

Service Robotics Connector Lineup

A Internal Connection

Board-to-Board



HIF3M*W

Pitch: 2.54mm
MIL Standard



FX2B

Pitch: 1.27mm
Height: 12.0-16.0mm



FX18

Pitch: 0.8mm
Height: 10.0-45.0mm
High Speed Transmission
(10+Gbps)



FX8C

Pitch: 0.6mm
Height: 5.0-16.0mm
High Speed Transmission
(3.125Gbps)



FX10

Pitch: 0.5mm
Height: 4.0-13.0mm
High Speed Transmission
(15Gbps)



FX20

Pitch: 0.5mm
Height: 15.0-30.0mm
Floating Design



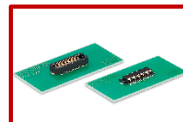
FX22

Pitch: 0.5mm
Height: 4.2mm
Floating Design



FX23/FX23L

Pitch: 0.5mm
Height: 8.0-30.0mm
High Speed Transmission
(8+Gbps)
Floating Design



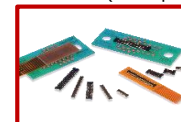
DF12N

Pitch: 0.5mm
Height: 3.0-5.0mm
Depth: 4.6mm



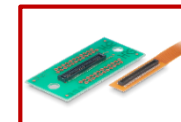
DF17

Pitch: 0.5mm
Height: 4.0-8.0mm
Depth: 5.7mm



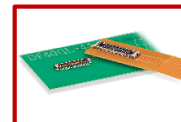
DF37

Pitch: 0.4mm
Height: 0.98/1.5mm
Depth: 2.98mm



DF40

Pitch: 0.4mm
Height: 1.5-4.0mm
Depth: 3.38mm



DF40GL

Pitch: 0.4mm
Height: 1.5mm
Depth: 3.38mm

FPC-to-Board



FH28K

Front Flip
Pitch: 0.5
Height: 2.55mm
Depth: 7.2mm



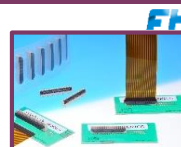
FH52

Front Flip
Pitch: 0.5/1.0mm
Height: 2.0mm
Depth: 5.7mm



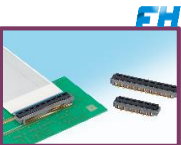
FH34

Back Flip
Pitch: 0.5mm
Height: 1.0mm
Depth: 3.8mm



FH40

Vertical
Pitch: 0.5mm
Height: 5.8mm
Depth: 5.65mm



FH41

Front Flip
Pitch: 0.5mm
Height: 2.5mm
Depth: 6.2mm



FH62

One Action
Pitch: 0.25mm
Height: 1.1mm
Depth: 4.0mm



FH63S

One Action
Front Flip
Pitch: 0.5mm
Height: 2.8mm
Depth: 5.15mm



FH67

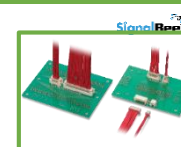
Vertical
Pitch: 0.5mm
Height: 5.2mm
Depth: 5.45mm

Wire-to-Board



DF11

2 Rows,
Space-saving
Pitch: 2.0mm
Rated Current: 2A Max.



DF13

THT/SMT
Pitch: 1.25mm
Rated Current: 1A Max.



DF65

Snap Lock Design
Small, Low Profile
Pitch: 1.7mm
Height: 1.8mm
Rated Current: 4A Max.



DF57H

Snap Lock Design
Low Profile
Pitch: 1.2mm
Height: 1.4mm
Rated Current: 3A Max.



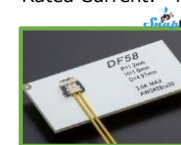
DF50

Positive Lock
Pitch: 1.0mm
Rated Current: 1A Max.



DF52

Small and Robust
Pitch: 0.8mm
Rated Current: 2.5A Max.



DF58

Snap Lock Design
Low Profile
Pitch: 1.2mm
Height: 1.0mm
Rated Current: 3A Max.



DF59M

Housing-less,
1pos.
Height: 1.2mm
Rated Current:
6A Max.

B Antenna/Microphone Module

Micro RF



U.FL

Mated Height: 2.5mm Max.
Cable Size:
ø0.81/0.95/1.13/
1.32/1.37mm
Frequency:
DC to 18GHz Max.



W.FL2

Mated Height: 1.3mm Max.
Cable Size:
ø0.5/0.64/0.81mm
Frequency:
DC to 12GHz Max.



X.FL

Mated Height: 1.0mm Max.
1.3m Max.(ø1.13mm)
Cable Size:
ø0.5/0.64/0.81/1.13mm
Frequency : DC to 12GHz

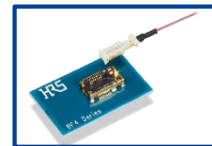


C.FL

Mated Height: 1.0mm Max.
Cable Size: ø0.64mm
Frequency: DC to 30GHz

C In-Line

Optical



BF4M

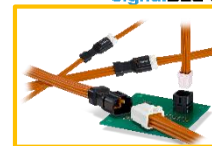
**Built-in E/O-O/E
converter
Optical Active
Connector**
0.05-6.25Gbps

In-Line



DF62

Slim In-line
Rated Current: 4A Max.



DF62W

**SlimIn-line
IP67 Waterproof
Equivalent**
Rated Current: 5A
Max.



DF63W

**Slim In-Line
Power Supply
IP67Waterproof**
Rated Current: 14A
Max.

Circular Connectors



LF

**Small Shielded
IP67,IP68
Waterproof**
Rated Current:
10A Max



HR30

**Push-Pull Lock
IP67,IP68
Waterproof**
Rated Current: 1A Max.



HR10A

Push-Pull Lock
Rated Current:
2A Max.

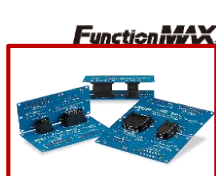


HR25A

Push-Pull Lock
Rated Current:
1A Max.

D Battery

Board-to-Board



FX30B

**Misalignment
Absorption Design
25A Max.**
Pitch: 3.81/7.62mm



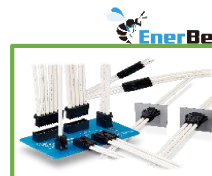
DF60

**Power Supply
65A Max.**
Pitch: 10.16mm



DF61Y

**Power Supply
4A Max.**
Pitch: 2.2mm



DF63

**Power Supply
15A Max.**
Pitch: 3.96/7.92mm



DF33C

**Power Supply
5A Max.**
Pitch: 3.3mm

Wire-to-Board

E Interface

I/O Connector



CX80B1

USB Type-C
Transmission Speed:
10Gbps
Vertical



CX90B1

USB Type-C
Transmission Speed:
10Gbps
On Board



ZX360

Micro-USB 3.0
Transmission Speed:
5Gbps
Cable Size: 28 AWG