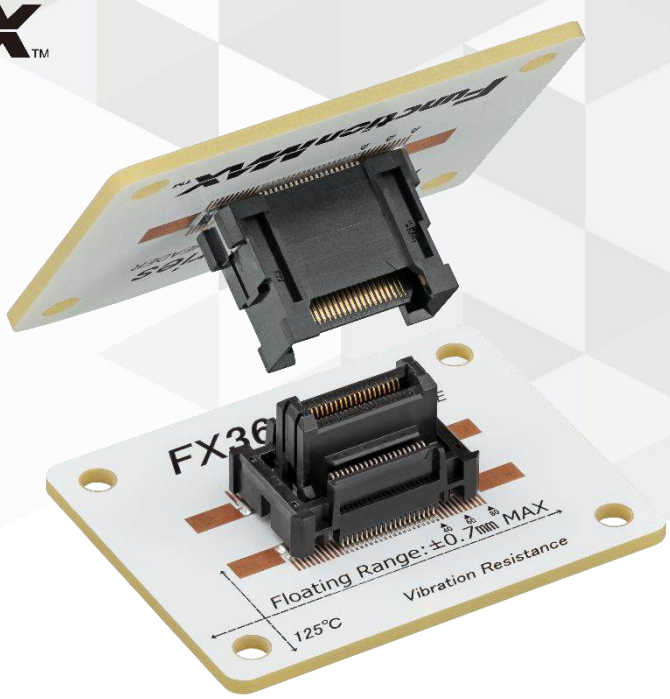
Product Catalog

FX36 Series

HIROSE ELECTRIC CO., LTD.

0.5mm Pitch, 15 to 20mm Height Board to Board for High-Vibration Environments

FunctionMAX™



Powertrain Applicable

Features

1 **Compact and Space saving**

2 **Mating possible even with misalignment**
X and Y directions: Floating range ±0.7mm
Z direction: Effective mating length ±0.5mm

3 **Vibration Absorption Design**
Z direction: PCB Amplitude Absorption Amount 0.05mm

4 **Two-point contact**

5 **125℃ Heat Resistance**

Click here to view the series page.
https: //www.hirose.com/en/product/series/FX36

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Specifications, Material and Finish

Specifications

Rated Current	0.5A / pin
Rated Voltage	50V AC/DC
Operating Temperature (Note)	-40 to +125ºC
Contact Resistance	65mΩ Max.
Withstanding Voltage	150V AC for 1 min.
Insulation Resistance	1,000MΩ Min. (100V DC)
Mating Durability	5 times

Note: Includes the temperature rise due to current flow.

Material and Finish

Products	Parts	MATERIAL	FINISH, REMARKS
Receptacle Header	Insulator	Polyamide Resin	Black / UL94V-0
	Contact	Copper Alloy	Contact: Gold Plating (Nickel Under Plating) Mounted Portion: Gold Plating (Nickel Under Plating)
	Retention Tab	Copper Alloy	Pure Tin Plating (Nickel Under Plating)

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Product Number Structure, Variations

Product Number Structure

Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

Header

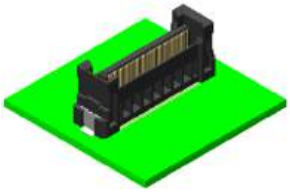
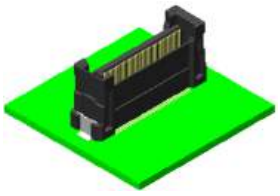
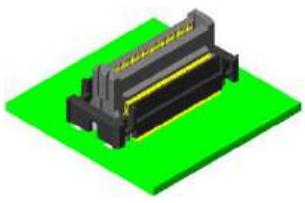
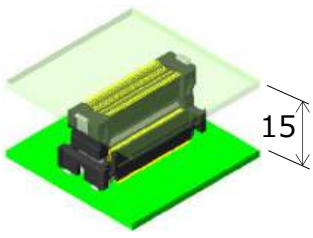
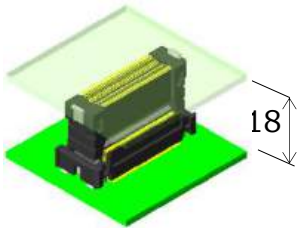
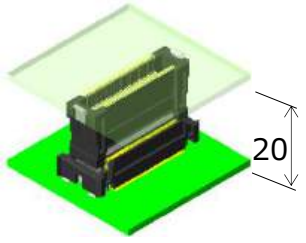
FX36	-	##	P	-	0.5	SV	20
1		2	3		4	5	6

Receptacle

FX36	-	##	S	-	0.5	SV
1		2	3		4	5

1 Series Name	FX36
2 No. of Pos.	40, 50, 60, 80
3 Connector Type	P: Header S: Receptacle
4 Contact Pitch	0.5mm
5 Product Shape	SV: Straight Type
6 Product Height	Mated Height [mm]＝15, 18, 20

Connection Variations Overview

Header / Receptacle	15mm	18mm	20mm
			
	FX36-##P-0.5SV15	FX36-##P-0.5SV18	FX36-##P-0.5SV20
 FX36-##S-0.5SV	 15	 18	 20 [mm]

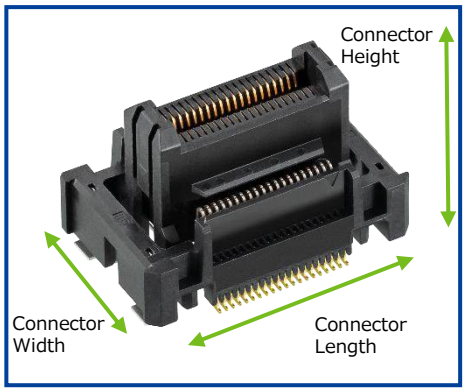
Note 1: ##correspond to pin counts. Please contact a Hirose representative for regarding the number of pos.
Note 2: Please contact our sales representative for information on the release status of board to board height variations.

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Product Lineup

Receptacle

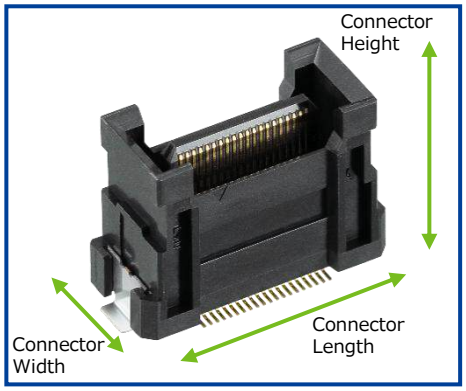


* Please refer to the following 2D drawing links for connector dimensions, recommended land pattern and packaging specifications

(mm)

HRS No.	Part No.	No. of Pos.	WEB Link	2D	SPEC	3D		Connector Length	Connector Width	Connector Height
CL0576-2001-0-00	FX36-40S-0.5SV	40	WEB	2D	SPEC	IGES	STEP	19.8	12.5	12.65

Header



* Please refer to the following 2D drawing links for connector dimensions, recommended PCB land pattern, mated condition and packaging specifications.

(mm)

HRS No.	Part No.	No. of Pos.	WEB Link	2D	SPEC	3D		Connector Length	Connector Width	Connector Height
CL0576-2300-0-00	FX36-40P-0.5SV20	40	WEB	2D	SPEC	IGES	STEP	19.6	7.8	14

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Design and Manufacturing Guidelines

Reference documents for connector use are provided below.
Please review these documents before designing with or using this product.
Each document can be accessed through the links in the table below.

Document Name	Overview
Product Guidelines	This document summarizes key points to consider during product design. It also includes important notes on mounting and handling. Please review this guideline before use. ●For details, please contact our sales representatives.

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While taking into consideration

Specifications mentioned in this catalog are reference values.
When considering to order or use this product, please review the Drawing and Product Specifications sheets.
Use an appropriate cable when using the connector in combination with cables.
If considering usage of a non-specified cable, please contact your sales representative.
If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.
If considering usage for below mentioned applications, please contact your sales representative.
In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.

HIROSE

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