



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



**HRS**

HIROSE ELECTRIC CO., LTD.



# High Power, High Reliability

High Current  
Positive Lock  
Safety Design

## 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.



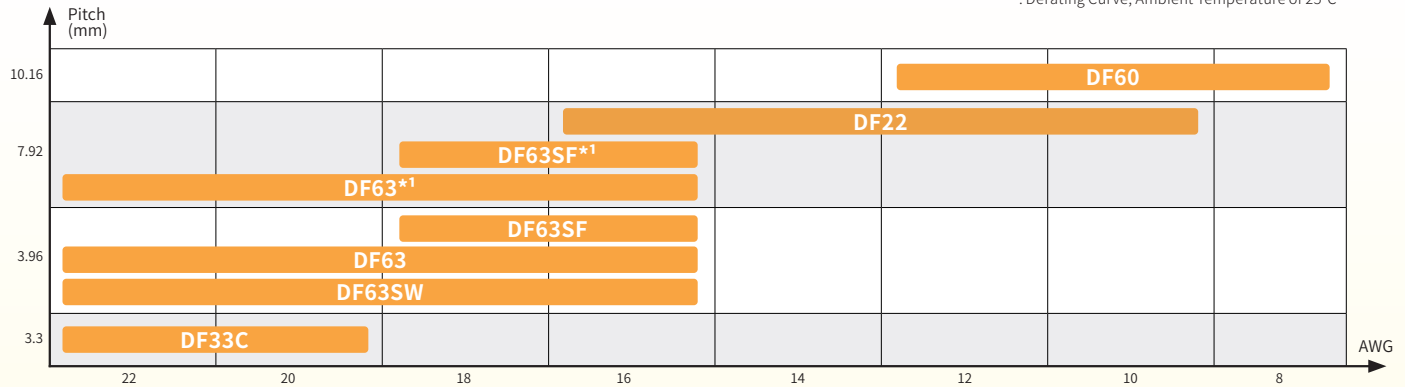
## POINT !

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

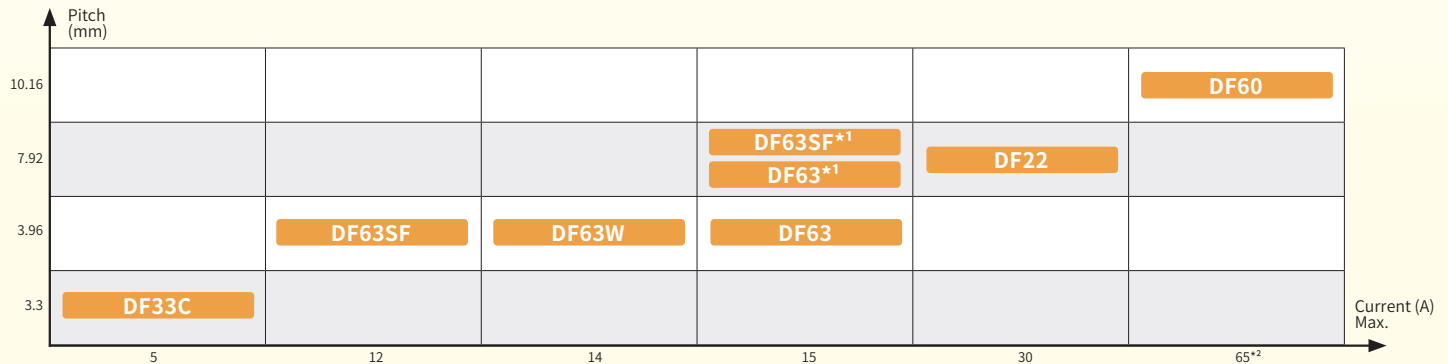
### ■ Connector Pitch and Applicable Cable Size

\*1 : Without Pins

\*2 : Derating Curve, Ambient Temperature of 25°C



### ■ Connector Pitch and Current Capacity



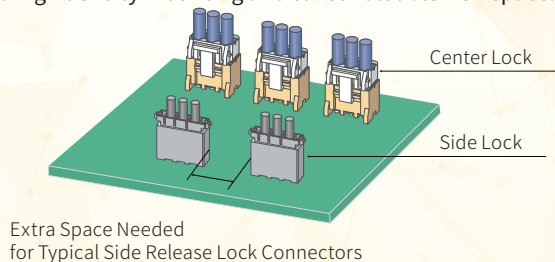


# Various functions improve work efficiency and safety.

## 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.



Products

All Series

## Multi-Point Contact Design

Secure Contact and Superior Vibration Resistance.

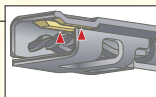
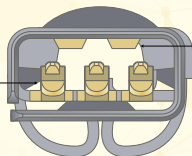
Three contact points in the lower portion have an independent spring action and allow for each contact point to position itself when mating.

Ex: DF60, 3pos

Crimp Contact



Three Points at Lower Portion



Two Points at Upper Portion

Products

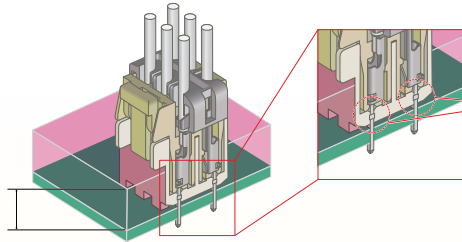
DF63, DF63W, DF63SF, DF22, DF60 Series

\*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.

Potting Resin: 6.5mm Max



Press-fit contact design prevents potting resin from wicking into the connector body.

Products

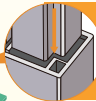
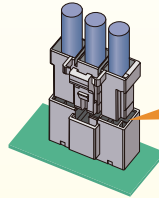
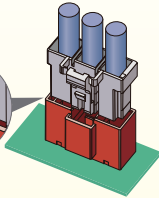
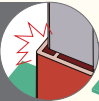
DF33C, DF63, DF22 Series

## Keying

## Safety Design

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

**Unmateable**  
due to the incorrect  
key types and housing  
colors



**Mateable**  
with the Correct  
key types and  
housing colors

Ex: DF60 Straight Pin Header, 3pos.

Products

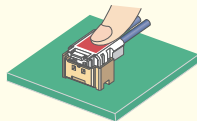
DF22, DF60 Series

## Vertical-Mating with Lateral Cable Design

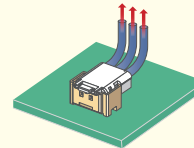
Clear tactile click and superior operational reliability.

Clear tactile click and wide operation space improve work efficiency.

**Clear Tactile Click and  
Wide Operation Space**



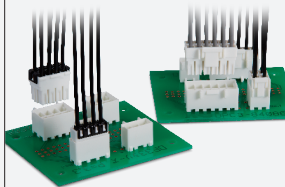
**Lock Strength :  
Over 35N**



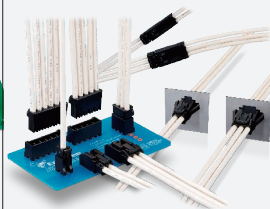
Products

DF63SF Series

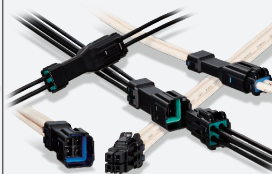
## DF33C



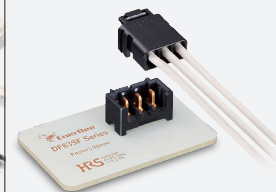
## DF63



## DF63W



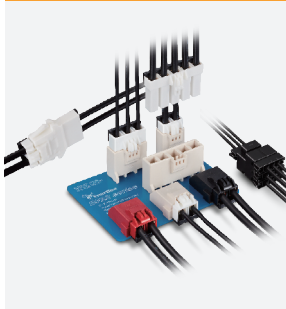

## DF63SF



| 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* <sup>1</sup>               | 3.96×4.4mm   | 3.96mm / 7.92mm* <sup>1</sup>                                  |
| 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 |

\*<sup>1</sup> : Without Pins

\*<sup>2</sup> : 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>

**HRS 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.