

# HRS LED Lighting Product Lineup

Hirose Electric, as a world leader in the connectivity industry, has been developed a broad innovative electronic connectors over the years since its founding. Please visit our Web site for details of the listed products as well as other related product lines.

## ■ For Indoor Applications



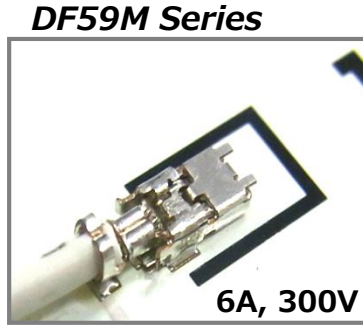
◀ Bulb/Line Type

### ◆ System Connector for LED Lighting:



**6A Max. (20 AWG)  
600V Max.**

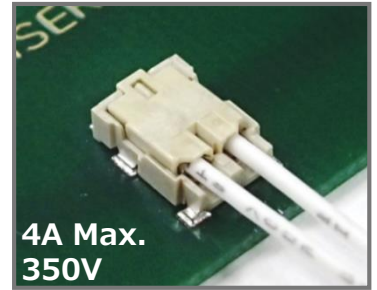
- ✓ Height: 4.2mm, Width:11.85mm, Low profile and space saving connector
- ✓ Cable insertion design provides easy cable connection
- ✓ Push lever ensures easy cable extraction
- ✓ UL/C-UL certified



**DF59M Series**

**6A, 300V**

- ✓ Housing-less small and low profile mono-pole connector
- ✓ Clear tactile click and high mating force with positive lock
- ✓ High current capability rated up to 6A
- ✓ 28 to 22 AWG with jacket outer dia. ø0.9 to 1.6mm
- ✓ UL pending

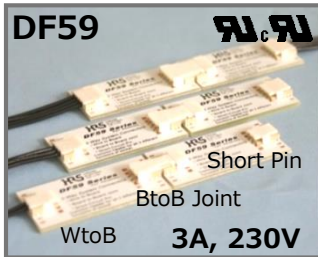


**DF61Y Series**

**4A Max.  
350V**

- ✓ 2.2mm pitch, 2.0mm height, low profile 2pos. connector
- ✓ High rated current: 4A (24 AWG)
- ✓ ViSe lock structure with excellent operability as well as robustness
- ✓ Small size and 350V high voltage capacity
- ✓ High contact lance strength

3WAY system connector



**DF59**   
Short Pin  
BtoB Joint  
WtoB **3A, 230V**

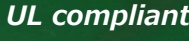
Swing lock, Low profile



**DF57H**  **UL compliant**  
**0.5 to 2.5A, 100V**


Swing lock, Power connector



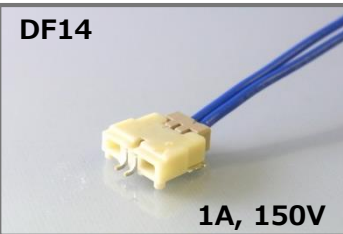
**DF61**  **UL compliant**  
**5A Max. (22 AWG)  
350V**

Slim in-line/Water resistant

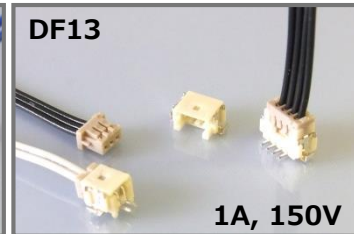


**DF62**   
**1 to 3A  
250V  
UL compliant**

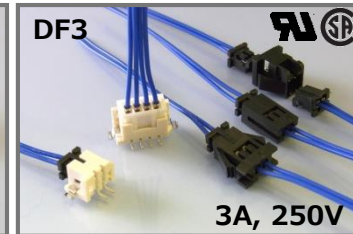
Internal Signal, Power Supply Crimping Connectors





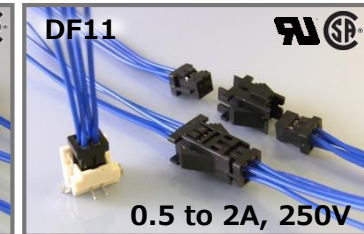
**DF14**  
**1A, 150V**





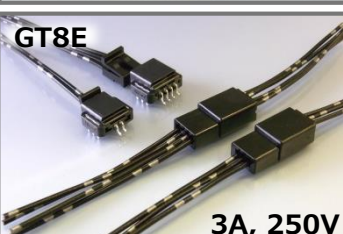
**DF13**  
**1A, 150V**



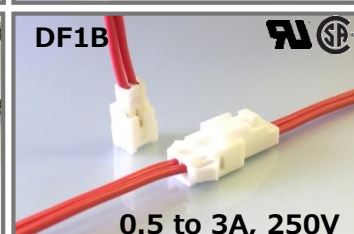
**DF3**    
**3A, 250V**





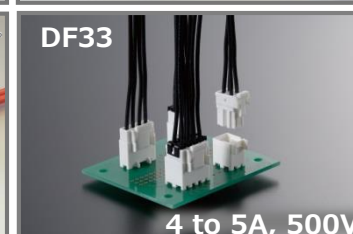
**DF11**    
**0.5 to 2A, 250V**



**GT8E**  
**3A, 250V**






**DF1B**    
**0.5 to 3A, 250V**



**DF33**  
**4 to 5A, 500V**



**DF22**    
**13 to 30A, 1000V**

Recognition No.  : E52653  : LR95109  : R9950703 (DF22)

Please consult Hirose for the product part number and specifications conforming to the safety standards.

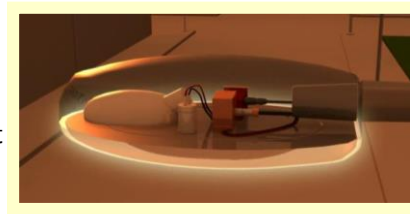
Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings, or availabilities.

## ■ For Outdoor Applications

### ◆ Weather-Resistant Waterproof Connector: HR41 Series



- ✓ 2000 hours of sunshine weather test
- ✓ IP68 waterproof
- ✓ 15kV of lightning surge protection



Street Lamp ▶



### ◆ Water Resistant Plastic Connector: HR30 Series



- ✓ Small size & light weight
- ✓ IP68 waterproof
- ✓ Easy operation & assembly

### ◆ Shielded Small Waterproof Connector: LF Series



- ✓ Small and robust bayonet lock connector
- ✓ IP68 waterproof
- ✓ Electrically shielded structure (Patented)
- ✓ Simplified assembly procedure

IP68 our test conditions: No water intrusion, while submerged in 2 m water depth for 14 days in mated condition.

Recognition No.  : R50079865 (LF)  : E52653

## ■ Specifications For Indoor Application

\*1: In case of removing the middle pin from 3pos.

\*2: Specifications vary depending on the pin count and/or shell size.

Series	Cable Size (AWG)	Rated Current	Rated Voltage	Pitch	Mounting Style	Operating Temp.	Remarks
DF1B	20 - 30	0.5 to 3A	250V	2.5mm	DIP	-35 to +85 °C	-
DF3	22 - 28	1 to 3A	250V	2.0mm	DIP/SMT	-30 to +105 °C	-
DF11	22 - 30	0.5 to 2A	250V	2.0mm	DIP/SMT	-30 to +85 °C	-
DF13	26 - 32	0.8 to 1A	150V	1.25mm	DIP/SMT	-35 to +105 °C	-
DF14	26 - 32	1A	150V	1.25mm	SMT	-35 to +105 °C	-
DF22	10 - 16	13 to 30A	1000V	7.92mm	DIP	-35 to +105 °C	-
DF33	20 - 22	4 to 5A	500V	3.3mm	DIP	-35 to +85 °C	-
DF57H	26 - 34	0.5 to 2.5A	50V (100V*1)	1.2mm	SMT	-35 to +105 °C	Swing Lock
DF59	22	3A	230V (350V*1)	2.0mm	SMT	-35 to +105 °C	Swing Lock
DF59M	22 - 28	3 to 6A	300V	-	SMT	-40 to +105 °C	-
DF61	22 - 30	5A Max.	350V	2.2mm	SMT	-35 to +85 °C	Swing Lock
DF61Y	24 - 28	4A Max.	350V	2.2mm	SMT	-40 to -105 °C	ViSe Lock
DF62	22 - 30	1 to 3A	250V	2.2 x 2.0mm	DIP/In-line	-35 to +105 °C	Slim In-line
GT8E	20 - 28	3A	250V	2.0mm	DIP/SMT	-40 to +120 °C	Automotive Spec.

## For Outdoor Application

Series	Cable Size (AWG)	Rated Current*2	Rated Voltage*2	Cable Assembly Style	Operating Temp.	Lock Style
HR30	26 - 30	2, 5A	100AC/140V DC, 30AC/42V DC	Soldering/Crimping	-25 to +85 °C	Push pull lock
HR41	10 - 18	20A	400V AC/DC, 600V AC/400V DC	Crimping	-40 to +85 °C	Bayonet lock
LF	16 - 26	2, 10A	3pos: 125V AC/175V DC 4, 11pos: 125V AC/DC 6, 12, 11, 20pos: 30V AC/42V DC	Soldering	-25 to +85 °C	Bayonet lock

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