



5Gを背景とした通信速度/取り扱う情報量の増大によって、基地局で使われる機器の内部接続も高速伝送への対応が必須となっています。

イリソ電子工業では、機器内部を繋ぐ様々な高速伝送対応コネクタをご準備しています。こちらではその一例をご紹介します。

高速フローティングコネクタ 10143 Series

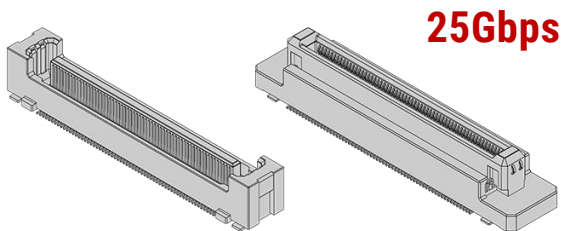
デジタル信号の高速伝送を可能とする0.5mmピッチ、フローティングタイプ平行接続(ST-ST) BtoBコネクタ。可動フローティング構造でXY方向に0.8mm可動。Z方向は0.5mmを嵌合長で吸収。16Gbps自社定義による代表参考値の高速伝送に対応。25Gbpsの高速伝送と、大きい可動域でのフローティング機能両立を実現させた、「ハイブリッド」コネクタ。固定金具機能を兼ねた、電源用端子をコネクタ両端に搭載。

縦型 Auto I-Lock

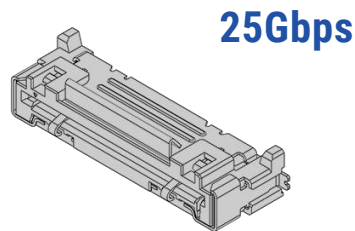
0.5mmピッチNON-ZIFSTタイプのFFCコネクタ。抜けにくいのに外しやすいAuto I-Lock構造。FFCカード挿入と同時にロックがかかる抜け防止構造を採用。ロボット組立適合コネクタ対象製品として、組立自動化に貢献します。

小型フローティングコネクタ 10126 Series

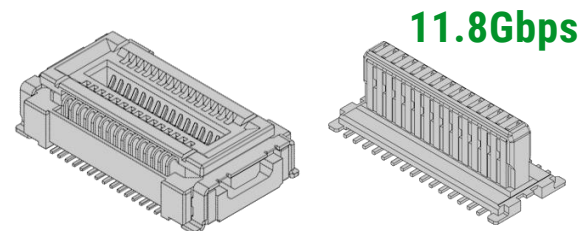
0.4mmピッチのフローティング基板対基板コネクタです。XY方向に±0.4mm可動し、Z方向にも0.7mmの有効嵌合長を有しています。ラインナップされている他のコネクタと併せてお使いいただくことで、業界最大クラスの可動量を実現し、高品質な組み立てへ貢献いたします。



25Gbps



25Gbps



11.8Gbps





In 5G era, Data Rate of electrical connections inside of equipment for Base Station is definitely getting higher day by day.

IRISO is offering many type of internal connectors suitable for high-speed data interconnection. See some examples below!

High Speed Floating Connector 10143Series

The 10143 series is a floating board to board connector (0.5mm pitch, 2rows, ST RA connection). Supports 16Gbps high speed transmission (benchmark data transfer rates conducted by IRISO).

This is a "Hybrid" connector which supports a 25 Gbps high speed transmission rate, also it has a floating function with a versatile range of motions.

Both ends of the connector are equipped with power supply terminals that are also serve as mounting brackets.

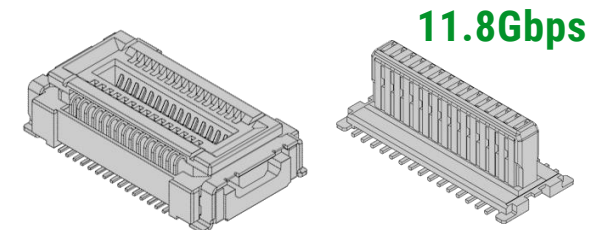
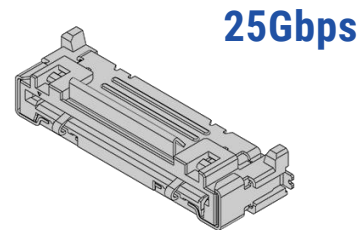
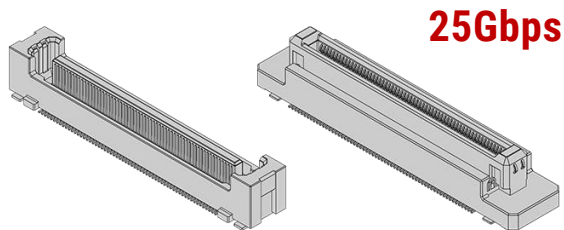
Vertical Auto I-Lock 11600 Series

The 11600 Series is a 0.5mm pitch NON-ZIF ST type FFC connector. It has the "Auto I-Lock" structure unique to Iriso that locks automatically when the FFC card is inserted. As a robot assembly compatible connector, it contributes to assembly automation.

Floating Connector 10126Series

It is a Board-to-Board connector with a 0.4 mm pitch. Movable ± 0.4 mm in the XY direction, and it also has an effective mating length of 0.7 mm in the Z direction.

By using it together with other connectors in the lineup, we will realize the industry's largest class of movable amount and contribute to high quality assembly.



IMSA-10143S-XXX~~Y~~9XX

IMSA-10143B-XXX~~Y~~9XX

Product Spec

Item	Unit	Specification
Pitch	mm	0.5
Floating	mm	X:±0.8 Y:±0.8
Mating height	mm	10~30 (under planning)
Pin Counts	ckt	20~160 (under planning)
Connecting Type	—	Stacking
Operating Temperature Range	℃	-40~125
Rated Current	A	Signal : 0.5A/pin, Power : 3.0A/pin
Rated Voltage	V	Signal : 50V, Power : 50V
Withstand Voltage	V	Signal : AC150V, Power : 150V

Plug

Parts	Material	Plating
Housing	LCP	—
Retainer	LCP	—
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Tin

Socket

Parts	Material	Plating
Housing	LCP	—
Retainer	LCP	—
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Gold

* For packaging info, please refer to our packaging drawing.

* Contents are subject to change without prior notice, due to our quest for improving product performance. Dimensions and specifications described herein are limited to major items. For more details on how to use this connector, please request a drawing and specification sheet. *Specifications may be subject to changes without prior notice, due to our quest for improving product performance.



IMSA-11600S-**Y9**

Product Spec

Item	Unit	Specification
Pitch	mm	0.5
Lock	–	Auto I-Lock
Pin Counts	ckt	8~60
Mount Type	–	Straight
Operating Temperature Range	℃	-40~+105
Rated Current	A	0.5
Rated Voltage	V	50
Contact Resistance	mΩ	40
Withstand Voltage	V	250
Durability (Insertion/Withdrawal)	times	20

Socket

Parts	Material	Plating
Housing	LCP	–
Contact	Corson Alloy	Gold
Metal Flange	Phosphor Bronze	Tin
Half Lock Contact	Phosphor Bronze	Tin

* For packaging info, please refer to our packaging drawing.

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IMSA-10126S-XXXXY9XX

IMSA-10126B-XXXXY9XX

Product Spec

Item	Unit	Specification
Pitch	mm	0.4
Floating	mm	XY:±0.4 Z:0.7(Effective mating length)
Mating height	mm	2.0~5.0
Pin Counts	Pos	20~60
Connecting Type	-	Stacking
Operating Temperature Range	℃	-40~+125
Rated Current	A	0.4
Rated Voltage	V	50
Contact Resistance	mΩ	Initial : 100 After test : 120
Withstand Voltage	V	AC100
Durability (Insertion/Withdrawal)	times	30

Plug

Parts	Material	Plating
Housing	LCP	-
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Tin

Socket

Parts	Material	Plating
Housing	LCP	-
Retainer	LCP	-
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Tin

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