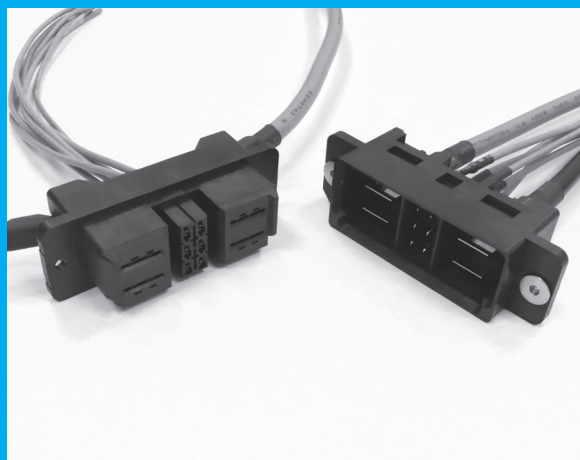


FG SERIES

50 A DRAWER CONNECTOR

RoHS
Compliant



FEATURES

- ▶ Each power contact is rated for up to 50 A.
- ▶ Space-saving is achieved by combining two power contacts and six signal contacts in a single connector.
- ▶ The multi-point contact structure prevents contact buckling and provides stable contact force for improved reliability. (Power contacts: 8-point contact / Signal contacts: 2-point contact)
- ▶ The guide mechanism absorbs mating misalignment of ± 3.5 mm in the X direction and ± 2.8 mm in the Y direction.
- ▶ The movable screw-mount section of the plug connector absorbs up to ± 0.7 mm in the X and Y direction.
- ▶ The effective mating lengths are 3.0 mm for power contacts and 2.4 mm for signal contacts, enabling sequential contact.

ORDER CODE

FG01-06

①

②

① **[Type]** **FG01** : Receptacle (Cable side connector)

② **[Number of contacts]** **06** : 6pin

*FG series cannot be sold separately as it provides a complete harness. Please contact our sales representative regarding cable and harness specifications.

ORDER CODE

FG11-06

①

②

① **[Type]** **FG11** : Plug (Cable-relay type)

② **[Number of contacts]** **06** : 6pin

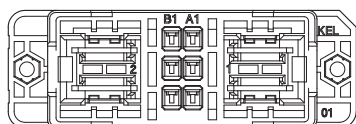
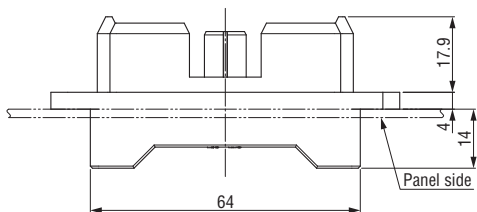
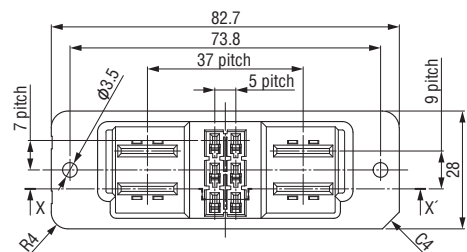
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SPECIFICATIONS

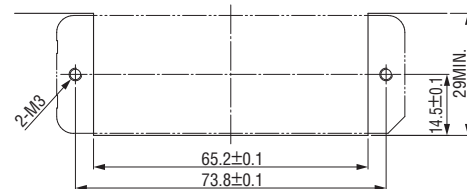
Material and plating		Electrical characteristics			
Insulator material	[FG01] Glass-filled PBT(UL94V-0), Black	Rated current	Signal contact	Power contact	
	[FG11] Glass-filled PA9T(UL94V-0), Black		3A per contact (#18/20 AWG)	50A per contact (#6 AWG) 40A per contact (#8 AWG)	
Signal / Power contact material	[FG01] Copper alloy [FG11] Brass				
Signal contact plating	[FG01] (Contact area) Gold over Nickel (Crimping area) Nickel plating [FG11] (Contact area) Gold over Nickel (Terminal area) Tin over Nickel		Contact resistance	10mΩ max.	3mΩ max.
			Dielectric withstanding voltage	1000V AC for 1 minute	2000V AC for 1 minute
		Insulation resistance	1000MΩ min. at 500V DC		
		Operating temperature range	-55℃ to +105℃		
		Durability of insertion and withdrawal	500 times		
Power contact plating	[FG01] (Contact area) Gold over Nickel (Soldering area) Gold over Nickel [FG11] (Contact area) Gold over Nickel (Soldering area) Tin over Nickel	Applicable cable	[Signal contact] #18/20 AWG (Outer diameter of cable coating: Φ1.8 to 2.8mm) Discrete wire cables [Power contact] #6/8 AWG		
Washer / Rivet material	Stainless				

FG01-06 (Receptacle, Cable side connector)

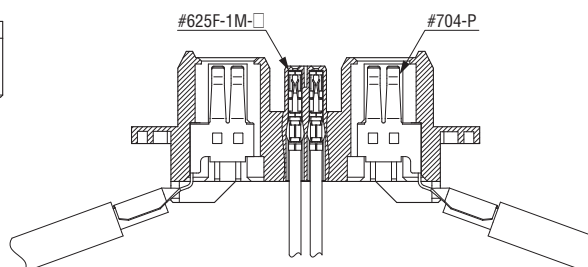
Unit : mm



Panel layout (Component side view)



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



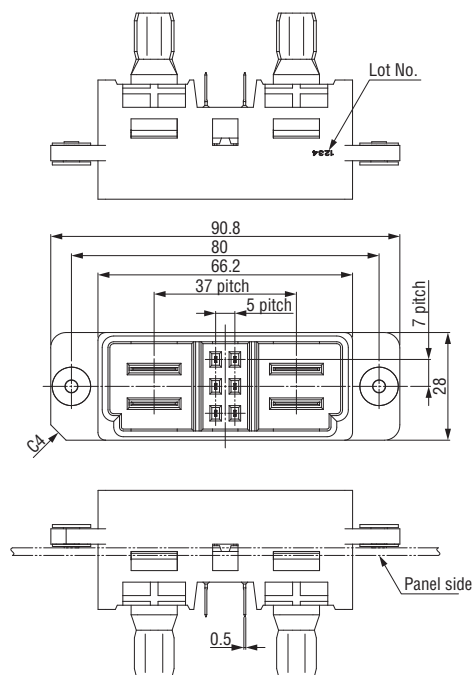
Product table

No. of contacts	Part number
6	FG01-06

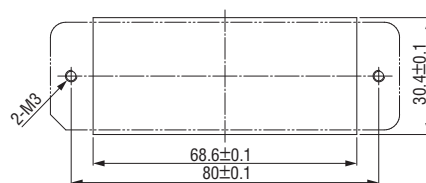
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FG11-06 (Plug, Cable-relay type)

Unit : mm



Panel layout (Component side view)



Product table

No. of contacts	Part number
6	FG11-06

*FG series cannot be sold separately as it provides a complete harness. Please contact our sales representative regarding cable and harness specifications.