

# 12004 Series - FPC/FFC I-Lock Connector -



12004S is developed for PCBs between LCD and Touch panel display. Inline connector with 0.4mm pitch is suitable to mount on edge of the board and save space when high pin counts are needed. Features are 2 point contact for high contact reliability and front flip.

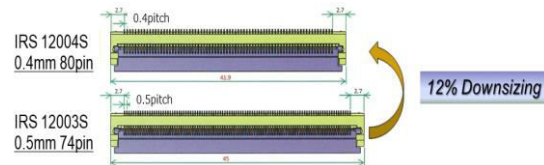
## 【Target Application】

ADAS(Sensing Device), Powertrain, Infotainment(Cockpit), Consumer Product(Household/Commercial), DCE, Industrial Equipment, Robot

## Save Space

Application which requires less than 0.5mm pitch uses 0.3mm pitch with staggered type which is already on the market. However, staggered 0.3mm pitch is inconvenient in terms of mounting due to SMT needed on both sides.

12004S is the smallest inline 0.4mm pitch FPC/FFC connector.(Internal research) 12004S is downsized more than 10% compared to IRISO's 0.5mm pitch "12003S" and contributes on saving space on PCB.



## Reduce numbers of parts due to high pin counts

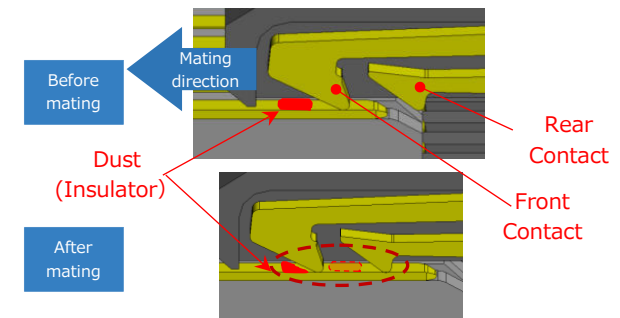
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74pin x4  
100pin x3

## 2 point contact

IRISO's FPC/FFC Connector 2 point contact structure is against single mating path. This structure raise chances of making clean contact while mating surfaces are contaminated by foreign substances such as dust/flu. 12004S can be used for applications which requires high contact reliability.



## IMSA-12004S-XXY9XX

### Product Spec

Item	Unit	Specification
Pitch	mm	0.4
Mating height	mm	-
Pin Counts	ckt	80~120
Mount Type	-	Right angle
Operating Temperature Range	℃	-40～+105
Rated Current	A	0.4
Rated Voltage	V	50
Contact Resistance	mΩ	40
Withstand Voltage	V	250
Durability (Insertion/Withdrawal)	times	20

### Plug

Parts	Material	Plating
Housing	-	-
Retainer	-	-
Contact	-	-
Metal Flange	-	-

### Socket

Component	Material	Plating
Housing, Cover	LCP	-
Contact	Phosphor Bronze	Gold
Metal Flange	Phosphor Bronze	Tin

\* 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.

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