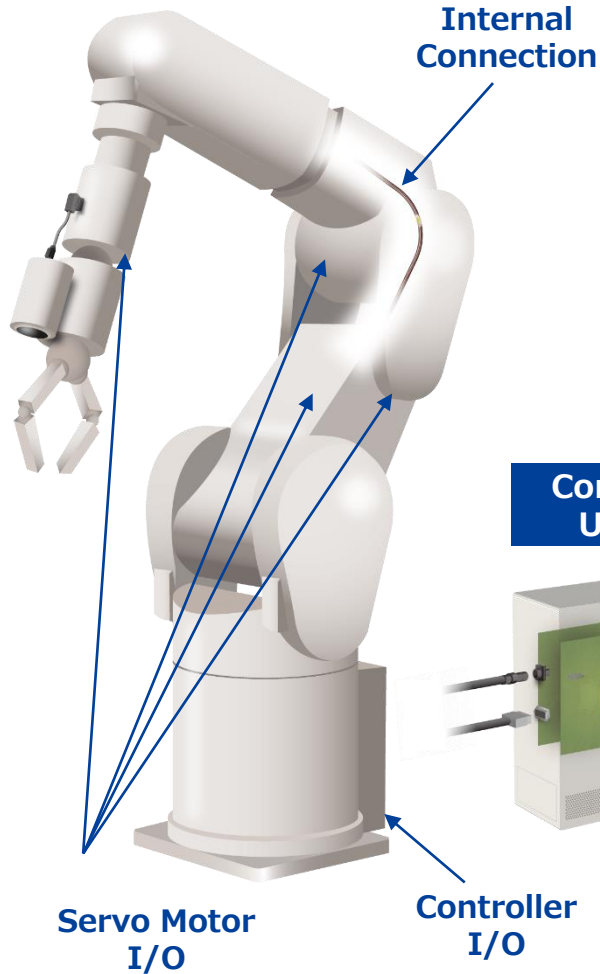


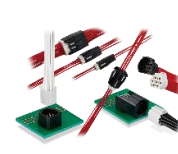


Connectors for Industrial Robots

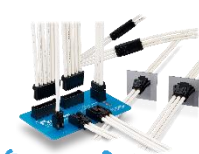
Internal Connection (Non-Waterproof)



DF60 **EnerBee**
 Rated Current : 65A Max.
 Rated Voltage : 1000V AC/DC
 Pitch : 10.16mm
 No. of Pos. : 1-6
 AWG : 8-12



DF62 **SignalBee**
 Rated Current : 4A Max.
 Rated Voltage : 250V AC/DC
 Pitch : 2.0 x 2.2
 No. of Pos. : 2-7, 13, 24
 AWG : 22-30

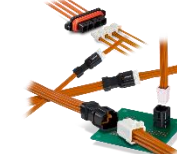


DF63 **EnerBee**
 Rated Current : 15A Max.
 Rated Voltage : 630V AC/DC
 Pitch : 3.96
 No. of Pos. : 1-6
 AWG : 16-22



BF4M
 Active Optical Connector
 with Built in E/O O/E
 Converter
 0.05-6.25Gbps
 EMI Prevention

Internal Connection (Waterproof)



DF62W **SignalBee**
 IP67 Equivalent (When Mated)
 Rated Current : 5A Max.
 Rated Voltage : 250V AC/DC
 Pitch : 2.0 x 2.2
 No. of Pos. : 2-4, 6, 9
 AWG : 20-26



DF63W **EnerBee**
 IP67 Waterproof (When Mated)
 Rated Current : 14A Max.
 Rated Voltage : 630V AC/DC
 Pitch : 3.96 x 4.4
 No. of Pos. : 2-5
 AWG : 16-22

Servo Motor I/O



HR34B
 IP67/IP68 Waterproof
 (When Mated)
 4pos. Receptacle)
 Rated Current : 5A Max.
 No. of Pos. : 4, 10
 AWG : 20-25



LF
 IP67/IP68 Waterproof
 (When Mated)
 Rated Current : 10A Max.
 No. of Pos. : 3, 4, 6,
 11, 12, 20
 AWG : 16-26



HR08D
 IP67/IP68 Waterproof
 (When Mated)
 Rated Current : 3A Max.
 No. of Pos. : 2, 10
 AWG : 20-25



MT50W
 Power/Signal Hybrid
 IP67 Waterproof
 (When Mated)
 Rated Current :
 3A, 9A (Power)
 1A (Signal)



PQ50
 Rated Current : 19A Max.
 Rated Voltage :
 600V AC/DC
 No. of Pos. : 20
 AWG : 14-22



PQ50WA
 IP67 Waterproof
 (When Mated)
 Rated Current : 19A Max.
 Rated Voltage :
 600V AC/DC
 No. of Pos. : 92 Max.
 (Selectable Unit)
 AWG : 14-28



PQ50WT
 IP67 Waterproof
 (When Mated)
 Rated Current : 30A Max.
 Rated Voltage :
 600V AC/DC
 No. of Pos. : 162 Max.
 (Selectable Unit)
 AWG : 10-28

Peripheral Device Connection (Non-Waterproof)



HR10A
 Rated Current : 2A Max.
 No. of Pos. : 4, 5, 6, 10, 12, 20
 AWG : 26-30



HR25A
 Compact Push-pull Lock Connector
 Rated Current : 1A Max.
 No. of Pos. : 4, 6, 8, 12, 16, 20
 AWG : 30



ix Industrial
 IEC Standard
 Small, Robust I/O Connector
 Cat.6A Ethernet



HR30
 IP67/IP68 Waterproof
 (When Mated)
 Rated Current : 5A Max.
 (6, 10, 12pos. : 2A Max.)
 No. of Pos. : 3, 6, 10, 12
 AWG : 26-30
 (3pos. : 20)



LF
 IP67/IP68 Waterproof
 (When Mated)
 Rated Current : 10A Max.
 No. of Pos. : 3, 4, 6, 11, 12, 20
 AWG : 16-26

Peripheral Device Connection (Waterproof)

Connectors for Robot Control Units

Control Signal



LF
IP67/IP68 Waterproof
(When Mated)
Rated Current : 10A Max.
No. of Pos. : 3, 4, 6, 11, 12, 20
AWG : 16-26



TM11R
RJ45
Cat.3, Cat.5
Rated Current : 1A



DH
1mm Pitch
Rated Current : 0.5A Max.
No. of Pos. : 17, 27, 37, 51



ix Industrial
IEC Standard
Small, Robust I/O Connector
Cat.6A Ethernet



GT17H/GT17HN
1Gbps High Speed Connector
Meeting Automotive Specs.
No. of Pos. : 4 (GT17H)
4, 16 (GT17HN)

Power



PQ50
Rated Current : 19A Max.
Rated Voltage : 600V AC/DC
No. of Pos. : 20
AWG : 14-22



PQ50S
Rated Current : 12.5A Max.
Rated Voltage : 300V AC/DC
No. of Pos. : 36, 48
AWG : 16-28



HR22
IP67/IP68 Waterproof
(When Mated)
Rated Current : 2A Max.
Rated Voltage : 100V AC
140V DC
No. of Pos. : 20
AWG : 24-28



JR
Rated Current : 30A Max.
Rated Voltage : 1000V AC Max.
1400V DC Max.
No. of Pos. : 3-26
AWG : 10-28

Control Board Internal Connection

Wire-to-Board



DF60
Rated Current : 65A Max.
Rated Voltage : 1000V AC/DC
Pitch : 10.16mm
No. of Pos. : 1-6
AWG : 8-12



DF22
Rated Current : 30A Max.
Rated Voltage : 1000V AC/DC
Pitch : 7.92mm
No. of Pos. : 1-5
AWG : 10-16



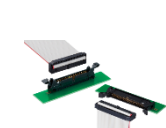
DF63
Rated Current : 15A Max.
Rated Voltage : 630V AC/DC
Pitch : 3.96mm
No. of Pos. : 1-6
AWG : 16-22



DF50/DF50A
Rated Current : 1A Max.
Rated Voltage : 100V AC/DC
Pitch : 1.0mm
No. of Pos. : 20, 30, 40, 50 (DF50)
2-16 (DF50A)
AWG : 26-32



KW30
Rated Current : 1A Max.
Rated Voltage : 100V AC/DC
Pitch : 1.0mm
No. of Pos. : 30
AWG : 28-32

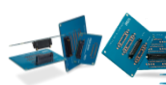


HIF3M*W
Rated Current : 1A Max.
Rated Voltage : 200V AC/DC
Pitch : 2.54mm
No. of Pos. : 10-64
AWG : 28

Board-to-Board



FX18
10+Gbps High Speed
Transmission
Floating Design
Stacking Height :
2 Piece : 10-30mm
3 Piece : 25-45mm
Pitch : 0.8mm
No. of Pos. : 40-180



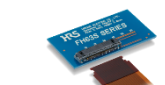
FX23/FX23L
8+Gbps High Speed
Transmission
Floating Design
Stacking Height : 8-30mm
Pitch : 0.5mm
No. of Pos. :
Signal : 20-120
Power : 4



FX27
PCIe Gen.1 Transmission
Floating Design
Stacking Height : 22mm Min.
Pitch : 0.8mm
No. of Pos. : 40-120



FX30B
Floating Design
Stacking Height : 20-30mm
Pitch : 3.81, 7.62mm
No. of Pos. : 2-5



FH63S
FPC/FFC/Shield FPC Connector
Height : 2.8mm
Pitch : 0.5mm
No. of Pos. : 10, 20, 30, 40.



FH28K
125°C Heat Resistance
FPC/FFC Connector
Height : 2.55mm
Pitch : 0.5mm
No. of Pos. : 10-80

FPC/FFC

Control Signal

Power

Teaching Pendant

Control Board
Internal Connection

Teaching Pendant

Ribbon Cable