



CONNECTING THE FUTURE

Interconnect Lighting Solutions

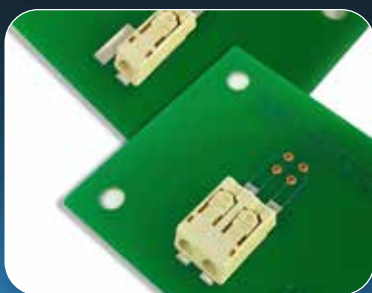


HRS HIROSE
ELECTRIC
CO., LTD.



HIROSE WIRE-TO-BOARD CONNECTORS

Hirose's interconnect products offer innovation, versatility and low profiles for your LED engineered designs. With contact pitches from 1mm to 7.92mm, multiple positions, secure locking features, and various termination sizes, Hirose has the Wire-to-Board solution for your demanding LED applications.



KN27 Series

- Oper. Temp. -40C to +130C
- 18-24 AWG
- 9A max rated current
- 600 VAC
- 4.2mm overall height
- Contact positions: 1, 2

A tool-less and easy to use "Push-In" connector ideal for LED lighting module applications. This connector offers one of the industry's lowest profiles & features a simple push button latch.



DF65 Series

- Pitch: 1.7mm
- 24 -28 AWG
- 4A max rated current
- 50 VAC/VDC
- 1.8mm mated height
- Contact positions: 3, 4, 5, 6, 7 & 10

A slim design with vertical mating that features snap-back latching to assure connector position and help prevent accidental unmating.



DF64 Series

- Pitch: 4.5 mm
- 18 - 22 AWG
- 5A max rated current
- 350 VAC/VDC
- 4.7 mm mated height
- Contact positions: 2, 3

Highly versatile, this series is a 2-piece W-to-B and B-to-B horizontal mating connector system. The B-to-B features a floating two-point contact structure for reliable service.



DF63 Series

- Pitch: 3.96mm
- 16, 18 AWG
- 15A max rated current
- 630 VAC/VDC
- Contact positions: 1, 2, 3, 4, 5, 6

High power in a small package; features include keyed insertion guides, secure latching and short circuit protection. Available in vertical, horizontal & in-line.



DF63W Series

- Pitch: 3.96mm
- 16 - 22 AWG
- 14A max rated current
- 630 VAC/VDC
- Contact positions: 2, 3, 4

A compact power connector with IP67 water-resistance performance. Environmentally sealed for high-humidity applications including refrigeration, signage & outdoor fixtures.



DF62 Series

- Pitch: 2.2mm
- 22 - 30 AWG
- 4A max rated current
- 250 VAC/VDC
- Contact positions: 2, 3, 4, 5, 6, 7, 13, 24

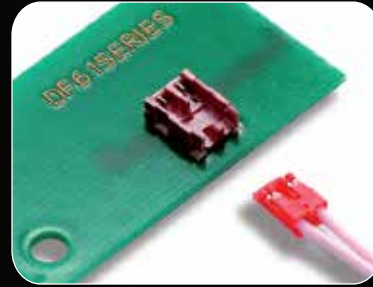
With a slim & smooth profile, this in-line series can be used in tight spaces. Features include high reliability contacts, Connector Position Assurance & a protected latch variation.



DF62W Series

- Pitch: 2.2mm
- 22 - 26 AWG
- 3A max rated current
- 250 VAC/VDC
- Contact positions: 2, 3, 4, 5, 6, 9

The DF62W is a water resistant version of the popular DF62 series, with up to IP67 performance. Redundant silicone wire seals allow for use in humid or critical applications.



DF61 Series

- Pitch: 2.2 mm
- 22 - 30 AWG
- 5A max rated current
- 350 VAC/VDC
- 2.38 mm mated height
- Contact positions: 2

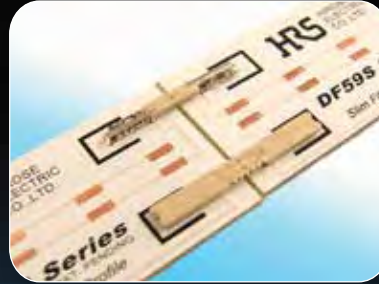
Featuring extreme electrical performance, this compact connector includes Hirose's unique swing lock mechanism that provides strong retention & minimizes shadowing.



DF59 Series

- Pitch: 2.0 mm
- 22 AWG
- 3A max rated current
- 230 VAC/VDC
- 2.48 mm mated height
- Contact positions: 2, 3, 4

A multi-function connector system, the versatile DF59 offers W-to-B with swing-lock mating, B-to-B with a floating bridge and a circuit-closing plug.



DF59S/DF59SN Series

- 3A max rated current
- 350 VAC/VDC
- 1.18 mm mated height
- Contact positions: 1

These single-pole B-to-B connectors are available in both slim and super narrow versions. They feature a unique stress-free contact structure for floating function.



DF59M Series

- Fits DF59S footprint.
- 22- 28 AWG
- 6A max rated current
- 350 VAC/VDC
- 1.2 mm mated height
- Contact positions: 1

Our single-pole W-to-B connector with small footprint is ideal for use in narrow spaces. It features an ultra-low profile and positive lock with clear tactile click.



DF57H Series

- Pitch: 1.2 mm
- 28 - 34 AWG
- 1.4 mm mated height
- 2.5A max rated current
- 50 VAC/VDC
- Contact positions: 2, 3, 4, 5, 6

This ultra-low profile connector with swing lock mating has a tiny footprint but can carry considerable power with its reliable two-point contact structure.

Application Functionality - Using quality Hirose connectors will upgrade the features of your light engine. Standardizing your design with a Hirose connector allows for a common module to be used in different applications. The benefits are improvements in assembly time, manufacturing process, quality control and if necessary, rework. Additionally, servicing can be easily completed during the life of the product when using a connector with our quick disconnect feature.

DF59M LED linear light



COB type lighting



From Power Supply

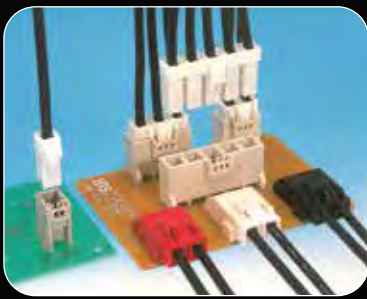
Board-to-Board

Board-to-Board

Circuit-Closing Plug

DF59

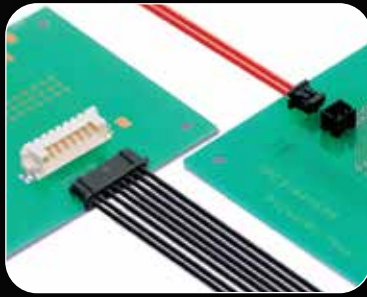




DF22 Series

- Pitch: 7.92mm
- 10 -16 AWG
- 30 A max rated current
- 1,000 VAC /VDC
- Contact positions:
1, 2, 3, 4, 5

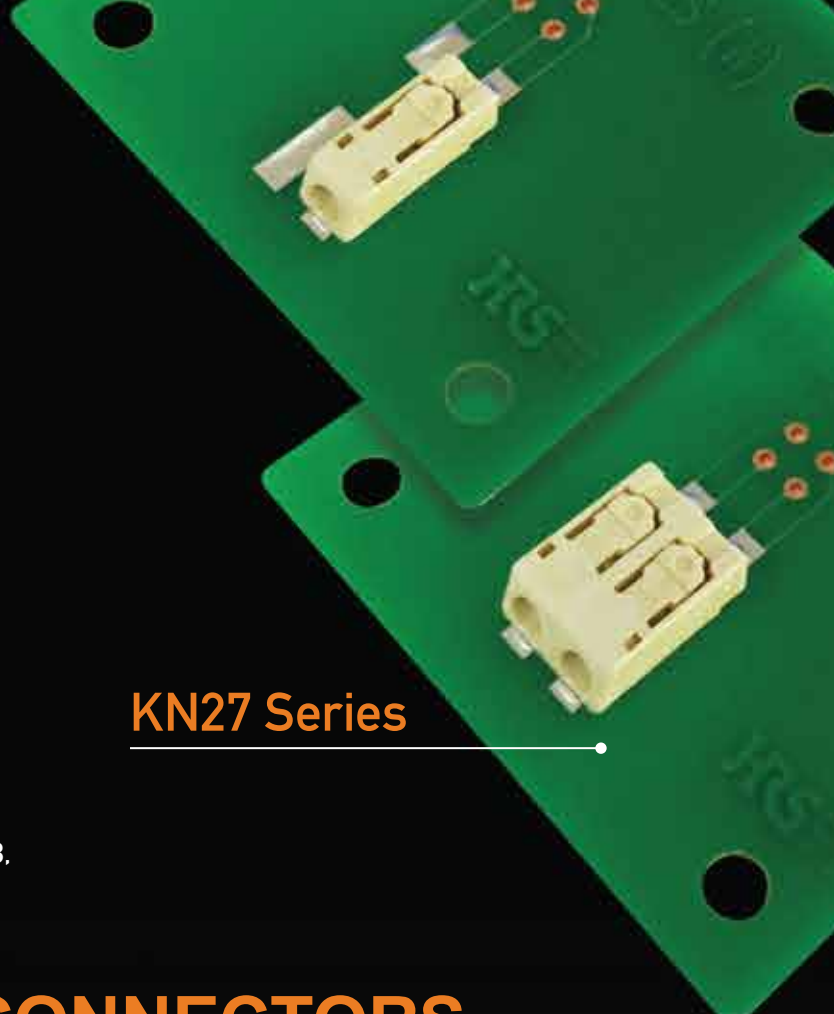
For high current and high voltage applications, the DF22 offers isolated contact compartments, enclosed latch protection, keying and color coding for secure use.



DF3 Series

- Pitch: 2mm
- 22-28 AWG
- 3 A max rated current
- 250 VAC
- Contact positions
(single row): 2, 3, 4, 5, 6,
7, 8, 9, 10, 11, 12, 14, 15

Our time-proven performer, the DF3 offers many different options for mounting and mating, including W-to-B, B-to-B, inline and panel feed-through.



KN27 Series

HIROSE CIRCULAR CONNECTORS

Robust, compact & versatile, Hirose circular connector series are suitable for demanding LED applications. Features include IP ratings up to IP68, visual mating guides, easy-to-operate locking rings, & recognized industry approvals.



HR41 Series

- 20A max rated current
- 10 to 18 AWG
- 600 VAC/VDC
- Contact Positions: 3, 5

Designed for outdoor use with a robust composite shell that is IP68-rated; secure bayonet locking ring and sequenced contacts allow for hot plugging.



HR41A Series

- 10A max rated current
- 16, 18, 20 AWG
- 600 VAC/VDC
- Contact Positions: 5

This is a compact version rated for outdoor use. Features include a sequential mating structure and a double-action coupling ring for one step mating.



LF Series

- 10A max rated current
(depends on pin count)
- 16 - 26 AWG
- 125 VAC, 175 VDC
(depends on pin count)
- Contact Positions:
3, 4, 6, 11, 12, 20

These small and robust metal shell connectors are IP67-rated and include a bayonet coupling ring. A patented shielding connection spring eases assembly.





JR-W Series

- 30A max rated current
(depends on pin count
and shell size)
- 10 - 20 AWG
- 300 VAC (depends on
pin count)
- Contact Positions: 3, 4,
5, 7, 8, 10, 16, 24

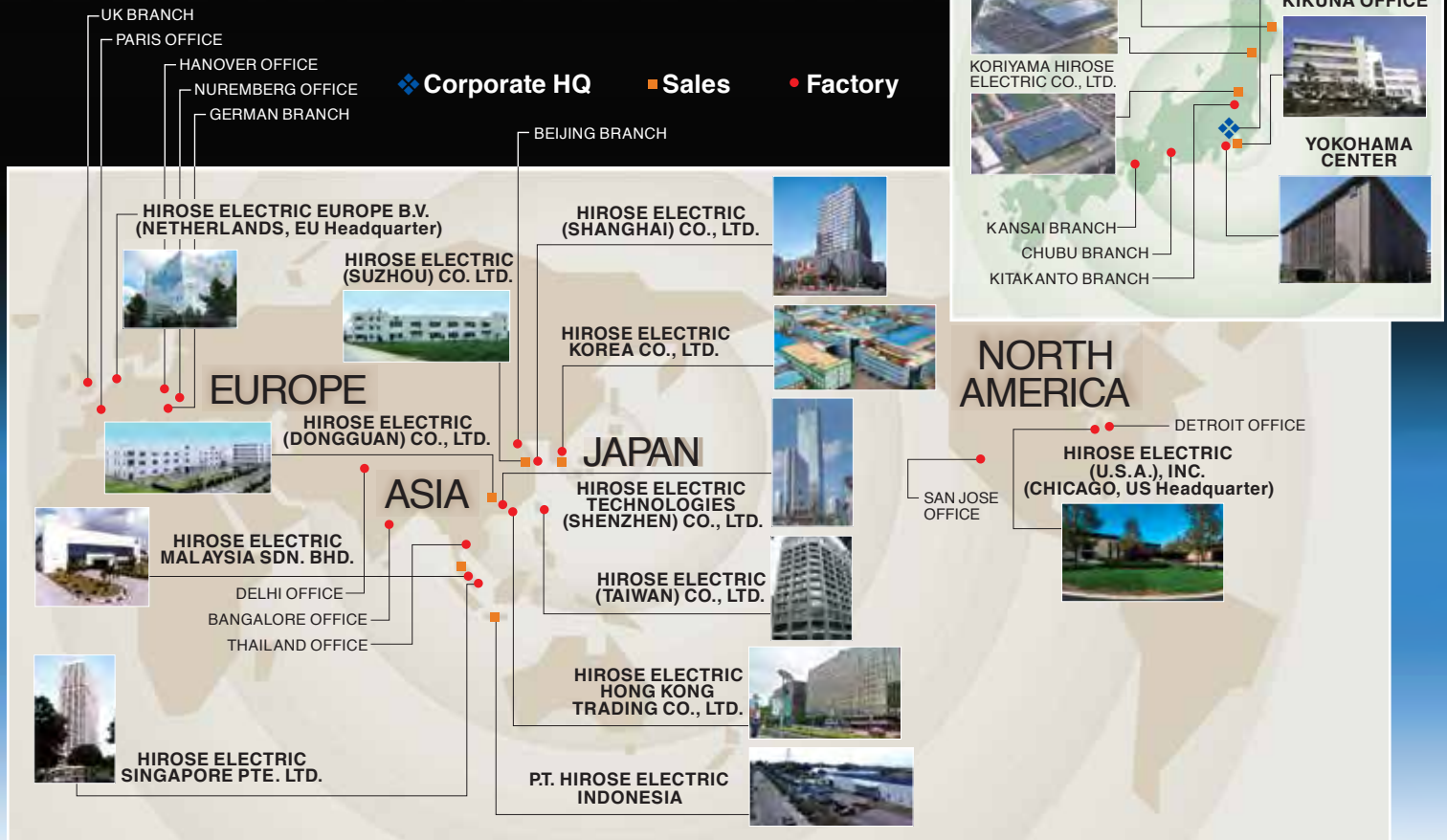
Suitable for outdoor use, these IP67-rated heavy-duty metal shell connectors offer anti-corrosion plating and five polarizing keys to assist with blind mating.

SERIES SPECIFICATIONS

W to B Series	Cable Size (AWG#)	Max Rated Current*	Rated Voltage* (AC/DC)	Pitch	Mounting Style	Operating Temperature		Features
KN27	18 to 24	9 A	600 V	4.0 mm	SMT	-40 to +130° C	✓ E132750	Low Profile
DF65	24 to 28	4 A	50 V	1.7 mm	SMT	-35 to +105° C	✓	Snap-lock mating
DF64	18 to 22	5 A	350 V	4.5 mm	SMT	-55 to +105° C	✓	Floating contact structure
DF63	16 to 18	15 A	630 V	3.96 mm	TH	-35 to +105° C	✓	Small size, high power
DF63W	16 to 22	14 A	630 V	3.96 mm	In-Line	-40 to +105° C	✓	Water resistant
DF62W	22 to 26	3 A	250 V	2.2 X 2.0 mm	In-Line	-35 to +105° C	✓	Water resistant
DF62	22 to 30	3 A	250 V	2.2 X 2.0 mm	In-Line	-35 to +105° C	✓	Smooth round profile
DF61	22 to 30	5 A	350 V	2.2 mm	SMT	-35 to +105° C	✓	Swing lock & high performance
DF59S/SN	N/A	3 A	350 V	N/A	SMT	-35 to +105° C	✓	Single pole B-to-B
DF59M	22 to 28	6 A	350 V	N/A	SMT	-40 to +105° C	✓	Single pole W-to-B
DF59	22	3 A	230 (350 V*)	2.0 mm	SMT	-35 to +105° C	✓	Multi-function swing lock
DF57H	28 to 34	2.5 A	50 V (100 V*)	1.2 mm	SMT	-35 to +105° C	✓	Micro-sized swing lock
DF33	20 to 22	5 A	500 V	3.3 mm	TH	-35 to +85° C	---	Vertical mounting with keying
DF22	10 to 16	30 A	1000 V	7.92 mm	TH	-35 to +105° C	✓	Keying and color coding
DF14	26 to 34	1 A	150 V	1.25 mm	SMT	-35 to +105° C	---	High density & low profile
DF13	26 to 32	1 A	150 V	1.25 mm	TH/SMT	-35 to +105° C	✓*	Single & double contact rows
DF11	22 to 30	2 A	250 V	2.0 mm	TH/SMT	-30 to +85° C	✓	Double contact rows
DF3	22 to 28	3 A	250 V	2.0 mm	TH/SMT	-30 to +105° C	✓*	Versatile mounting options
DF1B	20 to 30	3 A	250 V	2.5 mm	TH	-35 to +85° C	✓*	Versatile mounting options
GT8E	20 to 28	3 A	250 V	2.0 mm	TH/SMT	-40 to +105° C	✓*	Automotive Spec.
Circular Series	Cable Size (AWG#)	Max Rated Current*	Rated Voltage*	Lock Style	Cable Assembly Style	Operating Temperature		Features
HR41	10 to 18	20 A	600 VAC/VDC	Bayonet lock	Crimp	-40 to +105° C	✓	IP68 rated outdoor use
HR41A	16 to 20	10 A	600 VAC/VDC	Double action bayonet lock	Crimp	-40 to +105° C	✓	Easy push on mating
HR30	26 to 30	2 A / 5 A	30 to 100 VAC 42 to 140 VDC	Push pull lock	Solder/ Crimp	-25 to +85° C	---	Miniature size
HR34B	16 to 25	3 A / 5 A	200 to 400 VAC 250 to 400 VDC	Spring action bayonet lock	Solder/ Crimp	-20 to +125° C	---	Robust metal/plastic hybrid
LF	16 to 26	5 A / 10 A	30 to 125 VAC 125 to 175 VDC	Bayonet lock	Solder	-25 to +85° C	✓*	Robust with shielding
JR-W	10 to 20	5 A / 10 A / 30 A	100 to 300 VAC 140 to 420 VDC	Threaded	Solder	-25 to +85° C	✓*	Anti-corrosion plating

* Please consult Hirose for the latest specifications, drawings and certification details. Specifications herein are subject to change without notice. Voltage and current ratings can vary depending on pin count and/or shell size.

HIROSE ELECTRIC A GLOBAL NETWORK



A World Leader in Interconnect Technology

Hirose provides innovative, cutting edge solutions to your interconnect requirements. With over 70 years experience in design, development and manufacturing of interconnect solutions for the consumer, medical, industrial, and automotive markets, Hirose has established itself as a technology leader. Hirose remains on the forefront of interconnect technology working closely with customers to develop innovations in miniaturization, high speed data transmission, signal integrity and mechanical design.

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Hirose is an ISO 9001 company

