KE	
	FW SERIES Compliance with Electrical Appliance and Material Safety Law Clearance distance and creepage distance of insulator) 5.0mm PITCH WATERPROOF CONNECTOR CONFORMING TO IP67 STANDARD
	 FEATURES The smallest class external dimensions with 5.0mm pitch waterproof connector. Stable connection design of 3 point contact structure having same shape contacts on the plug side and the receptacle side. The crimp applicator can be used in common because the crimp contact on the plug side and the receptacle side have the same shape. Highly reliable design with an effective mating length of 1.5mm(0.059"). Wiring can be reduced by mating FWP11 (Plug side) to FWB01 (Receptacle side / Branch relay type). The cable seal and the sealing ring are built in the connector housing. The locking mechanism is robust and has a click feeling. The locking mechanism is robust and black. (FWB01 has only two colors, white and black.) The loce of a cable seal, black, light blue and pink, are available according to the outer diameter of the cable coating. Dummy pins for closing the cable insertion hole are available. Dummy pin color are set to 2 colors, white and black, according to cable covering outer diameter.
	ORDER CODE FWP01 1 2 3 4 *Please order in multiples of the quantity per package. 1 [Type] FWP01 : Receptacle (Cable-relay connector) 2 [Number of contacts] 02 : 2pin 03 : 3pin 04 : 4pin 3 [Housing color] 1 : White 2 : Red 3 : Blue 4 : Black (4) [Cable seal color] 1 : Black (Cable covering diameter: \$\varphi\$ 1.9 to 2.7mm)
	 Construction of the function of t
	 (Number of contacts) 02:2pin 03:3pin 04:4pin (Housing color) 1: White 4: Black ORDER CODE FWP11
	(1) [Type] (Wr11: Find (Cable-fend Connector)] (2) [Number of contacts] 02: 2pin 03: 3pin 04: 4pin (3) [Housing color] 1: White 2: Red 3: Blue 4: Black (4) [Cable seal color] 1: Black (Cable outer diameter: φ 1.9 to 2.7mm) 2: Light blue (Cable outer diameter: φ 2.7 to 3.1mm)

* FWP01/11-00-00 is sold for housing only and crimp terminals are sold separately. For the order code of the crimp contact, please refer to the next page.
 * The combination of the crimp contact and cable seal may change depending on the outer diameter of the cable cover.
 For more information, please contact your local KEL sales office.

SPECIFICATIONS

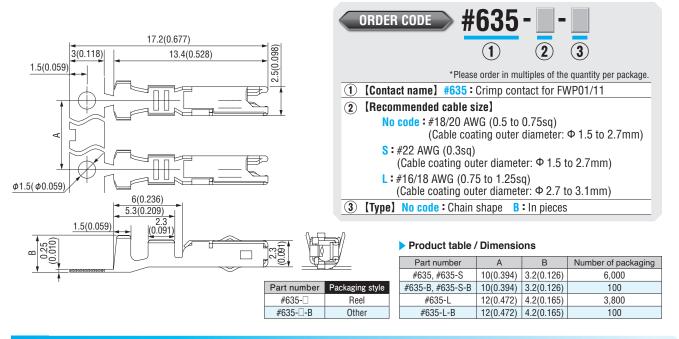
Mater	rial and plating	Electrical characteristics		
Housing material	Glass filled PBT (UL94V-0) [FWP] Color: White, Red, Blue, Black	Rated current	(AWG#16) 10A MAX per contact (AWG#18/20/22) 7A MAX per contact	
	[FWB] Color: White, Black	Protection grade	IP67	
Oshla asal matarial	Silicone rubber (Secondary vulcanized) Color: Black, Light blue, Pink	Contact resistance	[FWP] 10mΩ max. [FWB] 20mΩ max.	
Cable seal material		Dielectric withstanding voltage	1,700V AC for 1 minute	
	Silicone rubber (Secondary vulcanized)	Insulation resistance	1,000MΩ min. at 500V DC	
Sealing ring material		Operating temperature	-55°C to +105°C	
Contact material	Copper alloy	Durability of insertion and withdrawal	50 times	
Contact plating	(Contact area / Crimping area) Tin over Nickel	Recommended cable	#16/18/20/22 AWG Discrete wire cables (0.3 to 1.25sq) (Cable covering diameter: φ1.5 to 3.1mm)	

KEL

Unit:mm(inch)

Crimp contact

Crimp contact for FWP01/11-00-00 (Cable-relay connector)



Assembly tool

Crimping hand tool

Part Number	CH-19
Applicable cable size	#16/18/20/22 AWG
Crimp contact	#635-□, #635-S-□, #635-L-□

*Please note that the recommended cable differs depending on the contact. *Use CH-15 when crimping #635-L to AWG #18 cables.

Please contact your KEL sales representative to purchase the CH-15.

Crimping machine

Crimp contact	#635, #635-S	#635-L		
Manufacturer	JAPAN AUTOMATIC MACHINE CO., LTD.			
Crimping machine	LPC220S			
Applicator	CFX030500K-UP	CFX046400K-UP		

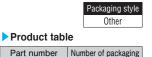
*Please purchase the crimping machine and the applicator from Japan Automatic Machine Co.,Ltd.

Dummy pin

Dummy pin for FW Series

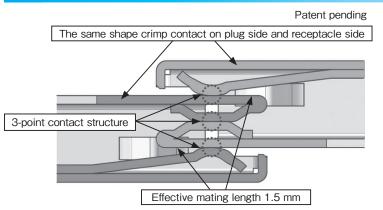


 (1) [Type] FWP: Dummy pin for FW Series
 (2) [Dummy pin color] 1: White (Applicable cable seal: Black, Light blue) 2: Black (Applicable cable seal: Pink)



1,000

ack (Applicable cable seal: Pink) ______ FWP-D

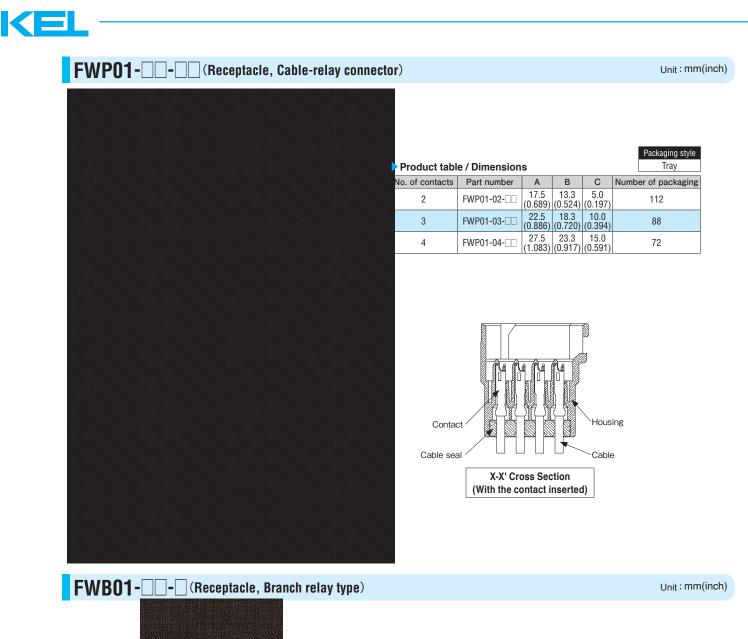


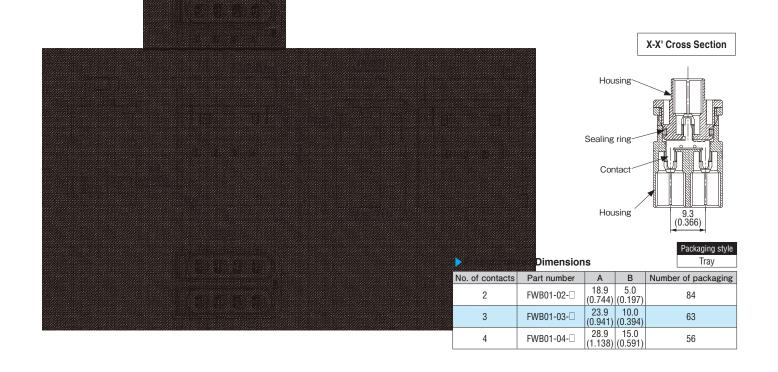
FW series adopts the same shape crimp contact on the plug side and the receptacle side.

3-point contact structure and independent spring mechanism realize stable connection.

The crimp contact has the same shape on the plug side and the receptacle side, so the crimp applicator can be used in common.

3-point contact with the same shape crimp contact on plug side and receptacle side

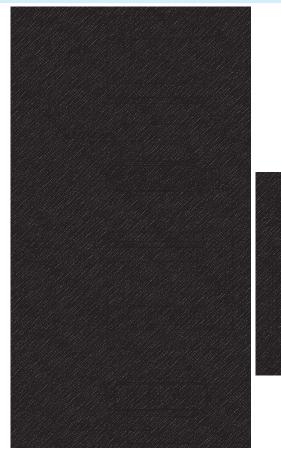




FWP11-___(Plug, Cable-relay connector)

KEL

Unit:mm(inch)



Product tab	Packaging style Tray				
No. of contacts	Number of packaging				
2	FWP11-02-0	11.9 (0.469)	15.45 (0.608)	5.0 (0.197)	112
3	FWP11-03-	16.9 (0.665)	20.45 (0.805)	10.0 (0.394)	88
4	FWP11-04-0	21.9 (0.862)	25.45 (1.002)	15.0 (0.591)	72

