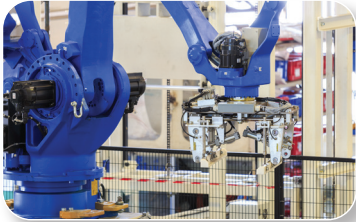


## Applications:



Industrial Robots



Office Automation



Smart Meter



Positive-Lock



P=2.0mm



Wide Variation

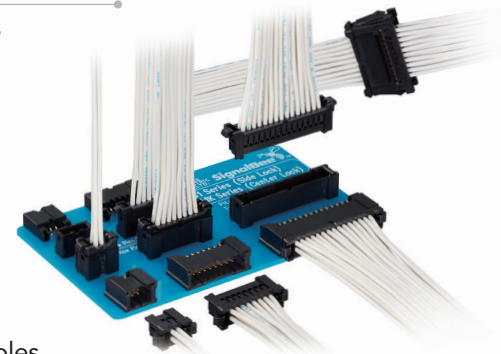


## Introducing the DF51B Series – Branch Connector

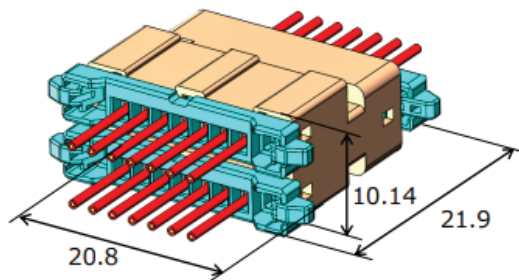
Discover the DF51B Connector by Hirose: a 2mm pitch, positive lock connector tailored for versatility. It offers a range of configurations including straight, right-angle, and branching. With its user-friendly side lock design, you're guaranteed an effortless and reliable connection. Designed to withstand strain, it's adaptable for varied cable types and proudly UL/C-UL certified.

### 2mm Pitch, Positive Lock, Crimp Type Connector

- Wide varieties satisfy various customer requirements, Straight/Right angle/ In-line Connection/Branch, Single/Dual row, Gold/Tin Plating, etc.
- Side lock design enables user-friendly operation and reliable connection
- High contact lance strength prevents contact pulling loose while wrenching the cables
- Applicable Cable: 22-30 AWG
- UL/C-UL certified

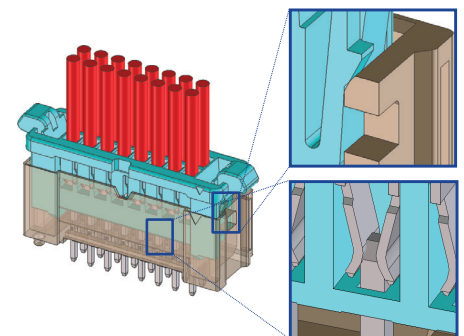


### Branch Connector

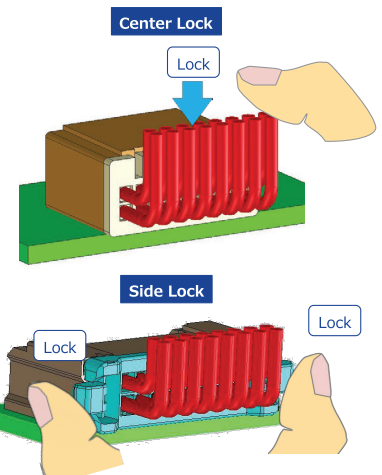


### Secure Mating

Clear Tactile Click  
Prevents Incomplete  
Insertion



### Lock Design



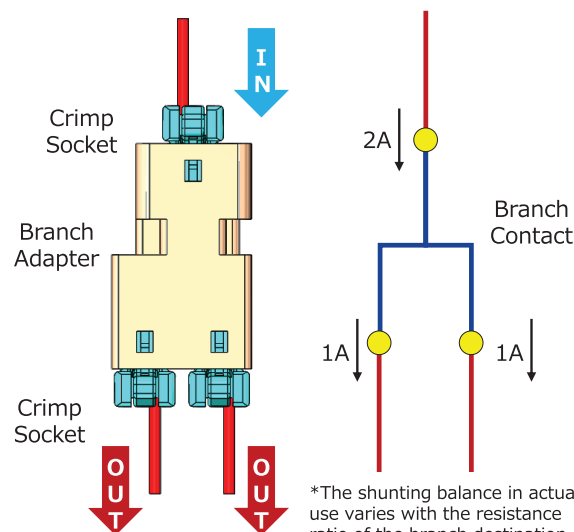
### Branch Design

The use of the adapter allows  
the current to branch

Simplified Wiring Contributes  
to Small Size and Light  
Weight Applications

**CLICK HERE**  
FOR MORE INFORMATION

**CLICK HERE TO ORDER**  
SAMPLE NUMBER:  
US-DF51BSAMPLE-23

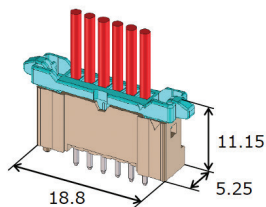


Reduces Overall System Size

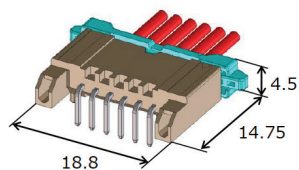
## Dimensions

### Straight

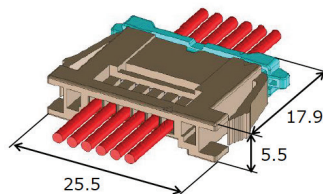
#### Single-row, Ex: 6pos.



### Right Angle

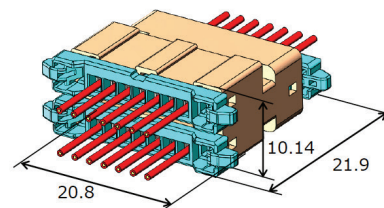


### In-line Connection

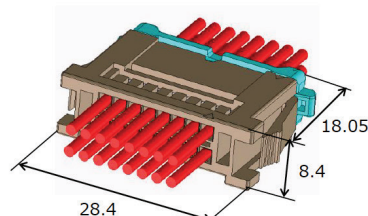
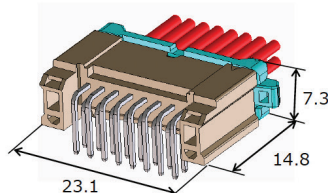
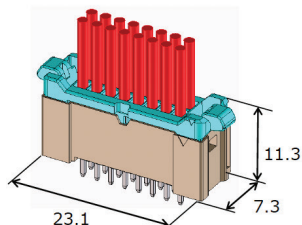


### Branch

#### Single-row, Ex: 7pos.



#### Dual-row, Ex: 16pos.



## Specifications

### MATERIAL & FINISH

Housing	Header	PBT	UL94V-0, Black
	Socket	PBT	UL94V-0, Black
	Adapter	PBT	UL94V-0, Black
Header Contact		Brass	Tin Plated or Gold Plated (Nickel Underplating)
Adapter Contact		Brass	Gold Plated (Nickel Underplating)
Crimp Contact		Phosphor Bronze	Tin Plated or Gold Plated (Nickel Underplating)

### CHARACTERISTICS

Rated Current		Pos.	22 AWG	24 AWG	26 AWG	28 AWG	30 AWG
	Single-Row	2	3A	2.5A	2A	1A	0.5A
		3-7	2A	2A			
	Dual-Row	4	3A	2.5A	1.5A		
		6-30	2A	2A			
Rated Voltage	250V AC/DC						
Operating Temperature	-55 to +105℃*						
Contact Resistance	30mΩ Max. (20mV, 1mA)						
Withstanding Voltage	650V AC for 1 min.						
Insulation Resistance	1000MΩ Min. (500V DC)						
Mating Durability	30 times (Sn), 50 times (Au)						

- Variations: Single row\_2-6pos., Dual row\_4-30pos., Single row (branch)\_2-4,6,7pos.
- Applicable cable: 22 to 30 AWG
- RoHS compliant

\* Including the temperature rising by current flow.



For additional information please go to  
[www.hirose.com/product/series/DF51](http://www.hirose.com/product/series/DF51)

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

STAY CONNECTED

