

IRISO ELECTRONICS

11501 SERIES

FPC/FFC AUTO I-LOCK™ CONNECTOR

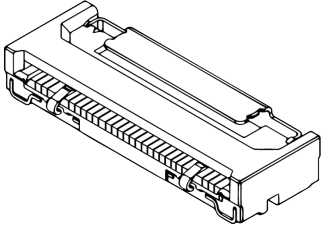


Applications:

All Industries and Applications



PRODUCT INFORMATION



The 11501 Series is a 0.5mm pitch FFC/FPC connector, which provides positive locking with IRISO's auto lock engagement feature, Auto I-Lock™. The connector series' signal integrity characteristics are tuned to handle 25Gbps+ LVDS. The provided option comes with or without an EMC drop terminal.

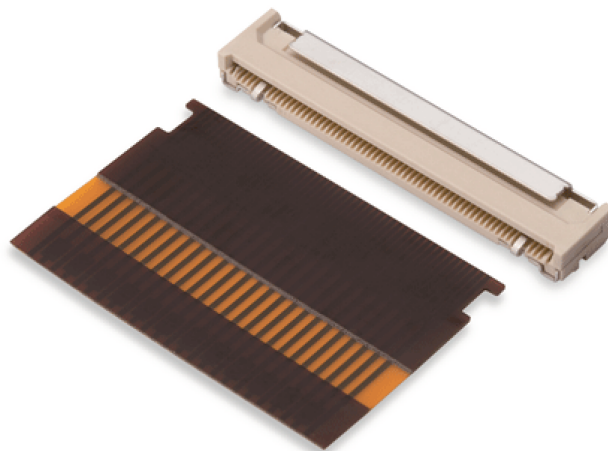
The 11501 Series is identical to our 11600 series. However, the contact type is a right angle, bottom contact instead of a vertical, single contact.



PRODUCT FEATURES

1: AUTO I-LOCK™

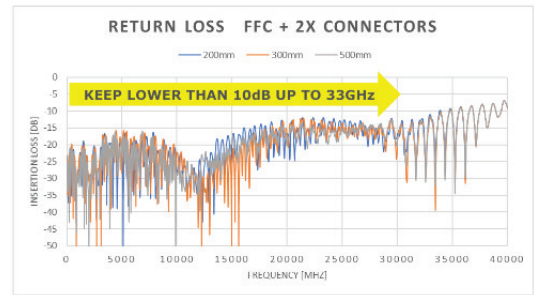
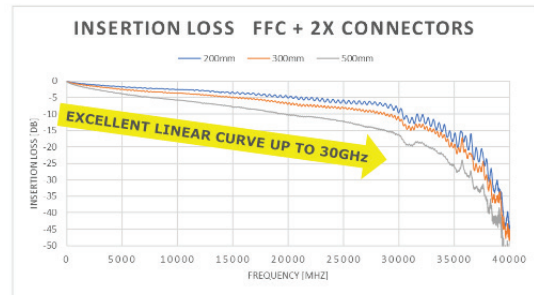
IRISO's trademarked Auto I-Lock™ does not require secondary operation, such as a slider lock or flip lock after FFC insertion. The provided locking mechanism will engage the FFC into the correct mating position automatically and hold the FFC withstands against extraction forces from every kind of direction. To remove FFC from the housing, there is a provided push-button for releasing the locked FFC.



PRODUCT FEATURES

2: HIGH SPEED

The Auto I-Lock™ feature was designed with terminals that handle high-speed frequencies smoothly. The Auto I-Lock™ technology has been tested with FFC's that are balanced to accommodate 25Gbps in applications. This solution could save customers from using expensive PCBs or pigtail harnesses.



3: ROBOT AUTOMATION

IRISO's Auto I-Lock™ also enables the utilization of multi-access robots for cable assemblies. This will not only cut labor costs but increase quality as well.



COMMON APPLICATIONS

ADAS
SENSING

INFOTAINMENT
(COCKPITS)

HOME
APPLIANCES

COMMERCIAL
APPLIANCES

COMMS
EQUIPMENT

INDUSTRIAL
EQUIPMENT

ROBOTS

PRODUCT SPECS

IMSA-11501S-**-Y9**

Item	Specification	Unit
Pitch	0.5	mm
Lock	Auto I-Lock™	–
Pin Counts	8 ~ 60	Circuit
Mount Type	Right Angle	–
Operating Temperature Range	-40 ~ +105	°C
Rated Current	0.5	A
Rated Voltage	50	V
Contact Resistance	40	mΩ
Withstand Voltage	250	V
Durability (Insertion/Withdrawl)	20	Times

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

**Specification is subject to change without prior notice in order to improve the performance of the product. Dimensions and specifications described herein are limited to major items. When applying the products, please confirm the details on the drawing and specification sheets which will be provided upon request.

Age Group	No (%)	Yes (%)	Don't know (%)	Refuse to answer (%)
A (18-24)	10	15	15	60
B (25-34)	10	15	15	60
C (35-44)	10	15	15	60
D (45-54)	10	15	15	60
E (55-64)	10	15	15	60
F (65-74)	10	15	15	60
G (75-84)	10	15	15	60
H (85+)	10	15	15	60

Technical drawing of a three-channel metal structure, likely a component of a machine or vehicle chassis. The drawing shows three channels arranged vertically, with dimensions and tolerances specified.

Dimensions and Tolerances:

- Overall Width:** D
- Channel Width:** C
- Channel Spacing:** A
- Channel Depth:** B
- Channel Height:** 1.75 ± 0.1
- Channel Thickness:** 4 ± 0.1
- Channel Spacing (Bottom):** 2
- Channel Spacing (Top):** 1.95
- Channel Spacing (Middle):** 6.75
- Channel Spacing (Bottom):** 8.2
- Channel Spacing (Total):** 1.95
- Channel Spacing (Total):** 6.75
- Channel Spacing (Total):** 8.2
- Channel Spacing (Total):** 1.95
- Channel Spacing (Total):** 6.75
- Channel Spacing (Total):** 8.2

Material and Surface Treatment: 11501S-**A-GFNI

Detail View: A circular detail view shows a hole with a diameter of $\phi 1.5^{+0.1}_{-0}$ and a thickness of $1.5^{+0.1}_{-0}$.

SECT. X-X

NOTE

製品引き出し方向
PRODUCT WITHDRAWAL DIRECTION

カバーテープの剥離強度/COVER TAPE PEELING FORCE

シングルキャリア
F=24mm IS SINGLE CARRIER

560mm

1,000mm

製品投入部
PRODUCT FILLING PORT

製品引き出し方向
PRODUCT
WITHDRAWAL DIRECTION

製品引き出し方向
PRODUCT
WITHDRAWAL DIRECTION

120°

2.0

(φ13)

(φ21)

(φ8)

2.5

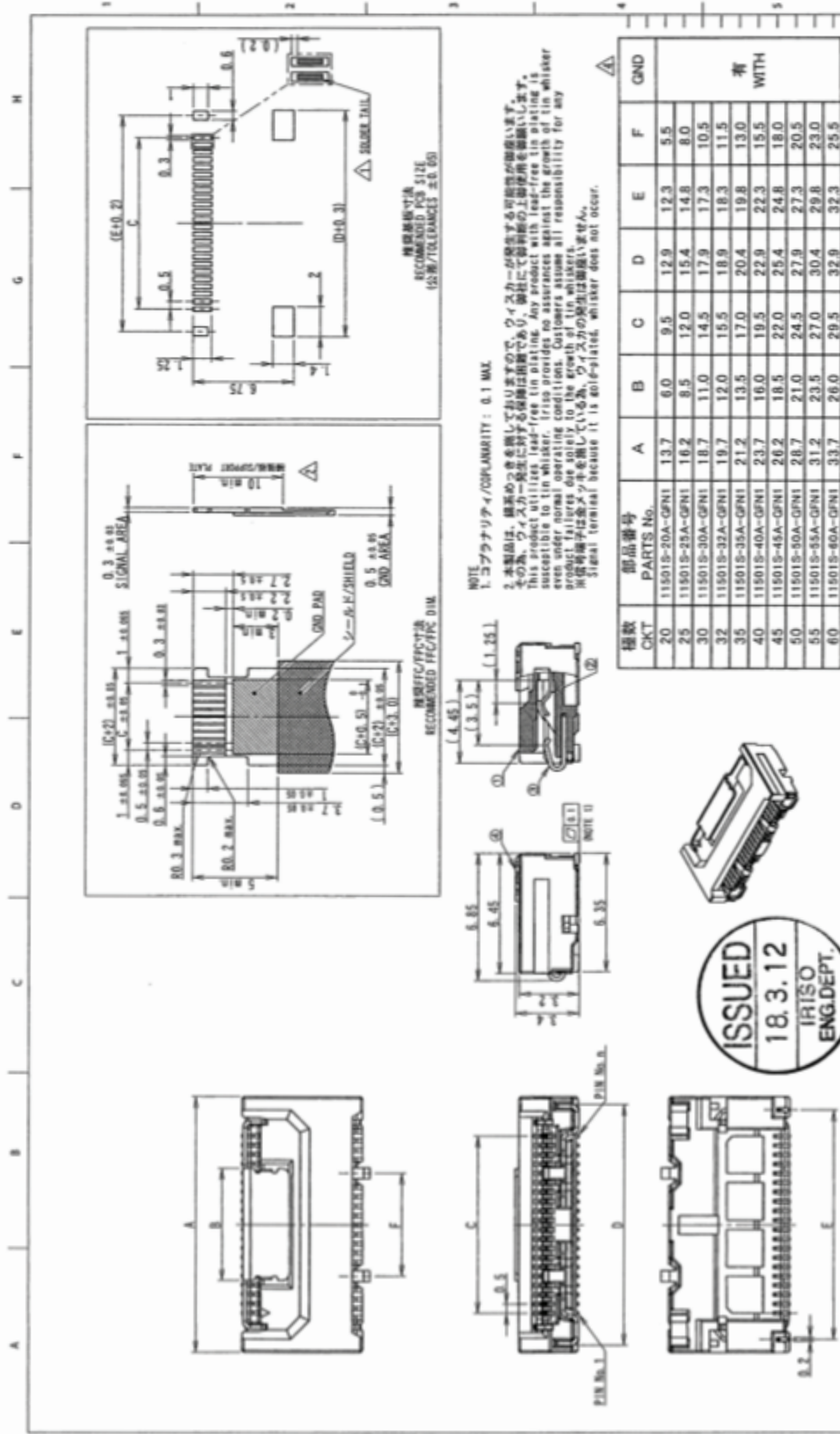
(F+1.5)
(F+5.5)

機軸/CKT	期目番号 PARTS No.	A	B	C	D	E	GND
20	1501S-203900	14.0					
25	1501S-253900	16.5	11.5	-	24.0	21.5	
30	1501S-303900	19.0					
30	1501S-303900	19.0	14.2	28.4	32.0	26.0	
32	1501S-323900	20.0					
35	1501S-353900	21.5					
40	1501S-403900	24.0					
45	1501S-453900	26.5	20.2	40.4	44.0	37.0	有 WITH
50	1501S-503900	29.0					
55	1501S-553900	31.5					
60	1501S-603900	34.0	26.2	52.4	56.0	49.0	

[illegible]

DO NOT SCALE DRAWING.
THIS DRAWING CONTAINS

SOCKET DRAWING

[illegible][illegible]

ABOUT

IRISO ELECTRONICS



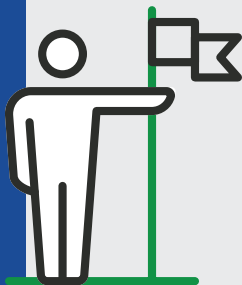
It started with a single pin...

IRISO has been contributing to the development of the electronics industry worldwide for over 50 years since its foundation as a comprehensive connector manufacturer in 1966. Our more than 3000 employees support customers worldwide on a wide range of innovative new products designed to meet the needs of our industry both today and tomorrow.



Connected with our customers...

Our customers are at the core of our business. Based on the concept of “market-in”, we develop and manufacture products that are closely linked to customer needs. We listen carefully to customer feedback, verify any issues that may exist in all processes from concept to the production line, and incorporate the feedback into the product design. We take a consultative approach to developing custom products in order to ensure a successful partnership.

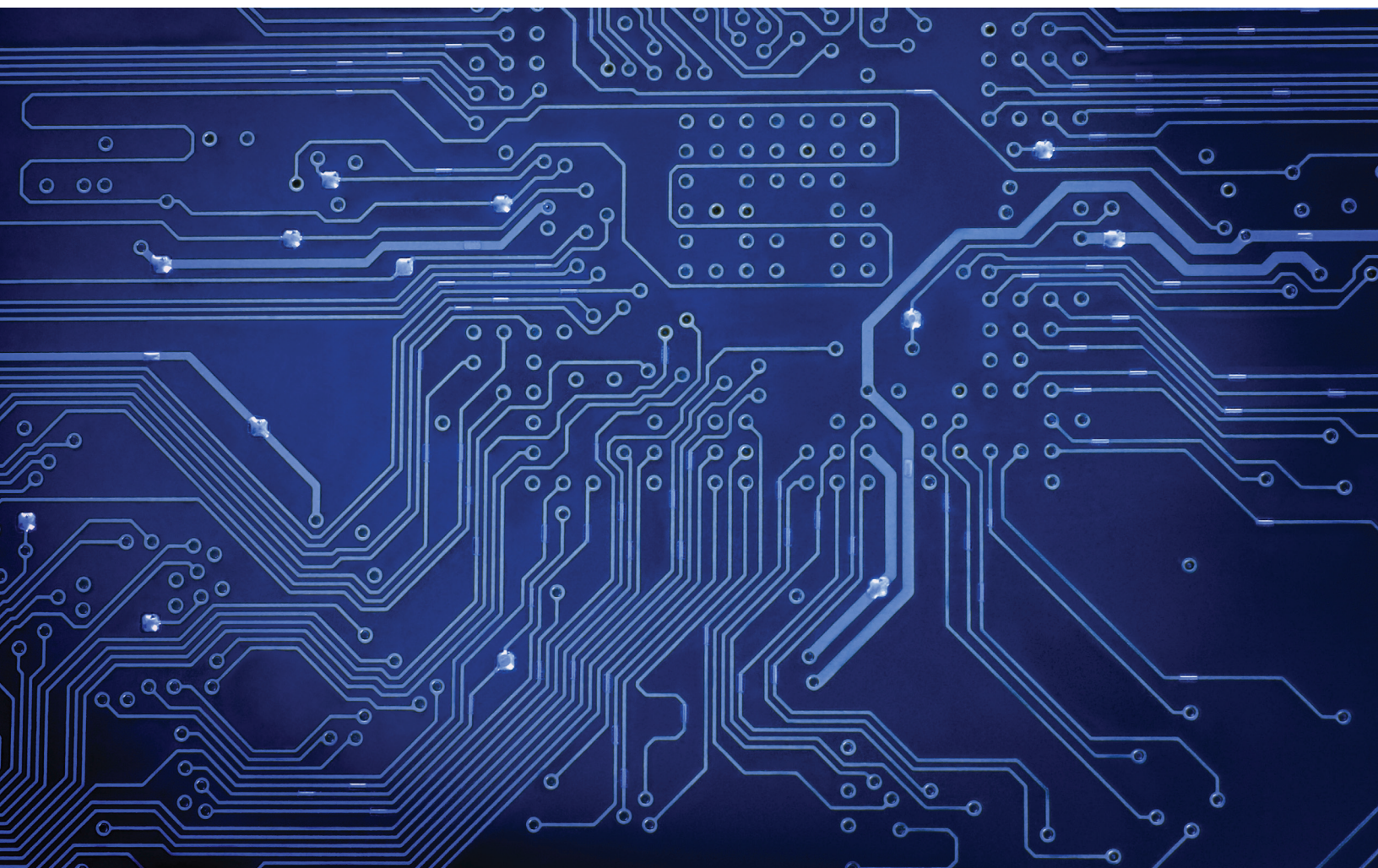


As a bridge to the future...

With beginnings in the Car AV and electronics, IRISO has established itself as a leading company in the development of connectors for the automotive market. For more than fifty years we have continued to devote ourselves to developing the field of electronics. Over the years, we have significantly expanded the range of our automotive product development to include a wide range of connectors for ADAS, electric powertrain and infotainment applications of today and tomorrow.

LEARN MORE AT: IRISOCONNECTORS.COM

Connecting a Better Future.



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