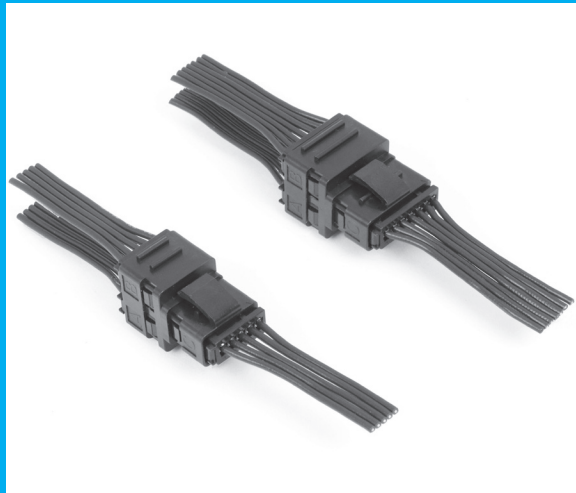


FK SERIES

2.1mm PITCH CRIMP CONNECTOR FOR BRANCH AND RELAY

UL **US** *UL cUL File No. E509060
(Recognized Component)

RoHS
Compliant



FEATURES

- ▶ Branching and relaying contributes to reducing wiring and making devices smaller and lighter.
- ▶ Partial replacement by branching and relaying connectors contributes to improving the maintainability of devices.
- ▶ Keying and marking for mating identification prevents incorrect insertion and improving workability.
- ▶ The locking mechanism is robust and has a click feeling.
- ▶ The locking section has a flat structure with no unevenness on the locking surface to prevent damage.
- ▶ The connector can be fixed in any position with panel mount structure (compatible thickness: 0.8mm to 1.5mm) or using a cable tie (recommended width: 2.5mm).
- ▶ 2 point contact structure prevents contact buckling and improves reliability with stable contact force.

ORDER CODE

FK01 -  - 
① ② ③

*Please order in multiples of the quantity per package.

- ① **[Type]** **FK01** : Receptacle (Cable side connector)
- ② **[Number of contacts]** **05** : 5pin **07** : 7pin
- ③ **[Housing type]** **A** : A **B** : B **C** : C

*Above order code FK01-□□-□ is for housing only, crimp contact are sold separately. About contact order code, please refer next page.

ORDER CODE

FK11 -  
① ②

*Please order in multiples of the quantity per package.

- ① **[Type]** **FK11** : Plug (Cable-branch / relay connector)
- ② **[Number of contacts]** **05** : 5pin **07** : 7pin

SPECIFICATIONS

Material and plating		Electrical characteristics	
Insulator material	Glass-filled PBT (UL94V-0), Black	Rated current	Refer the next page "Rated current table"
		Standard Rated voltage	250V AC·DC
		Rated voltage for UL UL1977 *UL cUL File No. E509060	30V AC·DC
Contact material	Copper alloy	Contact resistance	20 mΩ max.
		Dielectric withstanding voltage	1000V AC for 5 minutes
		Insulation resistance	1000MΩ min. at 500V DC
Contact plating	(Contact area)Gold over nickel (Crimping area)Nickel	Operating temperature	-55°C to +105°C
		Durability of insertion and withdrawal	50 times
		Applicable cable	#22/24/26/28 AWG Discrete wire cables (Outer diameter of cable coating: Φ0.8 to 1.7mm)

Rated current table

◆ Standard Rated current

Unit: A (per contact)

Mating matrix			Cable size			
Receptacle	Plug	Number of contacts	AWG#22	AWG#24	AWG#26	AWG#28
FK01-□□-□	FK11-□□	5	5.5	4.5	4.0	3.0
		7	5.0	4.0	3.5	2.5

◆ Rated current for UL UL1977 *UL cUL File No. E509060

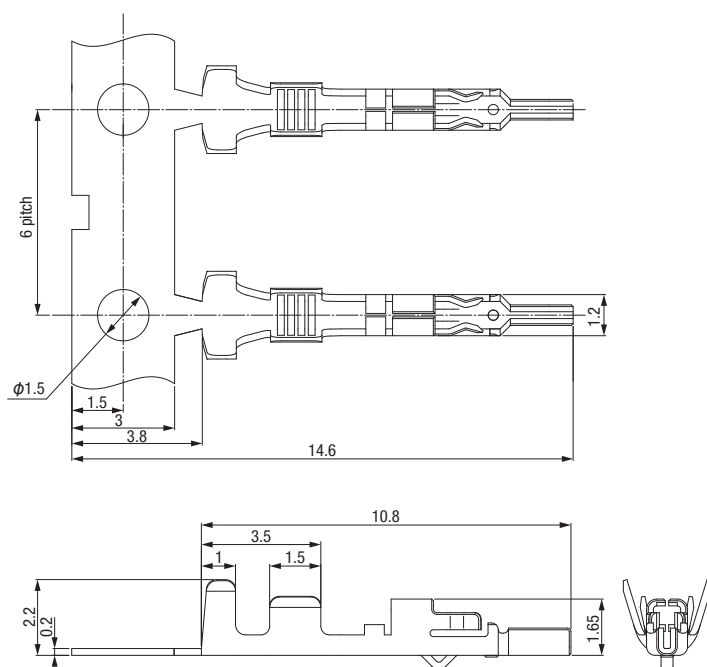
Unit: A (per contact)

Mating matrix			Cable size			
Receptacle	Plug		AWG#22	AWG#24	AWG#26	AWG#28
FK01-□□-□	FK11-□□		5.0	4.0	3.5	2.5

Crimp contact

Unit : mm

◆ Crimp contact for FK01-□□-□ (Cable side connector)



ORDER CODE

#696

①

*Please order in multiples of the quantity per package.

① **[Contact name]** #696 : Crimp contact for FK01

▶ Product table

		Packaging style
Part number	No. of packaging	Reel
#696	10,000	

Assembly tool

▶ Crimping hand tool

Part number	CH-20
Applicable cable size	AWG#22/24/26/28 (Outer diameter of cable coating: Φ 1.1 to 1.7mm)
Crimp contact	#696

▶ Crimping machine

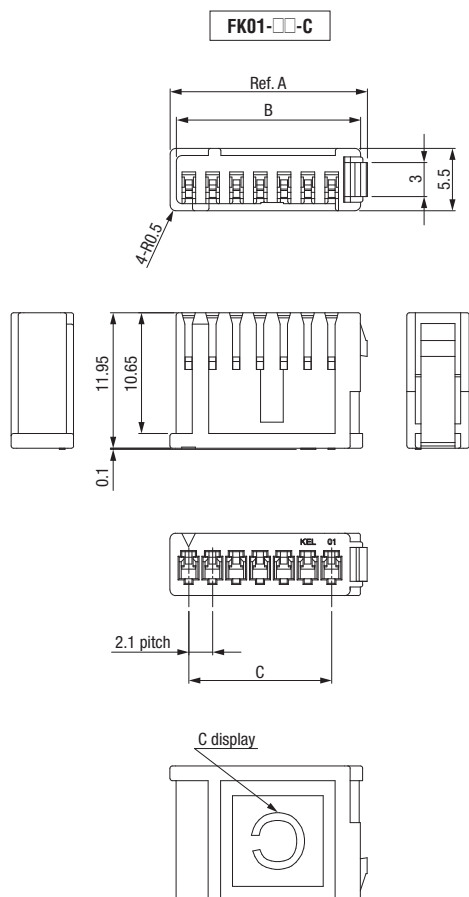
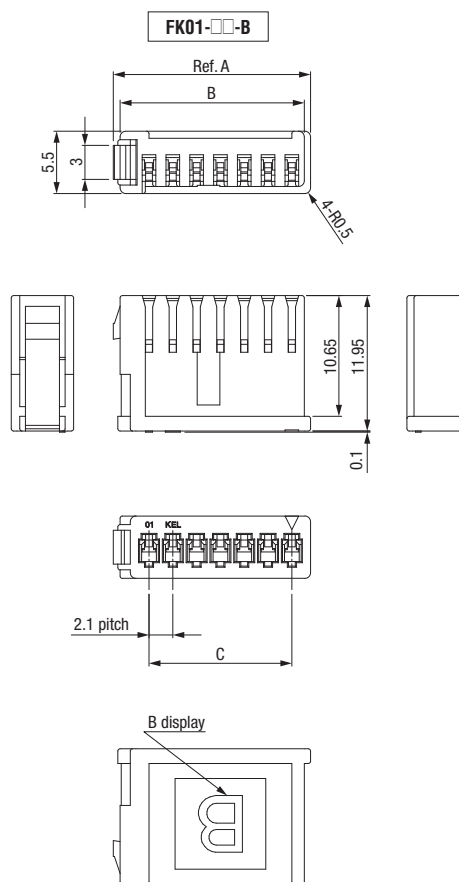
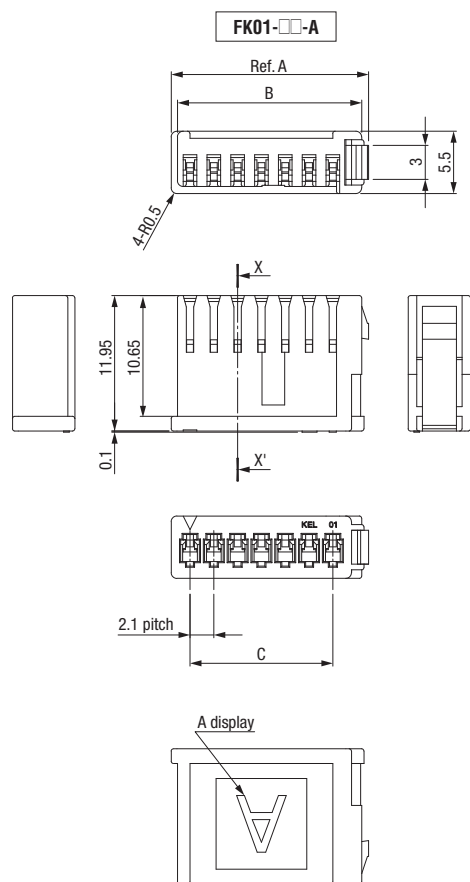
Crimp contact	#696
Manufacturer	Japan Automatic Machine Co., Ltd.
Crimping machine	LPC220S
Applicator	EFX075900K-UP

*Outer diameter of cable coating: Φ 0.8 to 1.7mm

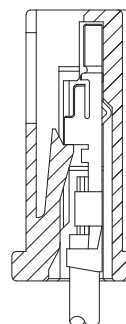
*A crimping machine and applicator can be purchased from Japan Automatic Machine Co., Ltd.

FK01-□□-□ (Receptacle, Cable side connector)

Unit : mm



**X-X' Cross section
(With the contact inserted)**

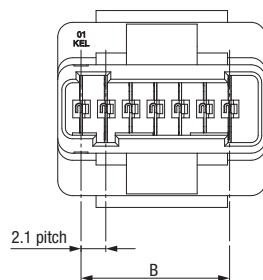
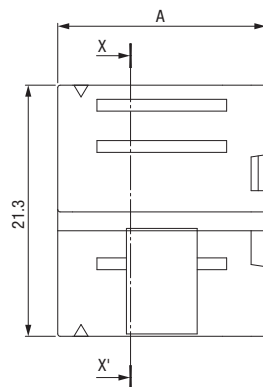
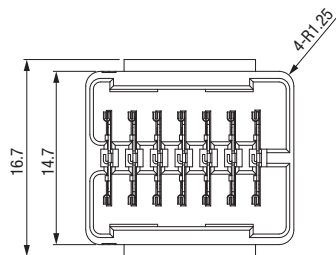
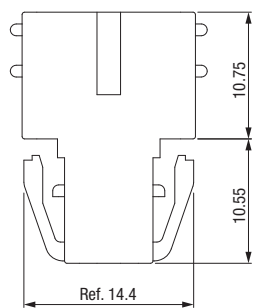
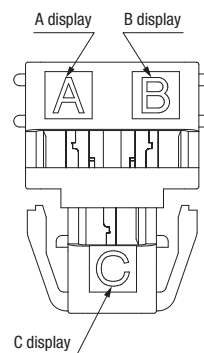
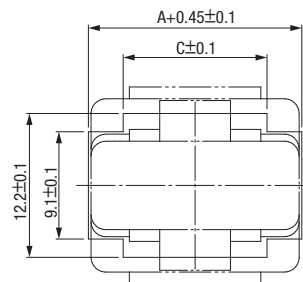
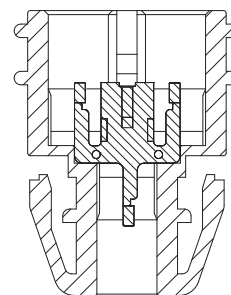


Packaging style

Other

Product table / Dimensions

No. of contacts	Part number	A	B	C	No. of packaging
5	FK01-05-□	13.2	12.05	8.4	800
7	FK01-07-□	17.4	16.25	12.6	700


Panel layout (Component side view)

X-X' Cross section

Product table / Dimensions

No. of contacts	Part number	A	B	C	No. of packaging
5	FK11-05	13.45	8.4	8.0	37
7	FK11-07	17.65	12.6	12.2	28

Packaging style

Pipe