

Low Profile & Stable Mating

* Shielded versions have a wider depth
** Only H=1.5mm type is compatible with Type-C signal transmission.

DF40 Series

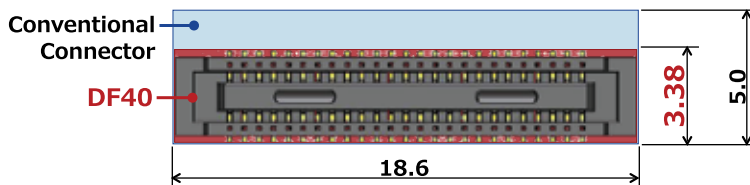
0.4mm Pitch, 1.5 to 4.0mm Height,
Board-to-Board and FPC-to-Board Connectors

FEATURES:

- ▶ The DF40 series is available in a wide variety of pin count and height variations
- ▶ Space-saving: Depth 3.38mm*
- ▶ 1.5-4.0mm stacking height variations
- ▶ Supports USB4 Gen.2 (10Gbps) transmission**
- ▶ Long effective mating length: 0.45mm
- ▶ Secure mating with clear tactile click
- ▶ Contact buckling prevention
- ▶ Many options available (with shield: DF40G series, with complete lock: DF40GL series, for ADAS: DF40T series)
- ▶ Wide range of Positions from 10 to 120 contacts
- ▶ Secure self-alignment with guide ribs: 0.33mm
- ▶ Nickel Barrier prevents solder wicking

Space-Saving with Short Depth

DF40*3 SECURE MATING & CLEAR TACTILE CLICK
0.4mm Pitch, 1.5mm Stacking Height, 80pos.



PCB Mounting Space

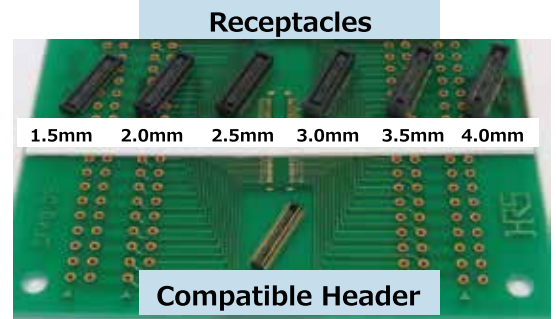
Conventional Connector
 5.0×18.6
 $= 93\text{mm}^2$

32% reduced

DF40
 3.38×18.6
 $= 62.9\text{mm}^2$

Stacking Height Variations

Choose from 6 Receptacle Stacking Heights

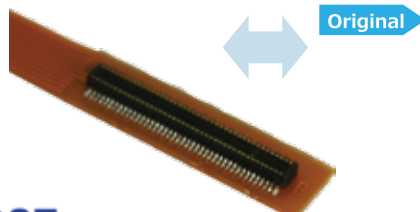


Same header is used for all stacking heights for 1.5 to 4.0mm.

Receptacle Variations

SECURE MATING & CLEAR TACTILE CLICK






DF40 Series
Common Header



DF40*3 Series Receptacle (Depth: 3.38mm)



DF40 Series Varieties

Series	DF40	DF40GB	DF40GL	DF40T	DF40GT
Product Image					
Connector	Receptacle/ Header	Receptacle/ Header	Receptacle/ Header	Receptacle/ Header	Receptacle/ Header
Operating Temperature	-35 to 85°C	-35 to 85°C	-55 to 85°C	-55 to 125°C	-55 to 125°C
Shield	-	✓	✓	-	✓
Positive Lock	-	-	✓	-	-
Stacking Height (mm)	1.5, 2.0, 2.5, 3.0, 3.5, 4.0	1.5, 3.0, 3.5	1.5	1.5, 2.5, 3.0, 3.5	1.5
No. of Pos.	10, 12, 20, 24, 30, 34, 40, 44, 50, 60, 70, 80, 90, 100, 120	10, 30, 36, 48, 70	44	10, 20, 30, 34, 40, 50, 60	10

Specifications for DF40*3

MATERIAL AND FINISH		
Component	Material	Finish, Remarks
Housing	LCP Resin*1	Black, UL94V-0
Contact	Phosphor Bronze	Gold Plating

PERFORMANCE CHARACTERISTICS	
Rated Current	0.3A
Rated Voltage	30V AC
Operating Temperature	-35 to 85°C*2
Contact Resistance	90mΩ Max. (100mA DC or 1000Hz)
Withstanding Voltage	100V AC for 1 min.
Insulation Resistance	50MΩ Min. (100V DC)
Mating Durability	30 times

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

*2: Include the temperature rising by current flow.

*3: Information provided is for the base DF40 Series. Specifications for sub series may vary



For additional information please go to
<https://www.hirose.com/product/series/DF40>
 Specifications herein are subject to change without notice.
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

