



**Wire-to-Board, Wire-to-Wire
Power Connection**



HRS

HIROSE ELECTRIC CO., LTD.



High Power, High Reliability

**A Legend in Compact,
High-end Devices**

EnerBee -Your best choice for power cable connectors. Named after the tiny, yet energetic insect, the EnerBee name represents the shared concept of this product family-compact size with high-end performance. In addition to its superior performance, small size and the ability to support high-current and high-voltage devices, EnerBee offers a positive lock mechanism to meet various requirement of industrial power supply and power sources. Additionally, by replacing locks with the EnerBee's built-in positive lock mechanism, assembly quality and work efficiency are improved. If you have design problems, the EnerBee is your solution.



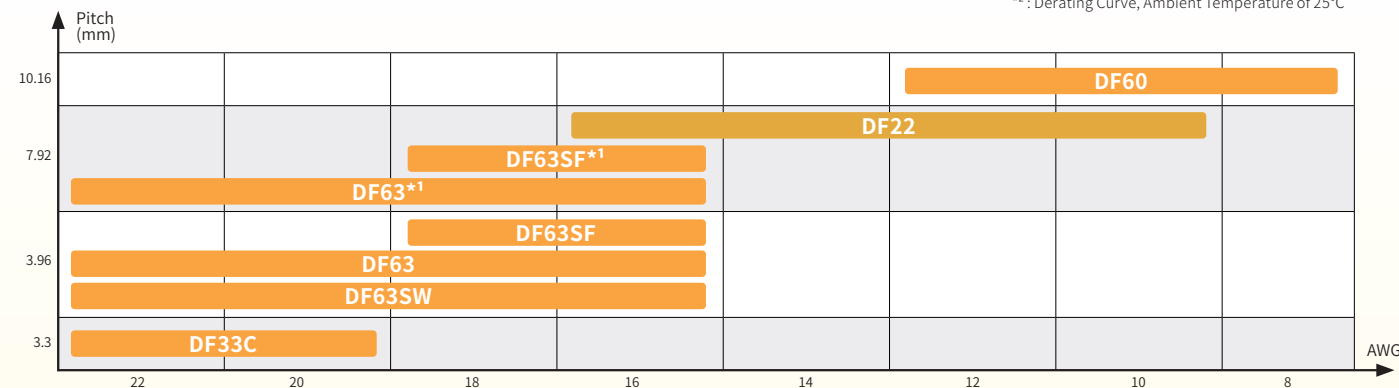
**High Current
Positive Lock
Safety Design**

POINT !

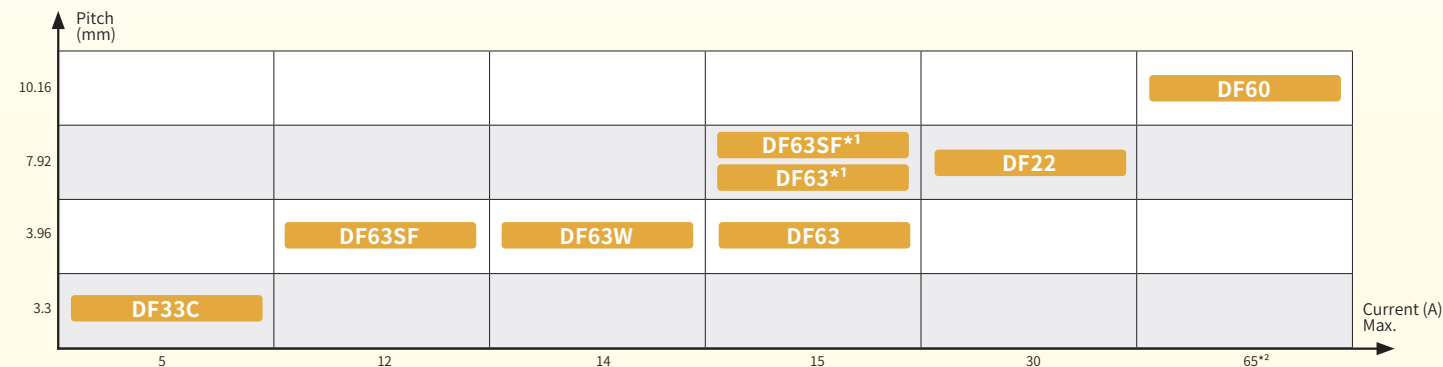
We offer an optimal solution depending on the size and current capacity requirements of the connector.

■ Connector Pitch and Applicable Cable Size

*1 : Without Pins
*2 : Derating Curve, Ambient Temperature of 25°C



■ Connector Pitch and Current Capacity



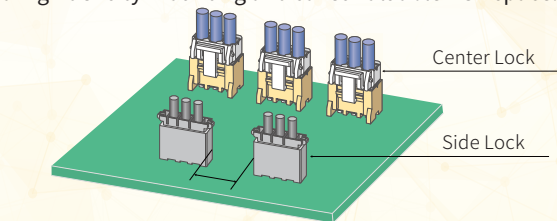


Various functions improve work efficiency and safety.

Center Lock System

Saves on PCB mounting space.

Enables high density mounting by center lock saves space for fingers to unlock the connector which is necessary for side lock, contributing to high density mounting and saves valuable PCB space.



Extra Space Needed
for Typical Side Release Lock Connectors

Products All Series

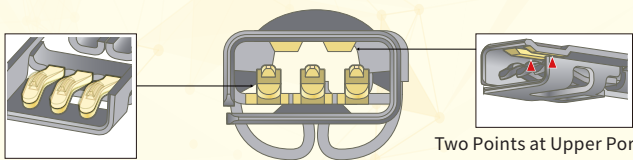
Multi-Point Contact Design

Secure Contact and Superior Vibration Resistance.

Three contact points in the lower portion have an independent spring action and allow for each contact point to position itself when mating.

Ex: DF60, 3pos

Crimp Contact

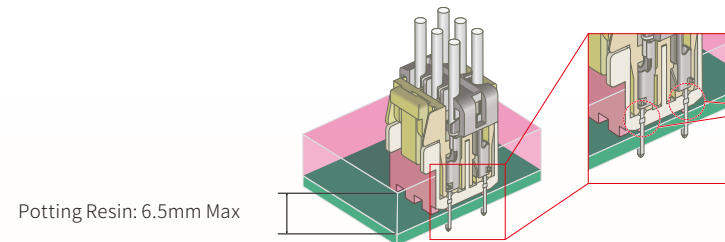


Products DF63, DF63W, DF63SF, DF22, DF60 Series

*Each series has a different multi-point contact design.

Resin Sealing

Protects mounted components from moisture and other foreign matter such as dust and dirt.



Products DF33C, DF63, DF22 Series

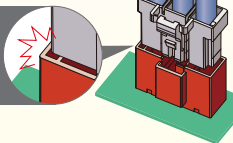
Keying

Safety Design

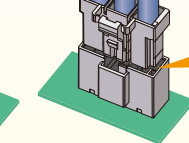
Different key types and housing colors are available for using multiple connectors with the same number of positions.

Ex: DF60 Straight Pin Header, 3pos.

Unmateable
due to the incorrect
key types and housing
colors



Mateable
with the Correct
key types and
housing colors



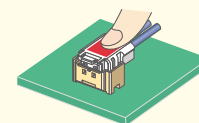
Products DF22, DF60 Series

Vertical-Mating with Lateral Cable Design

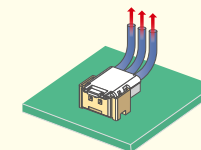
Clear tactile click and superior operational reliability.

Clear tactile click and wide operation space improve work efficiency.

Clear Tactile Click and
Wide Operation Space



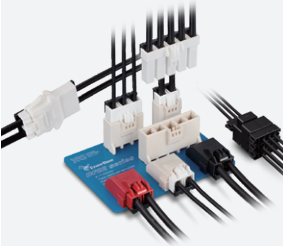

Lock Strength :
Over 35N



Products DF63SF Series

 Product List	DF33C	DF63	DF63W	DF63SF
				
Features	3.3mm Pitch, Small Size, Internal Power Source	15A, 3.96mm Pitch for Internal Power Supply	3.96mm Pitch, Compact Waterproof for Internal Power Supplies	12A Max., 3.96mm Pitch
Row	1,2	1	1,2	1
Rated Current Max. (A)	5	15	14	12
Rated Voltage	500V AC/DC	630V AC/DC	630V AC/DC	630V AC/DC
Pitch	3.3mm	3.96mm / 7.92mm* ¹	3.96×4.4mm	3.96mm / 7.92mm* ¹
No. of Pos.	2-12	1-6	2-4	2,3
Applicable Cable Size (AWG)	20-22	16-22	16-22	16-18
Operating Temperature (°C)	-35 to +85	-55 to +105	-40 to +105	-55 to +105
Safety Standard	-	UL, C-UL,TÜV	UL, C-UL,TÜV	UL, C-UL,TÜV
Glow Wire Capable	✓	-	✓	✓
Connection Type	Straight	Straight, Right Angle, In-line	In-line	Straight
Contact Plating	Tin	Tin, Gold	Tin	Gold
Additional Features	Resin Sealing	Resin Sealing, Multi-point Contact	Multi-point Contact, Waterproof	Multi-point Contact, Vertical mating with Lateral Cable Design

*¹ : Without Pins
*² : Derating Curve, Ambient Temperature of 25°C

DF22	DF60			
				
7.92mm Pitch, High Current for Internal Power Supplies	65A (Derating Curve, Ambient Temperature of 25°C), 10.16mm Pitch, for Internal Power Supply			
1,2	1			
30	65* ²			
1,000V AC/DC	1,000V AC/DC			
7.92mm	10.16mm			
1-5	1-6			
10-16	8-12			
-55 to +85°C	-55 to +105°C			
UL, C-UL,TÜV	UL, C-UL,TÜV			
✓	✓			
Straight, Right Angle, In-line, Branch Adapter	Straight, Right Angle, In-line			
Gold	Gold			
Mating Guide Key, Resin Sealing, Multi-point Contact	Mating Guide Key, Multi-point Contact			



Bee Collection™ consist of
『EnerBee™』『SignalBee™』『SnapBee™』の
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

Search



<https://www.hirose.com>

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

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