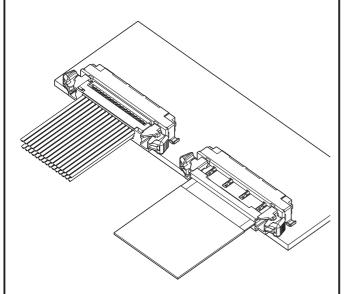


0.5mm pitch/Disconnectable Crimp style connectors/Connector for FPC and FFC



This is crimp style disconnectable connector with 0.5 mm pitch lock for highspeed transmission which can be chosen discrete wires, FPC or FFC depending on

By assuming the use of multiple pieces of connector in the vicinity, prevention of mis-mating is provided by 4 kinds of key pattern in each circuit and 4 different colors of housing.

- 4 kinds of key pattern in 4 different colors for preventing mis-mating
- The structure that is strong enough to routing of Wire/FPC/FFC
- Low insertion force
- Space saving design
- Secure lock mechanism
- High-speed transmission

Specifications -

- Current rating: 0.3 A AC, DC • Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 80 m Ω max. After environmental tests/ 160 m Ω max.

- Insulation resistance: 500 M Ω min.
- Withstanding voltage: 200 VAC/minute
- Applicable wire: Conductor size/ AWG #30

Insulation O.D./ 0.47 to 0.71 mm

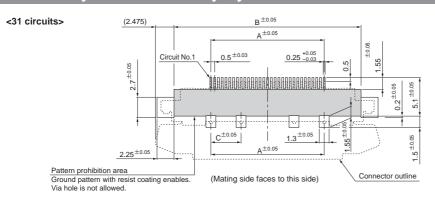
• Applicable FPC/FFC: Conductor pitch/ 0.5 mm

Conductor width/ 0.32 mm

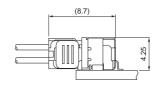
Mating part thickness/ 0.3 ± 0.03 mm

- * In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- * Contact JST for details.
- * RoHS2 compliance

PC board layout and Assembly layout



Discrete wire Socket type



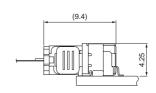
<41, 51 circuits>_(2.475) 0.5^{±0.03} Circuit No.

2.25^{±0.05} Pattern prohibition area Ground pattern with resist coating enables (Mating side faces to this side)

Note: 1. The above figure is the figure viewed from the connector mounting side

2. Tolerance for the centers of pattern on PCB is ±0.03, and shall be not cumulative more than ±0.05. The dimensions above should serve as a guideline. Contact JST for details.

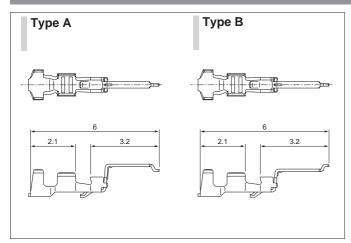
FPC/FFC Holder type



No. of	Dimensions (mn			
circuits	Α	В	С	
31	15.0	24.75	4.0	
41	20.0	29.75	4.0	
51	25.0	34.75	5.0	

Via hole is not allowed.

Contact



Model No.	Туре	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
		1111112	AWG#	O.D. (IIIIII)	1001
SFWG-003GB-P0.5-A	Α	0.05~0.06	30	0.47~0.71	30,000
SFWG-003GB-P0.5-B	В				

Material and Finish

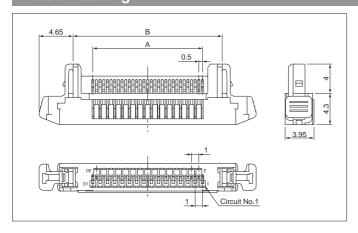
Copper alloy, nickel-undercoated, selective gold-plated

RoHS2 compliance

	Crimping	Applicator				
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies		
SFWG-003GB-P0.5-A		MKS-L-10-3	MK/SFWG-003-05	APLMK SFWG003-05		
	AP-K2N	_	_	_		
05W0 0000D D0 5 D		MKS-L-10-3	MK/SFWG-003-05	APLMK SFWG003-05		
SFWG-003GB-P0.5-B		_	_	_		

Note: Contact JST for fully automatic crimping applicator.

Holder housing



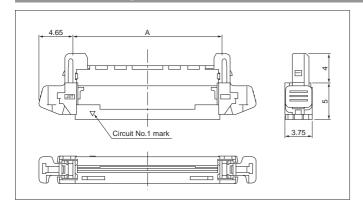
No. of	Model No.	Dimensio	Q'ty/	
circuits		Α	В	box
31	31P-FWG-Z-1	15.0	20.4	2,400

Material and Finish

Housing: PA 46, ivory Shell: Copper alloy, tin-plated (reflow treatment)

RoHS2 compliance
Note: Contact JST for the flammability.

Header housing



No. of circuits	Model No.	Dimensions (mm)	Q'ty/ box
41	FWGP-41-F-Z-1	25.4	200
51	FWGP-51-F-Z-1	30.4	200

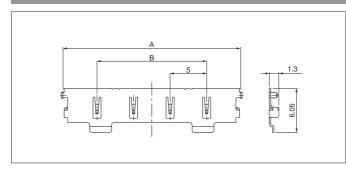
Material

PA 46, ivory

RoHS2 compliance

Note: Contact JST for the flammability.

Holder shell



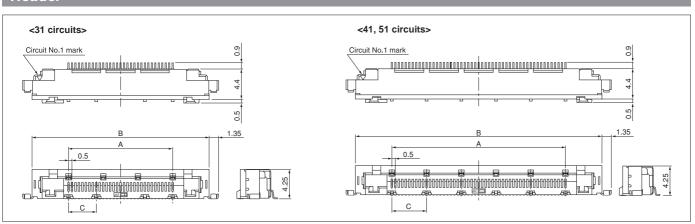
No. of	Model No.	Dimensio	Q'ty/	
circuits	Widdel No.	Α	В	reel
41	41FWG-PS2-P	24.3	15.0	10,000
51	51FWG-PS2-P	29.3	25.0	10,000

Material and Finish

Copper-alloy, tin-plated (reflow treatment)

RoHS2 compliance

Header



No. of	of Model No.		Dimensions (mm)		
circuits	iviodel No.	Α	В	С	reel
31	31FWG-RSM1-GAN-Z-1-TB	15.0	25.5	4.0	1,400
41	41FWG-RSM1-GAN-Z-1-TB	20.0	30.5	4.0	1,400
51	51FWG-RSM1-GAN-Z-1-TB	25.0	35.5	5.0	1,400

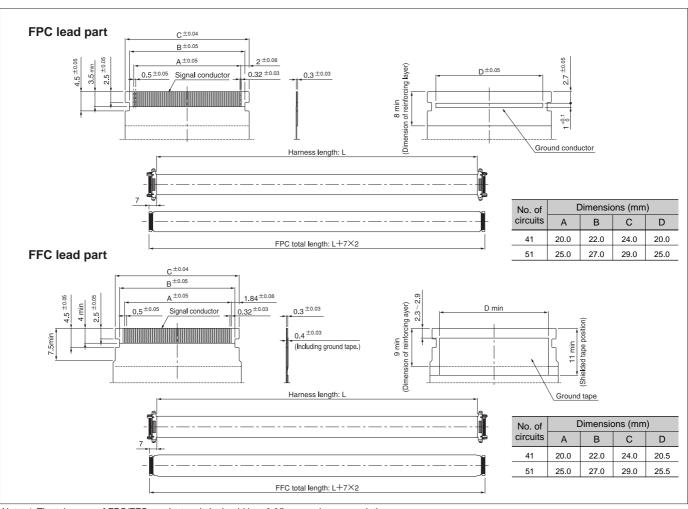
Material and Finish

Base housing: Heat resisting resin, UL94V-0, ivory Signal contact: Copper alloy, nickel-undercoated, selective gold-plated Ground contact: Copper alloy, tin-plated (reflow treatment)

RoHS2 compliance

Note: The product listed above is supplied on embossed-tape.

Lead section dimensions of FPC/FFC

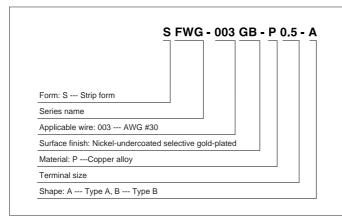


Note: 1. The tolerance of FPC/FFC conductor pitch should be ± 0.05 mm and non-cumulative.

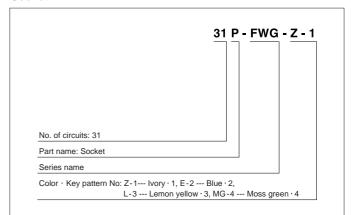
2. The dimensions above should serve as a guideline. Contact JST for details.

Model number identification

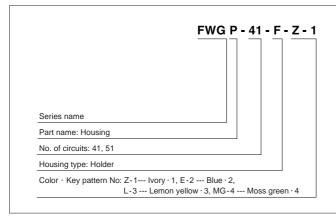
Contact



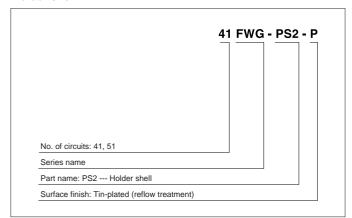
Socket



Holder housing



Holder shell



Header

