



HIROSE ELECTRIC CO., LTD.

SignalBee™



Wire-to-Board, Wire-to-Wire
Signal Connection





With Hirose, you always play the winning hand.

Technology that leads to solutions.

SignalBee, a sister brand to our power cable brand EnerBee, specializes in signal cable connectors.

It incorporates the concept of “compact size with high-end performance.”

A wide variety of configurations ensure the best solutions for user application requirements.

SignalBee delivers powerful performance across many fields, including industrial machinery, and is known for its exceptional product quality and crimping technology.

This expertise is built on extensive know-how in areas such as assembly tool development.

SignalBee offers options that contribute to space-savings and reduced assembly labor, making it your best choice for signal cable connectors.



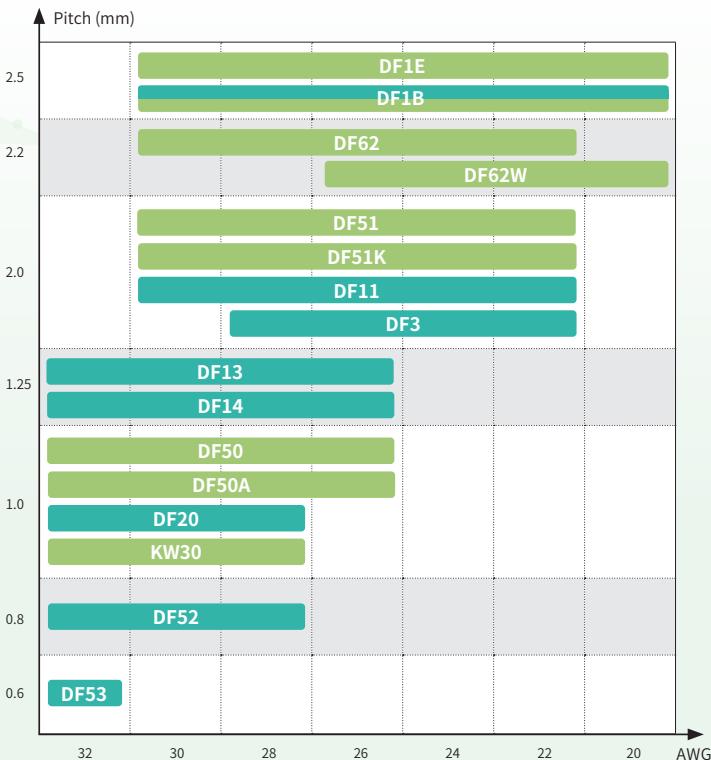
Versatility
Reliability
Variation

POINT ! Wide Connector Lineup for Various Applications

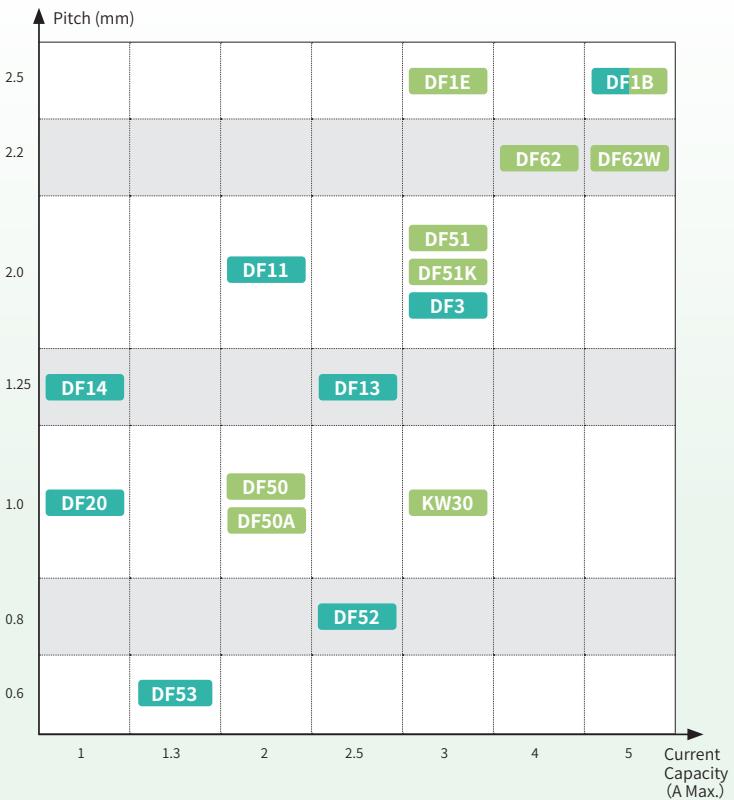
Friction Lock

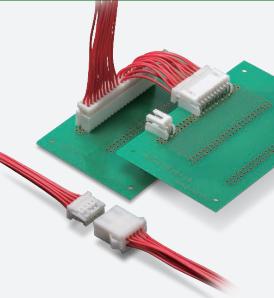
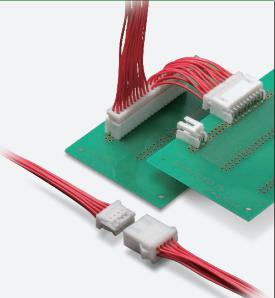
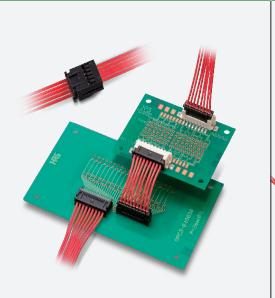
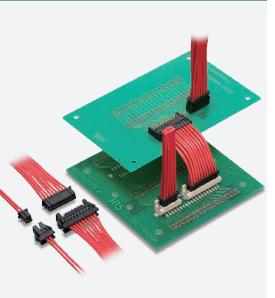
Positive Lock

■ Connector Pitch and Applicable Cable Size



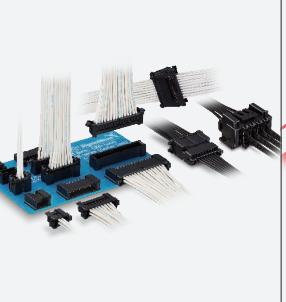
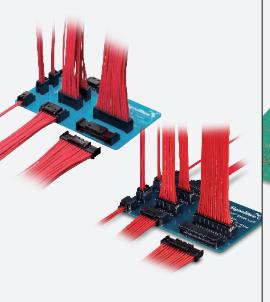
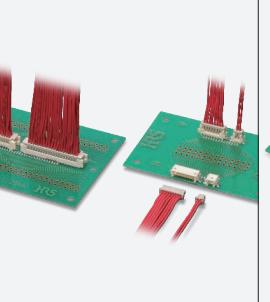
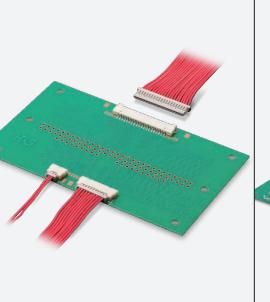
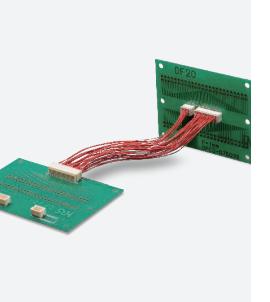
■ Connector Pitch and Current Capacity

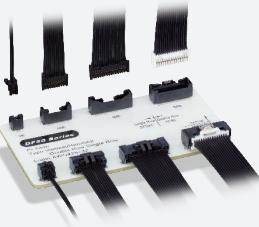
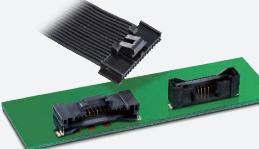
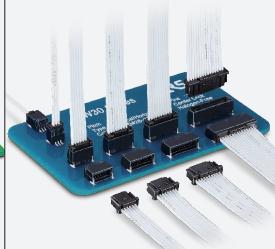


	DF1B	DF1E	DF3	DF11
				
Features	2.5mm Pitch, Discrete Wire Connection	2.5mm Pitch, Positive Lock, Discrete Wire Connection	2mm Pitch, Discrete Wire Connection	2mm Pitch, Double-Row
Row	1, 2	1	1	2
Lock Style	Positive/Friction	Positive	Friction	Friction
Rated Current Max. (A)* ¹	5	3	3	2
Pitch (mm)	2.5	2.5	2	2
No. of Pos.* ²	2-40	2-15	2-15	4-32
Applicable Cable Size (AWG)	20-30	20-30	22-28	22-30
Operating Temperature (°C)	-35 to +85	-35 to +85	-55 to +105	-30 to +85
Safety Standard	UL, CSA	UL, C-UL	UL, CSA	UL, CSA
Mounting Type	DIP	DIP	SMT, DIP	SMT, DIP
Connection Type	Straight, Right Angle, In-line	Straight, Right Angle, In-line	Straight, Right Angle, In-line	Straight, Right Angle, In-line, In-line Adapter, Board-to-Board
Assembly Type	Crimp	Crimp	Crimp	Crimp
Contact Plating	Tin, Gold	Tin, Gold	Tin, Gold	Tin, Gold
Potting	-	-	-	-

*¹ The current capacity varies depending on the appropriate cable size. For more details, please refer to the catalog or the specification sheet.

*² For variations in the number of pos. handled, please refer to the product catalog or contact us.

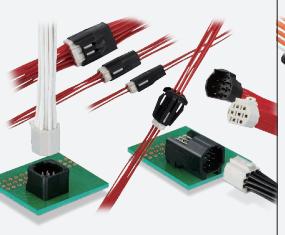
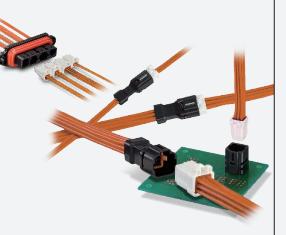
DF51	DF51K	DF13	DF14	DF20
				
2mm Pitch, Positive Lock	2mm Pitch, Center Lock	1.25mm Pitch, Miniature, Crimp	1.25mm Pitch, Low Profile, Crimp	1mm Pitch Double Rows Low Profile, High Pin Count
1,2	1,2	1,2	1	2
Positive	Positive	Friction	Friction	Friction
3	3	2.5	1	1
2	2	1.25	1.25	1
2-30	2-30	2-40	2-30	10-50
22-30	22-30	26-32	26-32	28-32
-55 to 105	-55 to 105	-35 to 85	-35 to 85	-35 to 85
UL, C-UL	UL, C-UL	UL	-	-
DIP	SMT, DIP	SMT, DIP	SMT	SMT
Straight, Right Angle, In-line, Branch Adopter	Straight, Right Angle, In-line, Branch Adopter	Straight, Right Angle, In-line, Branch Adopter	Right Angle	Straight, Right Angle
Crimp	Crimp	Crimp	Crimp	Crimp
Tin, Gold	Tin, Gold	Tin, Gold	Tin, Gold	Gold
✓	✓	-	-	-

	DF50	DF50A	KW30	DF52
				
Features	1mm Pitch, Positive Lock	1mm Pitch, Positive Lock	1mm Pitch, Single-row, Center Lock	0.8mm Pitch, Compact and Robust
Row	2	1	1	1
Lock Style	Positive	Positive	Positive	Friction
Rated Current Max. (A)* ¹	2	2	3* ²	2.5
Pitch (mm)	1	1	1	0.8
No. of Pos.* ³	20-50	2-16	2-15	2-20
Applicable Cable Size (AWG)	26-32	26-32	28-32	28-32
Operating Temperature (°C)	-35 to +85	-35 to +85	-55 to +105	-40 to +85
Safety Standard	-	-	UL, C-UL	-
Mounting Type	SMT	SMT	SMT	SMT
Connection Type	Straight, Right Angle	Straight, Right Angle	Straight, Right Angle	Right Angle
Assembly Type	Crimp	Crimp	Crimp	Crimp
Contact Plating	Gold	Gold	Gold	Tin
Potting	-	-	-	-

*¹ The current capacity varies depending on the appropriate cable size. For more details, please refer to the catalog or the specification sheet.

*² Supports 3A Max. for 2.0mm pitch with 2pos. without a pin.

*³ For variations in the number of pos. handled, please refer to the product catalog or contact us.

DF53	DF62	DF62W		
 A blue rectangular box labeled 'DF53 Series' with 'Pitch 0.6mm, Height 1.48mm AWG#32' and 'E'.	 A green printed circuit board with several black and red DF62 connectors attached.	 A green printed circuit board with several black and orange DF62W connectors attached.		
0.6mm Pitch, Small & Robust,	Slim In-Line/THT	Water Resistant, Slim In-line for Internal Wiring		
1	-	-		
Friction	Positive	Positive		
1.3	4	5		
0.6	2*2.2	2.2*2.2		
2-20	2-24	2-9		
32	22-30	20-26		
-55 to 85	-35 to 105	-40 to 105		
-	UL, C-UL	UL, C-UL		
SMT	DIP	DIP		
Right Angle	Straight, Right Angle, In-line	Straight, In-line		
Crimp	Crimp	Crimp		
Tin	Tin, Gold	Tin, Gold		
-	-	-		



Bee Collection™ consist of
『EnerBee™』,『SignalBee™』,『SnapBee™』
has a common concept of "small high performance".
We offer a broad range of connection solutions
from power to signal.



High Current

Positive Lock

Safety Design



Versatility

Reliability

Variation



Vertical Mating

Excellent Operability

Easy Layout

Bee COLLECTION™

More on [Special Website](#)

Hirose Bee Collection



<https://www.hirose.com>

HIROSE ELECTRIC CO., LTD.

In cases where the application will demand a high level of reliability,
such as automotive, please contact a company representative for further information.

The information in this brochure is current as of Jul 2025.

Hirose reserves the right to make any adjustments to the information contained herein without notice.