



パワートレイン周りの電気接続には、高い耐熱性と振動に対する耐性が要求されます。

イリソ電子工業では「Z-Move」を始めとする独自技術を軸とした製品をイーアクセル用にご提案させていただきます。

## Unit-able Connector

車載アプリケーション用中継I/Fコネクタと可動ソケットのコンセプト。基板実装側のソケットにフローティング構造を設け、嵌合時にコネクタが可動して組付けズレを吸収。はんだクラックを防止。また、ワイヤーハーネスと基板実装側ソケットの間に中継I/Fコネクタを介することで、ワイヤーハーネスのピン配列を中継I/Fコネクタ内で変換し、基板実装コネクタと接続。使用するワイヤーハーネスに合わせて中継I/Fだけを変えることで、基板・ユニットの共通化を実現。

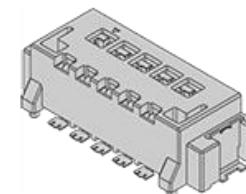
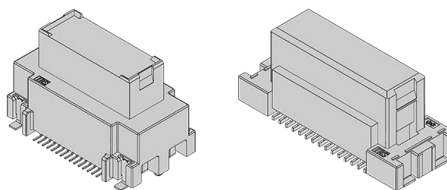
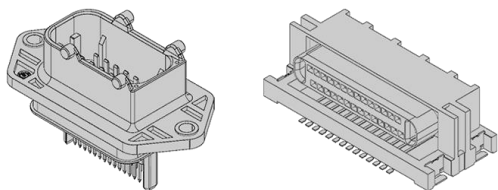
## 10128 Series

0.8mmピッチ、Z可動（Z-Move™）フローティングタイプ平行接続BtoBコネクタ。可動（フローティング）構造でX-Y方向に0.5mm可動。Z方向は0.02mmの共振振幅と0.5mmの有効嵌合長。タフな環境でも確実に異物の除去を行う2点接点コンタクト採用。高温環境下での使用に耐える125℃対応製品。イリソ独自のフローティングテクノロジー「Z-Move™（ジームーブ）」を採用。接点が固定されたままZ方向に可動し共振・衝撃による接点ズレを防ぐ耐振動性、耐衝撃性に優れたコネクタです。

## 18021 Series

フローティング機能（嵌合部可動）を有したピンヘッダ用ソケット（ピッチ：2.54mm、0.64mm角）。

基板スタックに最適なボトム嵌合方式を採用しており、従来の手はんだによる基板接続をコネクタに置き換える事で、繊細なはんだ付け工程を排し、接続信頼性を向上いたします。





Harsh environment surrounding power-train such as high temperature and/or vibrations require high reliability features on electrical interconnection.

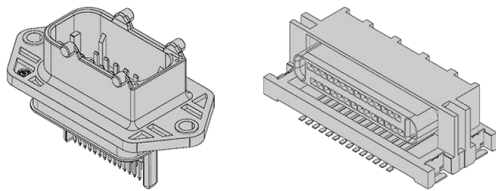
IRISO is offering several products as connectors for "E-Axel" with our unique technologies of "Z-Move" and so on. They definitely will help you to design such components. See some examples bellow!

## Unit-able Connector

Unit-able is the concept of relay I / F connector and floating socket for automotive applications.

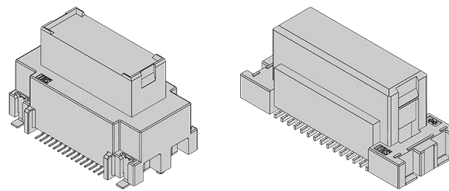
The floating structure is provided in the socket on the board mounting side, and the connector moves when mated to absorb assembly misalignment. And this prevents solder cracks.

By changing only the relay I / F shape according to the wire harness to be used, the board and unit can be standardized.



## 10128 Series

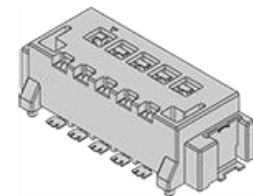
10128 Series is floating Board to Board connector (0.8mm pitch, 2 rows). In addition to IRISO's unique function "Z-Move™", the contact is designed with two point contact. It is expected and designed to be durable under severe vibrating condition. Our unique vibration simulation will propose a fixing method that is suitable for your equipment, and will strongly support your design.



## 18021 Series

Floating bottom entry socket for pin header (Pitch:2.54mm, 0.64mm square).

It is featured with bottom entry mating structure which is suitable for stacking the PCBs. By shifting from connector with manual soldering process to this connector, you can reduce the soldering process and increase contact reliability.



IMSA-10128S-XXXYYYY

IMSA-10128B-XXXYYYY

## Product Spec

Item	Unit	Specification
Pitch	mm	0.8
Floating	mm	X:±0.5 Y:±0.5
Mating height	mm	18
Pin Counts	ckt	30,50
Connecting Type	–	Stacking
Operating Temperature Range	°C	-40~+125
Rated Current	A	0.5
Rated Voltage	V	125
Contact Resistance	mΩ	100
Withstand Voltage	V	250
Durability (Insertion/Withdrawal)	times	30

## Socket

Parts	Material	Plating
Housing	PA9T	–
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Sn

## Plug

Parts	Material	Plating
Housing	PA9T	–
Retainer	PA9T	–
Contact	Copper alloy	Gold
Metal Flange	Copper alloy	Sn

\* 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-18021S-XXY90X

### Product Spec

Item	Unit	Specification	Note
Pitch	mm	2.54	-
Floating	mm	X:±0.5 Y:±0.5	-
Pin Counts	ckt	3,5	-
Connecting Type	-	Stacking	-
Operating Temperature Range	℃	-40~+125	-
Rated Current	A	1.0	-
Rated Voltage	V	125	JIS C60664-1 Pollution Degree II
Contact Resistance	mΩ	100	Max.120 (After test)
Withstand Voltage	V	500	
Durability (Insertion/Withdrawal)	times	10	-

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

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