder printing, screen printing is recommended.
- When setting the screen opening area and PC board foot pattern area, refer the recommended PC board pattern and window size of metal mask on the specification sheet, and make sure that the size of board pattern and metal mask at the base of the terminals are not increased.
- Please pay attentions not to provide too much solder. It makes miss mating because of interference at soldering portion when mating.



- When mounting on both sides of the PC board and the connector is mounting on the underside, use adhesives or other means to ensure the connector is properly fixed to the PC board. (Double reflow soldering on the same side is possible.)
- The condition of solder or flux rise and wettability varies depending on the type of solder and flux. Solder and flux characteristics should be taken into consideration and also set the reflow temperature and oxygen level.

- Do not use resin-containing solder. Otherwise, the contacts might be firmly fixed.
- Soldering conditions Please use the reflow temperature profile conditions recommended below for reflow soldering. Please contact our sales representative before using a temperature profile other than that described below (e.g. lead-free solder)



For products other than the ones above, please refer to the latest product specifications.

- The temperature profiles given in this catalog are values measured when using the connector on a resin-based PC board. When performed reflow soldering on a metal board (iron, aluminum, etc.) or a metal table to mount on a FPC, make sure there is no deformation or discoloration of the connector before mounting.
- Please contact our sales representative when using a screen-printing thickness other than that recommended.

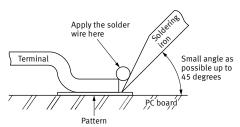
■ Hand soldering

• Set the soldering iron so that the tip temperature is less than that given in the table below.

Table A

Product name	Soldering iron temperature
SMD type connectors all products	300°C within 5 sec. 350°C within 3 sec.

- Do not allow flux to spread onto the connector leads or PC board. This may lead to flux rising up to the connector inside.
- Touch the soldering iron to the foot pattern. After the foot pattern and connector terminal are heated, apply the solder wire so it melts at the end of the connector terminals.



- Be aware that soldering while applying a load on the connector terminals may cause improper operation of the connector.
- Thoroughly clean the soldering iron.
- Flux from the solder wire may get on the contact surfaces during soldering operations. After soldering, carefully check the contact surfaces and clean off any solder before use.
- These connector is low profile type. If too much solder is supplied for hand soldering, It makes miss mating because of interference at soldering portion. Please pay attentions.

■ Solder reworking

- Finish reworking in one operation.
- In case of soldering rework of bridges. Do not use supplementary solder flux. Doing so may cause contact problems by flux.
- Keep the soldering iron tip temperature below the temperature given in Table A.

Handling single components

- Make sure not to drop or allow parts to fall from work bench.
- Excessive force applied to the terminals could cause warping, come out, or weaken the adhesive strength of the solder. Handle with care.
- Do not insert or remove the connector when it is not soldered. Forcibly applied external pressure on the terminals can weaken the adherence of the terminals to the molded part or cause the terminals to lose their evenness.

Precautions for mating

This product is designed with ease of handling. However, in order to prevent the deformation or damage of contacts and molding, take care and do not mate the connectors as shown right.

Our products are symmetrical structure. Please avoid reverse insertion of connector. Inserting a connector in a circuit direction opposite to that you intended may cause circuitry damage via abnormal heating, smoke, and fire.

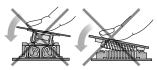
Press-fitting while the mating inlets of the socket and header are not matched.



Strongly pressed and twisted



Tilted mating



Cleaning flux from PC board

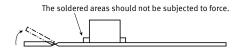
There is no need to clean this product. If cleaning it, pay attention to the following points to prevent the negative effect to the product.

- Keep the cleaning solvent clean and prevent the connector contacts from contamination.
- Some cleaning solvents are strong and they may dissolve the molded part and characters, so pure water passed liquid solvent is recommended.

Handling the PC board

Handling the PC board after mounting the connector

When cutting or bending the PC board after mounting the connector, be careful that the soldered sections are subjected to excessive force.



Storage of connectors

- To prevent problems from voids or air pockets due to heat of reflow soldering, avoid storing the connectors in areas of high humidity.
- Depending on the connector type, the color of the connector may vary from connector to connector depending on when it is produced. Some connectors may change color slightly if subjected to ultraviolet rays during storage. This is normal and will not affect the operation of the connector.
- When storing the connectors with the PC boards assembled and components already set, be careful not to stack them up so the connectors are subjected to excessive forces.
- Avoid storing the connectors in locations with excessive dust. The dust may accumulate and cause improper connections at the contact surfaces.

Other Notes

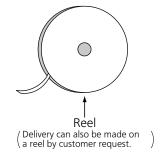
- Do not remove or insert the electrified connector (in the state of carrying current or applying voltage).
- Dropping of the products or rough mishandling may bend or damage the terminals and possibly hinder proper reflow soldering.
- Before soldering, try not to insert or remove the connector more than absolutely necessary.
- When coating the PC board after soldering the connector to prevent the deterioration of insulation, perform the coating in such a way so that the coating does not get on the connector.
- There may be variations in the colors of products from different production lots. This is normal.
- The connectors are not meant to be used for switching.
- Product failures due to condensation are not covered by warranty.

Regarding sample orders to confirm proper mounting

When ordering samples to confirm proper mounting with the placement machine, connectors are delivered in 50-piece units in the condition given right. Consult a sale representative for ordering sample units.

Embossed tape amount required for the mounting

Required number of products for sample production (Unit 50 pcs.)



Please refer to "the latest product specifications" when designing your product.

• Requests to customers:

https://industrial.panasonic.com/ac/e/salespolicies/

Panasonic Corporation Please contact Electromechanical Control Business Division ■1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan industral.panasonic.com/ac/e/

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