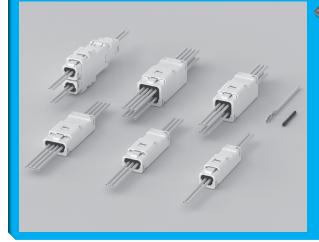
# KEL





# FEATURES

- The smallest class external dimensions with 2.0mm pitch waterproof connector.
- Stable connection design of 4-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.
- Wiring can be reduced by mating FWSP1A (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 housing color can be selected from white, red and black.
- Two colors of cable seal, blue and orange, are available according to the outer diameter of the cable coating.
- Dummy pins for closing the cable insertion hole are available.

ORDER CODE	FWSP0A-			
	1	2	3	4

\*Please order in multiples of the quantity per package.

1	[Тур	e)	FWSP	0A :	Re	cepta	acle	((	Cable-	rela	ıy	conne	ect	or)	
0							-			-					

- (2) [Number of contacts] 02:2pin 03:3pin 04:4pin 06:6pin 08:8pin
- (3) [Housing color] 1: White 2: Red 3: Black
- (4) [Cable seal color] 3: Blue (Cable outer diameter  $\phi$  1.3 to 1.7mm) 4: Orange (Cable outer diameter  $\phi$  1.0 to 1.3mm)

3

(2)

ORDER CODE FWSB01-02-1

(1) [Type] FWSB01 : Receptacle (cable-branch / relay connector)

 $(\mathbf{1})$ 

- (2) [Number of contacts] 02: 2pin
- (3) (Housing color) 1: White



\*Please order in multiples of the quantity per package.

\*Please order in multiples of the quantity per package.

() [Type] FWSP1A: Plug (Cable-relay connector)

(2) [Number of contacts] 02:2pin 03:3pin 04:4pin 06:6pin 08:8pin

(3) (Housing color) 1: White 2: Red 3: Black

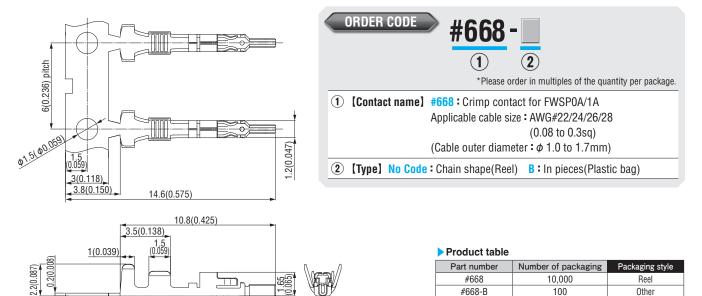
(4) [Cable seal color] 3: Blue (Cable outer diameter  $\phi$  1.3 to 1.7mm) 4: Orange (Cable outer diameter  $\phi$  1.0 to 1.3mm)

\*FWSP0A/1A-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.

## SPECIFICATIONS

М	aterial and plating	Electrical characteristics				
	Glass filled PBT (UL94V-0)	Rated current	3A max. per contact			
Housing material	(FWSP) Color: White, Red, Black (FWSB) Color: White	Protection grade	IP67			
		Contact resistance	[FWSP] 10m $\Omega$ max. [FWSB] 20m $\Omega$ max.			
Cable seal material	Silicone rubber Color: Blue, Orange	Dielectric withstanding voltage	1000V AC for 1 minute			
		Insulation resistance	1,000MΩ min. at 500V DC			
Sealing ring material	Silicone rubber	Operating temperature	-55°C to +105°C			
Contact material	Copper alloy	Durability of insertion and withdrawal	50 times			
Contact plating	(FWSP) Reflow tin over Copper (FWSB)Tin over Nickel	Applicable cable	#22/24/26/28 AWG Discrete wire cables (0.08 to 0.3sq) (Cable outer diameter: φ1.0 to 1.7mm)			

### **Crimp contact**



# Assembly tool

#### Crimping hand tool

Part number	CH-20
Applicable cable size	AWG#22/24/26/28
Crimp contact	#668-□

Crimping machine	
Crimp contact	#668-□
Manufacturer	Japan Automatic Machine Co.,Ltd.
Crimping machine	LPC220S
Applicator	EFX075900K-UP

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

### **Dummy pin**

Dummy pin for FWSP0A/1A-DD-DD



	Packaging style Other
Product table	le
Part number	Number of packaging
FWSP-1	1 000

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

The same shape crimp contact on	Cross section view for crimp contact
plug side and receptacle side	4-point contact

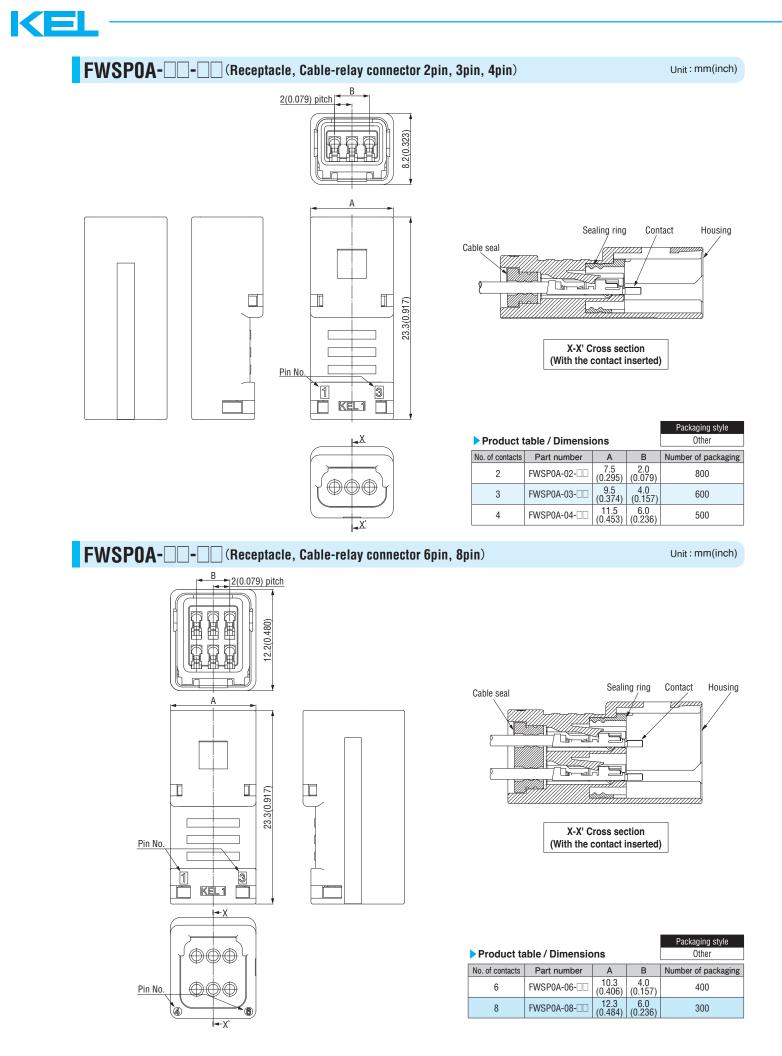
. .

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

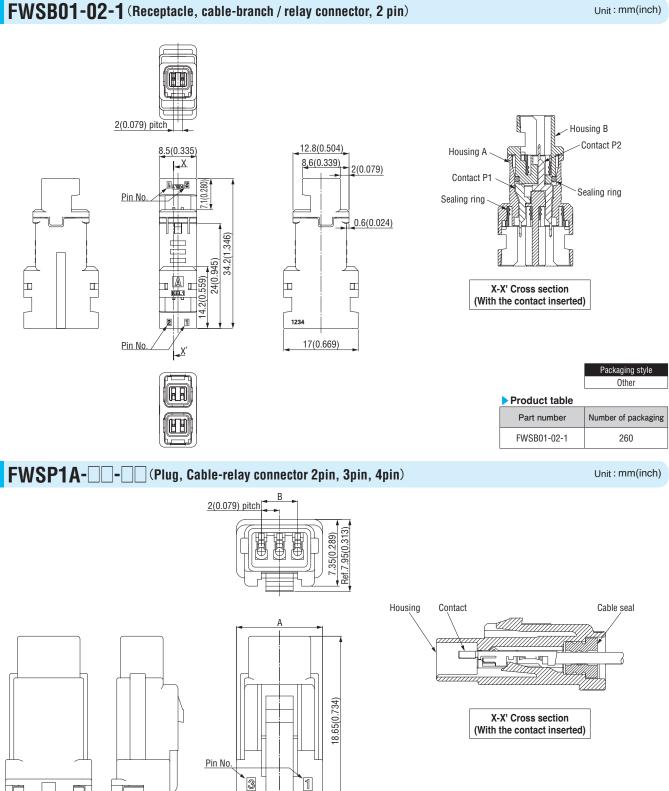
4-point contact structure and independent spring mechanism realize stable connection.

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



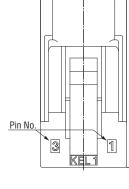


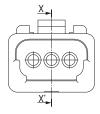
# FWSB01-02-1 (Receptacle, cable-branch / relay connector, 2 pin)

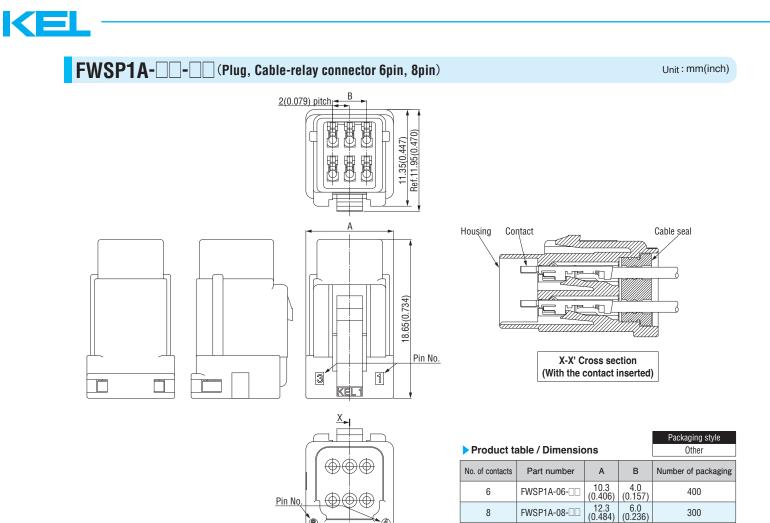


D. J. J.	Packaging style			
Product ta	Other			
No. of contacts	Part number	A	В	Number of packaging
2	FWSP1A-02-	7.5 (0.295)	2.0 (0.079)	800
3	FWSP1A-03-	9.5 (0.374)	4.0 (0.157)	600
4	FWSP1A-04-	11.5 (0.453)	6.0 (0.236)	500

EL







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