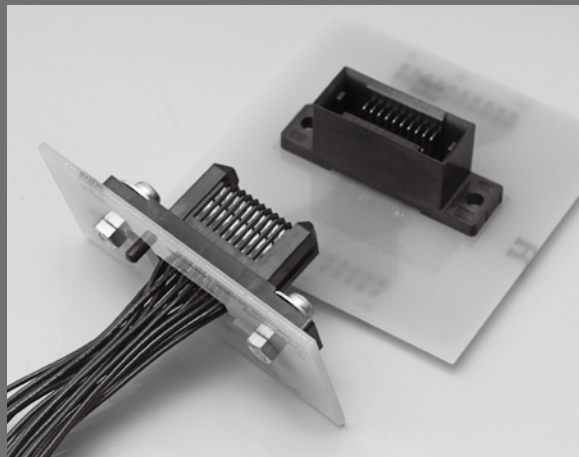


FAS SERIES

1.5mm PITCH DRAWER CONNECTOR

RoHS
Compliant



FEATURES

- ▶ Downsized by more than 30% compared to our FA Series.
- ▶ Smoothly guided insertion at a fully sufficient receiving angle (mating angle of 20°) achieved with a guide mechanisms.
- ▶ Absorbs $\pm 3\text{mm}$ gap in X and Y directions when mating.
- ▶ Floating structure of the screwed area enables $\pm 1.4\text{mm}$ displacement in X and Y directions in mated condition.
- ▶ Highly reliable design with effective contact displacement of 3.4mm (0.134").
- ▶ With a twin-leaf pinching 2 point contact structure adopted as a contact mechanism, improved reliability based on stable contact performance is ensured.
- ▶ Applicable to Hot swap is available.

ORDER CODE

FAS01- 
 ① ②

*Please order in multiples of the quantity per package.

① **[Type] FAS01** : Receptacle, (Cable side connector)

② **[Number of contacts]** 004 : 4 pin 016 : 16 pin 026 : 26 pin 028 : 28 pin 036 : 36 pin 038 : 38 pin 040 : 40 pin

*Above order code FAS01-□□□ is for the housing only, contact terminals are sold separately. About #597 order code, Please refer next page.

ORDER CODE

FAS11- 
 ① ②

*Please order in multiples of the quantity per package.

① **[Type] FAS01** : Plug, (PCB side connector)

② **[Number of contacts]** 004 : 4 pin 016 : 16 pin 026 : 26 pin 028 : 28 pin 036 : 36 pin 038 : 38 pin 040 : 40 pin

SPECIFICATIONS

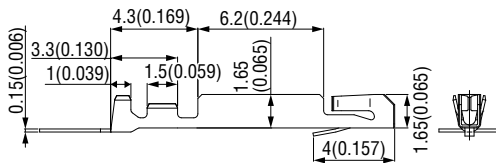
Material and plating		Electrical Characteristics	
Insulator material	Glass-filled PBT(UL94V-0), Black	Current rating	2.5A per contact (Up to 3A under certain conditions)
Contact material	[FAS01]Copper alloy [FAS11]Brass	Contact resistance	30mΩ max.
		Dielectric withstanding voltage	650V AC for 1 minute
Contact plating	[FAS01] (Contact area)Gold over Nickel (Crimping area)Tin over Nickel [FAS11] Gold over Nickel	Insulation resistance	1000MΩ min. at 500V DC
		Operating temperature	-40°C to +85°C
		Durability of insertion and withdrawal	500 times
Washer / Rivet material	Stainless steel	Recommended cable	Discrete wire cables AWG #24/26/28 (outer diameter of cable coating: $\phi 0.88$ to $\phi 1.11$ mm)

*High mating cycle endurance type (5,000 times min.) is also available, please contact your local KEL sales office.

Contact Terminal

Unit : mm(inch)

◆ Contact terminal for FAS01-□□□ receptacle (Cable side connector)



Product Table		Packaging style
		Tape&Reel
Part Number	Number of packaging	
#597□-□	10,000	

ORDER CODE

#597 -

① ② ③

*Please order in multiples of the quantity per package.

- ① **[Contact] #597** : Crimping type contact for FAS01
- ② **[Gold plating thickness]** Omit : 0.05 μ m min. D : 0.25 μ m min.
- ③ **[Recommended cable]** Omit : #26 AWG and #28 AWG
(outer diameter of cable coating: ϕ 0.88 to ϕ 1.00mm)
1 : #24 AWG (outer diameter of cable coating: ϕ 1.08 to ϕ 1.11 mm)

Assembly Tool

► Hand Tool

Part Number	CH-05
Mating Cable	#24 AWG, #26 AWG, #28 AWG
Mating Contact	#597□-□

► Crimping Machine

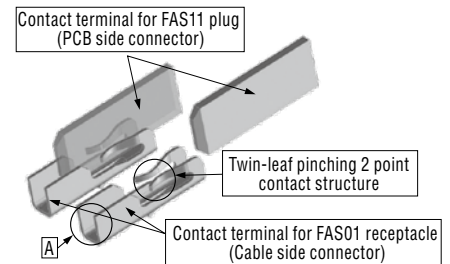
Mating Contact	#597□	#597□-1
Manufacture	JAPAN AUTOMATIC MACHINE CO., LTD	
Crimping Machine	LPC220S	
Applicator	EFS857400	EFS866100

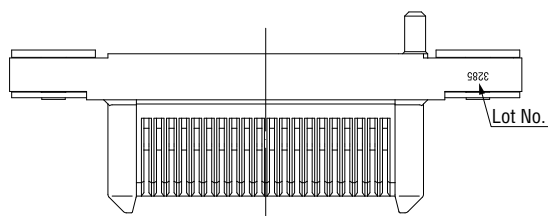
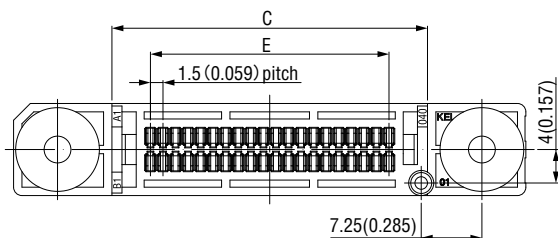
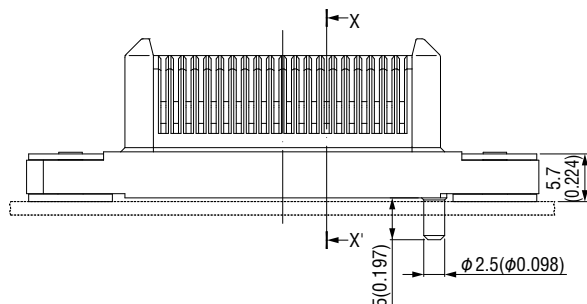
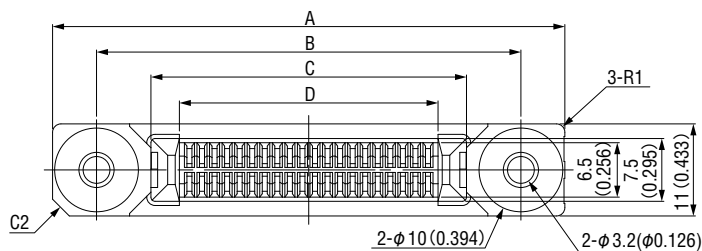
A crimping machine and applicator are available for purchase from Japan Automatic Machine Co., Ltd.

Twin-Leaf Pinching 2 Point Contact Structure

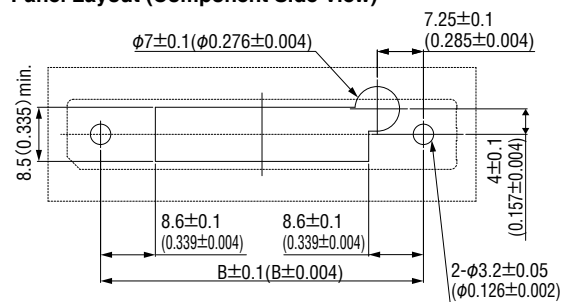
With the KEL original twin-leaf pinching 2 point contact structure, the flat plate type contact of plug connector is inserted into the contact of receptacle connector (A part of the figure on the right side) for electrical contact.

The flat plate shaped contact of plug connector is tolerant of buckling compared to pin header type contact, and the stable contact force of the pinching structure of receptacle connector assures high reliability of electrical contact.

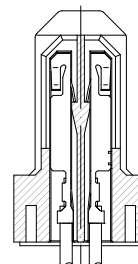




► Panel Layout (Component Side View)



X-X' Cross Section (Contact Inserted)



► Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
4	FAS01-004	34.2 (1.346)	23.7 (0.933)	10.7 (0.421)	3.9 (0.154)	1.5 (0.059)	130
16	FAS01-016	43.2 (1.701)	32.7 (1.287)	19.7 (0.776)	12.9 (0.508)	10.5 (0.413)	104
26	FAS01-026	50.7 (1.996)	40.2 (1.583)	27.2 (1.071)	20.4 (0.803)	18.0 (0.709)	91
28	FAS01-028	52.2 (2.055)	41.7 (1.642)	28.7 (1.130)	21.9 (0.862)	19.5 (0.768)	78
36	FAS01-036	58.2 (2.291)	47.7 (1.878)	34.7 (1.366)	27.9 (1.098)	25.5 (1.004)	78
38	FAS01-038	59.7 (2.350)	49.2 (1.937)	36.2 (1.425)	29.4 (1.157)	27.0 (1.063)	78
40	FAS01-040	61.2 (2.409)	50.7 (1.996)	37.7 (1.484)	30.9 (1.217)	28.5 (1.122)	65

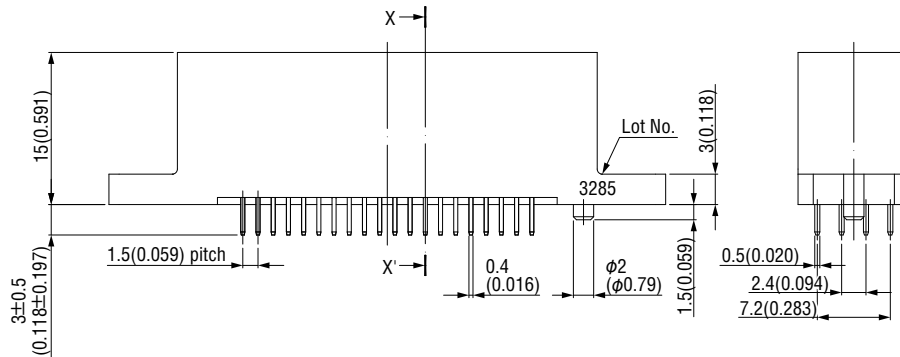
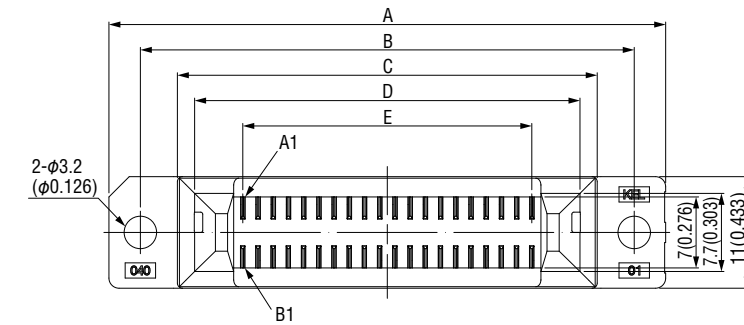
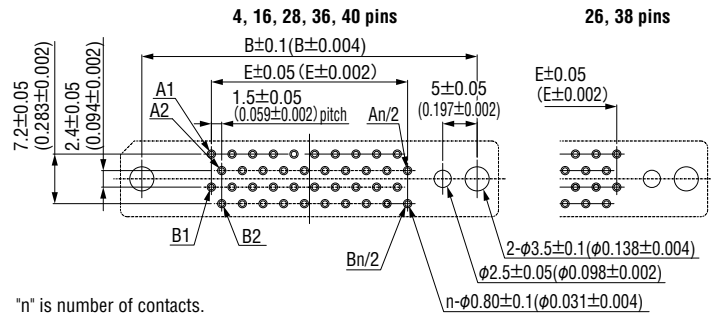
Packaging style

Tray

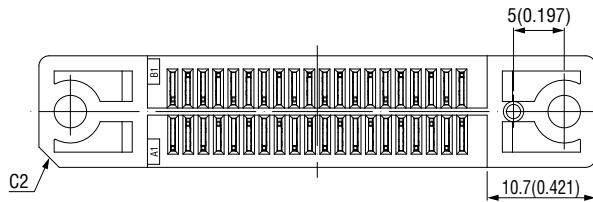
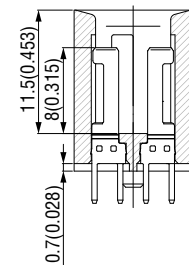
FAS11-□□□ (Plug, PCB side connector)

Unit : mm(inch)

Printed Circuit Board Layout (Component Side View)



X-X' Cross Section



Packaging style

Pipe

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
4	FAS11-004	27.9 (1.098)	21.7 (0.854)	14.4 (0.567)	11.0 (0.433)	1.5 (0.059)	18
16	FAS11-016	36.9 (1.453)	30.7 (1.209)	23.4 (0.921)	20.0 (0.787)	10.5 (0.413)	13
26	FAS11-026	44.4 (1.748)	38.2 (1.504)	30.9 (1.217)	27.5 (1.083)	18.0 (0.709)	11
28	FAS11-028	45.9 (1.807)	39.7 (1.563)	32.4 (1.276)	29.0 (1.142)	19.5 (0.768)	11
36	FAS11-036	51.9 (2.043)	45.7 (1.799)	38.4 (1.512)	35.0 (1.378)	25.5 (1.004)	9
38	FAS11-038	53.4 (2.102)	47.2 (1.858)	39.9 (1.571)	36.5 (1.437)	27.0 (1.063)	9
40	FAS11-040	54.9 (2.161)	48.7 (1.917)	41.4 (1.630)	38.0 (1.496)	28.5 (1.122)	9

~ M E M O ~



B.C.E. s.r.l.

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