



DF65 Series

Wire-to-Board Connectors



● Features

1. 1.7 mm pitch, 1.8 mm height, slim connector for power supply
2. Rated up to 4 Amps with two power lines, using 24 AWG
3. Easy to operate, secure and durable locking system
4. Solder wicking prevention
5. Contact lance is highly resistant to pull-out forces
6. Uses 28 to 24 AWG cable, 0.88 to 1.11 mm jacket O.D.
7. Currently available in 3, 4, 5 and 6 positions
8. RoHS, Halogen free product*



*This product satisfies halogen-free requirements defined as 900 ppm maximum chlorine.

● Vertical Mating, Low Profile Connector

Ultra-Low Profile with 24 AWG

Socket DF65-*S-1.7C

Cable 28 to 24 AWG ϕ 0.88 to 1.11 mm

Header DF65-*P-1.7V

W: 11.2 mm (0.44")

6.3mm (0.25")

1.8 mm

5 position

Super Low Profile with 1.8 mm Mated Height!

Vertical mating type

Vertical mating style leaves more room to mount other parts. Provides more options for PCB design.

(Side view of the PCB)

The mating surface is easy to see, allowing proper insertion.

Latches are deflected slightly during mating.

● Lock and Lance Structure

Lock Structure

◆ **Positive Lock**

Header

Socket

Cross Section

Mated

Header and socket actively lock together and provides more than 5N of pull force strength when the wires are pulled in the up direction.

◆ **Friction Lock**

Friction Lock - Friction lock prevents connector floating after mating

Lance Structure

High Lance Strength Prevents Contact from Pulling Out During Wiring

Socket

Crimp Contact

Header

Contact Lance

Housing Lance

Mated

Header

Contact lance opening faces the header when mated and prevents dust intrusion.

Housing lance is pushed up by the header when fully mated. This increases the amount of the engagement between the contact and housing lances and makes for greater retention.

Lance Strength: 7N (when mated)

● Applications

Digital Cameras



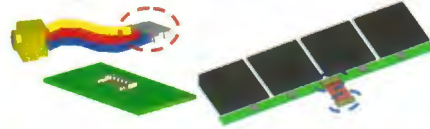
LED Lighting



Notebook PC Tablet PC



DC Jacks Battery Packs



Industrial Machinery



Portable Medical Devices



LCD TV



IT Home Appliances



● Specifications

■ Material

Component		Material	Finish
Housing	Header	LCP*	UL94V-0, Black
	Socket	LCP*	UL94V-0, Natural
Header Contact		Brass	Tin plating over nickel under-plating
Crimp Contact		Phosphor bronze	Tin plating
Metal Fitting		Brass	Tin plating over nickel under-plating

*This product satisfies halogen free requirements defined as 900 ppm maximum chlorine, 900 maximum bromine, and 1500 ppm maximum total of chlorine and bromine.

■ Features

Rated Current	4A (24 AWG, 2 lines for power)
Rated Voltage	AC / DC 50V
Operating Temperature	-35°C to +105°C*
Contact Resistance	10mΩ Max. at 20mV, 1mA
Insulation Resistance	100MΩ Min. (DC 100V)
Withstanding Voltage	500 V AC for 1 minute
Mechanical Operation	30 times

■ Applicable Cable: 28 to 24 AWG (Outer jacket diameter: ϕ 0.88 to 1.11 mm)

■ Variations: 3, 4, 5 and 6 positions

Under Development: 8 and 10 positions

For other position counts, please consult your Hirose sales representative.

* Includes the temperature rising by current carrying.