

Announcement of development of 2.1mm pitch crimp connector "FK series"



2.1mm pitch crimp connector "FK series"

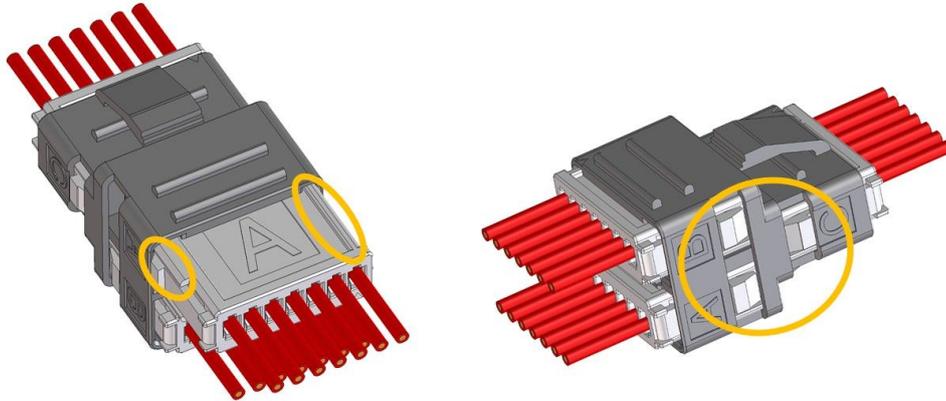
Left side of photo: 5 poles

Right side of photo: 7 poles

KEL Corporation has developed the 2.1mm pitch crimp connector "FK series".

<Product overview>

- 2.1mm pitch crimp connector ideal for applications such as manipulators, robots, and mounters.
※For more information please refer to the [<Application>](#) section !!
 - This product supports a method of connecting by branching to multiple locations (multi-drop method), contributing to wiring savings.
 - Has a structure that allows current branching, and can be partially removed for easy maintenance.
 - Flat structure that does not create unevenness at the locking point when mated, avoiding contact with other wiring or getting caught.
 - In order to prevent incorrect mating during insertion, we use technology to give each housing a different shape (keying shape).
 - Panel mounting and cable tie fixing are also available. (Width for cable tie: 2.5mm)
 - Applicable cables are planned to be AWG #22 to 28.
 - The working temperature is -55°C to +105°C.
 - We have 5 and 7 number of contacts available.
- “*If you would like other number of contacts or samples, please contact our sales representative.”



Keying shape to prevent incorrect mating and

flat locking structure to avoid contact with wiring

*This product is based on black and may differ from the actual color.

<Product specifications>

Insulator materials: PBT glass-filled filled UL94-V0 material Color: Black

- Contact material : Copper alloy
- Contact contact plating: Nickel plating base
(Contact part) gold-plated finish
(Crimp part) Nickel plated finish
- current rating: 2.5A (when using AWG28 wire)
3.0A (when using AWG26 wire)
3.5A (when using AWG24 wire)
4.0A (when using AWG22 wire)
- contact resistance: 10mΩ or less
- dielectric withstand voltage: AC 1,000V, 5 minutes
- insulation resistance: DC 500V, 1,000MΩ or more
- Insertion/removal durability: 50 times
- operating temperature: -55°C~+105°C

<Application>

- Industrial equipment market (manipulators, robots, mounters, various manufacturing equipment using servo motors, etc.)
- Medical equipment market (medical robots, etc.)

*Please note that this is a product under development, so specifications, shape, and series name may change without notice.