

# IRISO ELECTRONICS

## 11501/11600 SERIES

FPC/FFC AUTO I-LOCK™ CONNECTOR

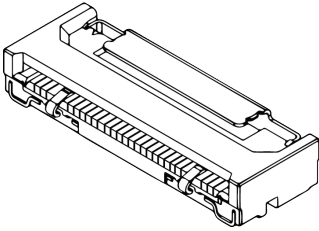


**Applications:**

All Industries and Applications

 **IRISO**

# 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.

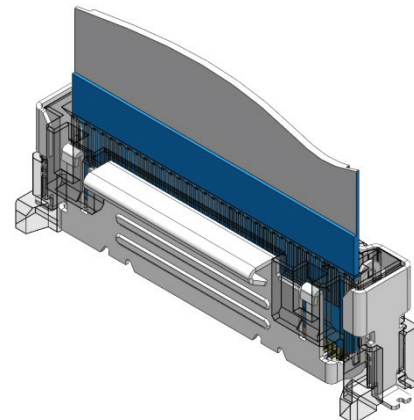
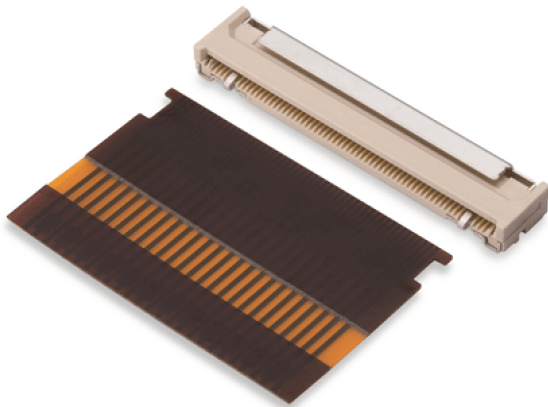
The 11501 Series is identical to our 11600 series. However, the contact type is a right angle, bottom contact instead of a vertical, single contact.



## PRODUCT FEATURES

### 1: AUTO I-LOCK™

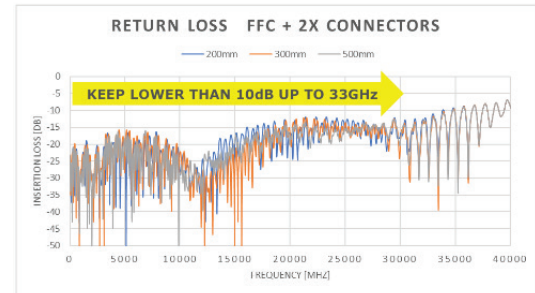
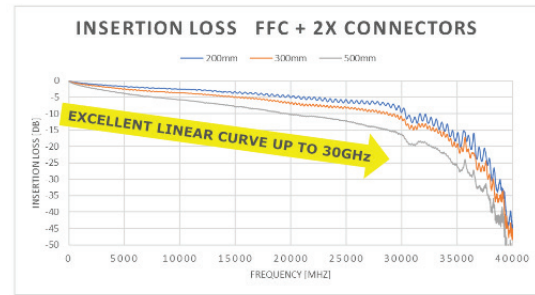
IRISO's trademarked Auto I-Lock™ does not require secondary operation, such as a slider lock or flip lock after FFC insertion. The provided locking mechanism will engage the FFC into the correct mating position automatically and hold the FFC withstands against extraction forces from every kind of direction.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

IMSA-11600S-\*\*-Y9\*\*

| Item                                | Specification           | Unit    |
|-------------------------------------|-------------------------|---------|
| Pitch                               | 0.5                     | mm      |
| Lock                                | Auto I-Lock™            | –       |
| Pin Counts                          | 8 ~ 60                  | Circuit |
| Mount Type                          | Right Angle or Verticle | –       |
| Operating Temperature Range         | -40 ~ +105              | °C      |
| Rated Current                       | 0.5                     | A       |
| Rated Voltage                       | 50                      | V       |
| Contact Resistance                  | 40                      | mΩ      |
| Withstand Voltage                   | 250                     | V       |
| Durability<br>(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

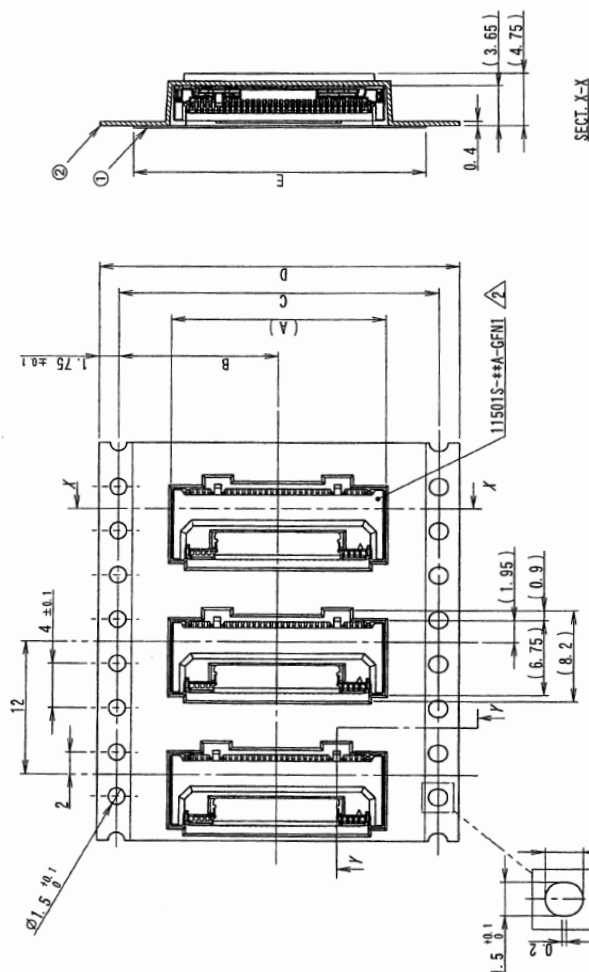
\*\*Specification is subject to change without prior notice in order to improve the performance of the product. Dimensions and specifications described herin are limited to major items. When applying the products, please confirm the details on the drawing and specification sheets which will be provided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

製品引き出し方向  
PRODUCT WITHDRAWAL DIRECTION

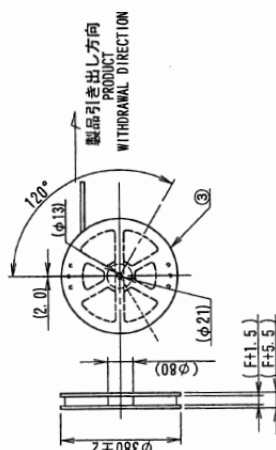
| 組號/CKT | 產品番號<br>PART'S NO. | A    | B    | C    | D    | E    |
|--------|--------------------|------|------|------|------|------|
| 20     | 15013-201900       | 14.0 |      |      |      |      |
| 25     | 15013-201900       | 14.0 | 11.5 | -    | 24.0 | 21.5 |
| 30     | 15013-201900       | 13.5 |      |      |      |      |
| 35     | 15013-201900       | 13.5 |      |      |      |      |
| 40     | 15013-201900       | 20.0 | 14.2 |      |      |      |
| 45     | 15013-201900       | 21.5 |      | 28.4 | 32.0 | 26.0 |
| 50     | 15013-201900       | 21.5 |      |      |      |      |
| 55     | 15013-201900       | 21.5 |      |      |      |      |
| 60     | 15013-201900       | 24.0 | 20.2 | 40.4 | 44.0 | 37.0 |
| 65     | 15013-201900       | 26.5 |      |      |      |      |
| 70     | 15013-201900       | 28.0 |      |      |      |      |
| 75     | 15013-201900       | 31.5 |      |      |      |      |
| 80     | 15013-201900       | 31.5 |      |      |      |      |
| 85     | 15013-201900       | 34.0 | 26.2 | 52.4 | 56.0 | 49.0 |
| 90     | 15013-201900       | 34.0 |      |      |      |      |

**NOTE**

1. 梱包数量/UNIT QUANTITY:1500  
2. リードテープ長さ/LEAD TAPE LENGTH



SECT. X-X



SECT. Y-Y

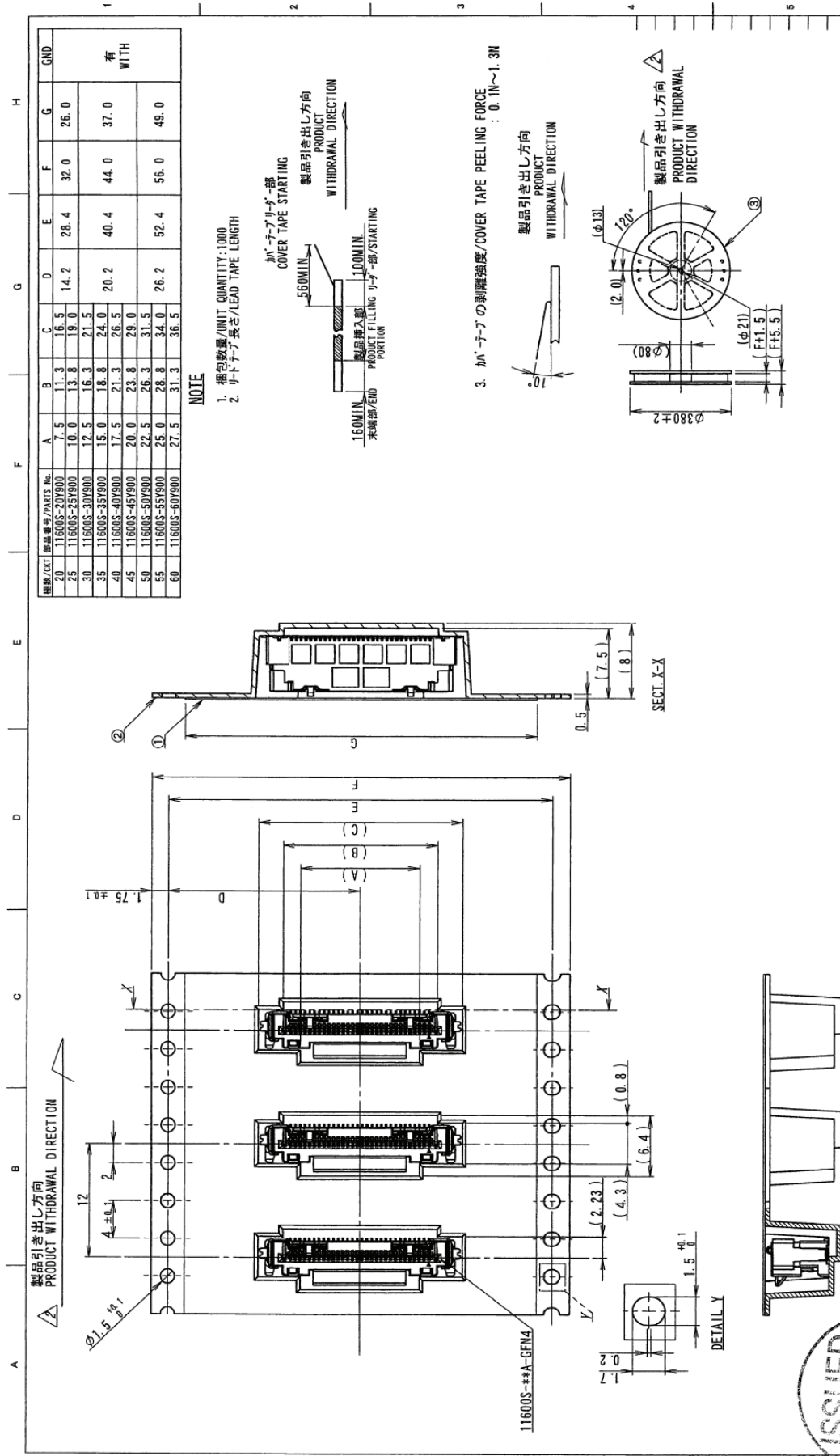
ISSUED  
16.9.-9  
IRISO  
ENGDEPT

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| 記号 | CON NO | 記 |
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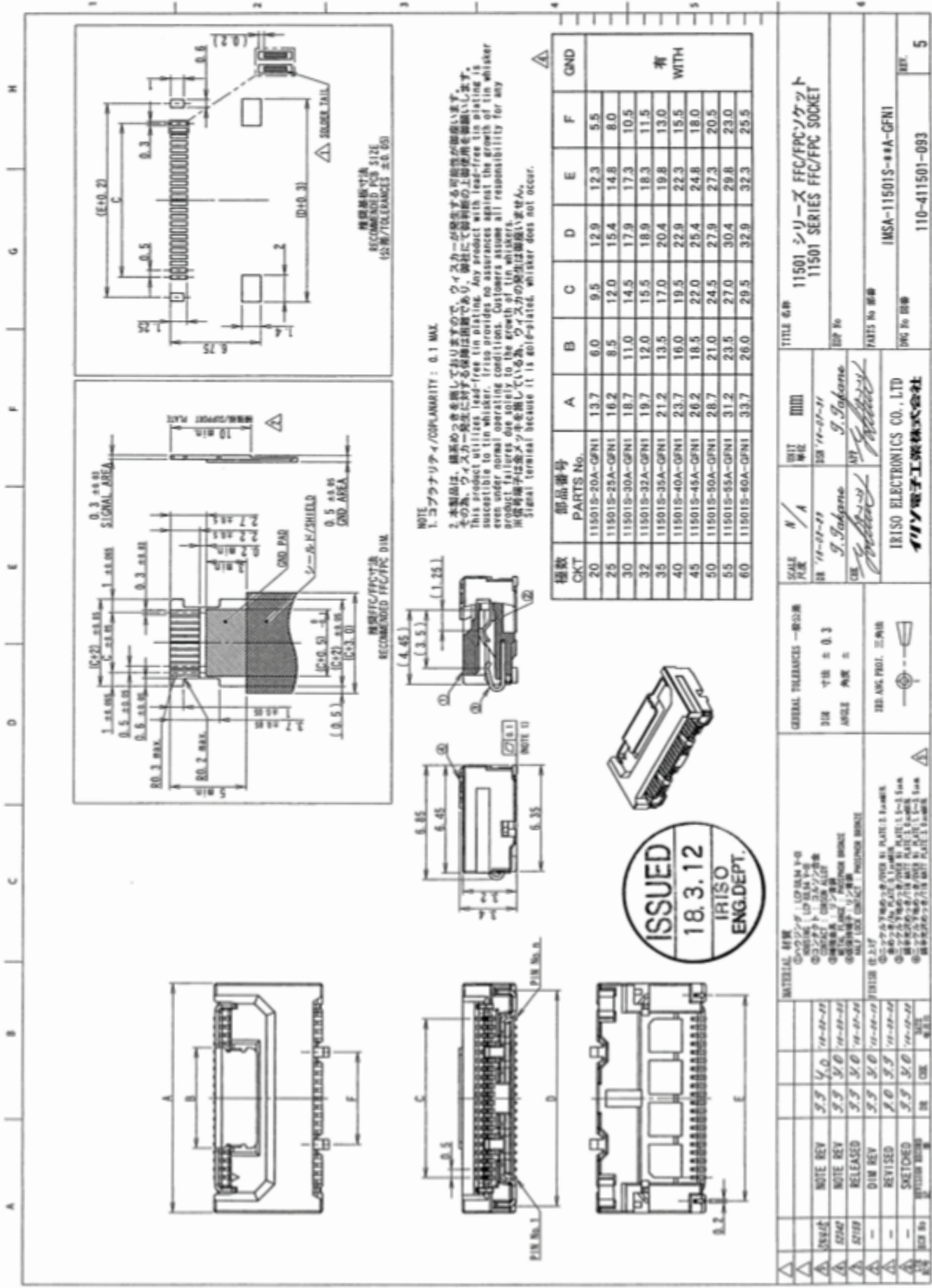
NO NOT SCALE DRAWING.

# 11600 PACKAGING DRAWING

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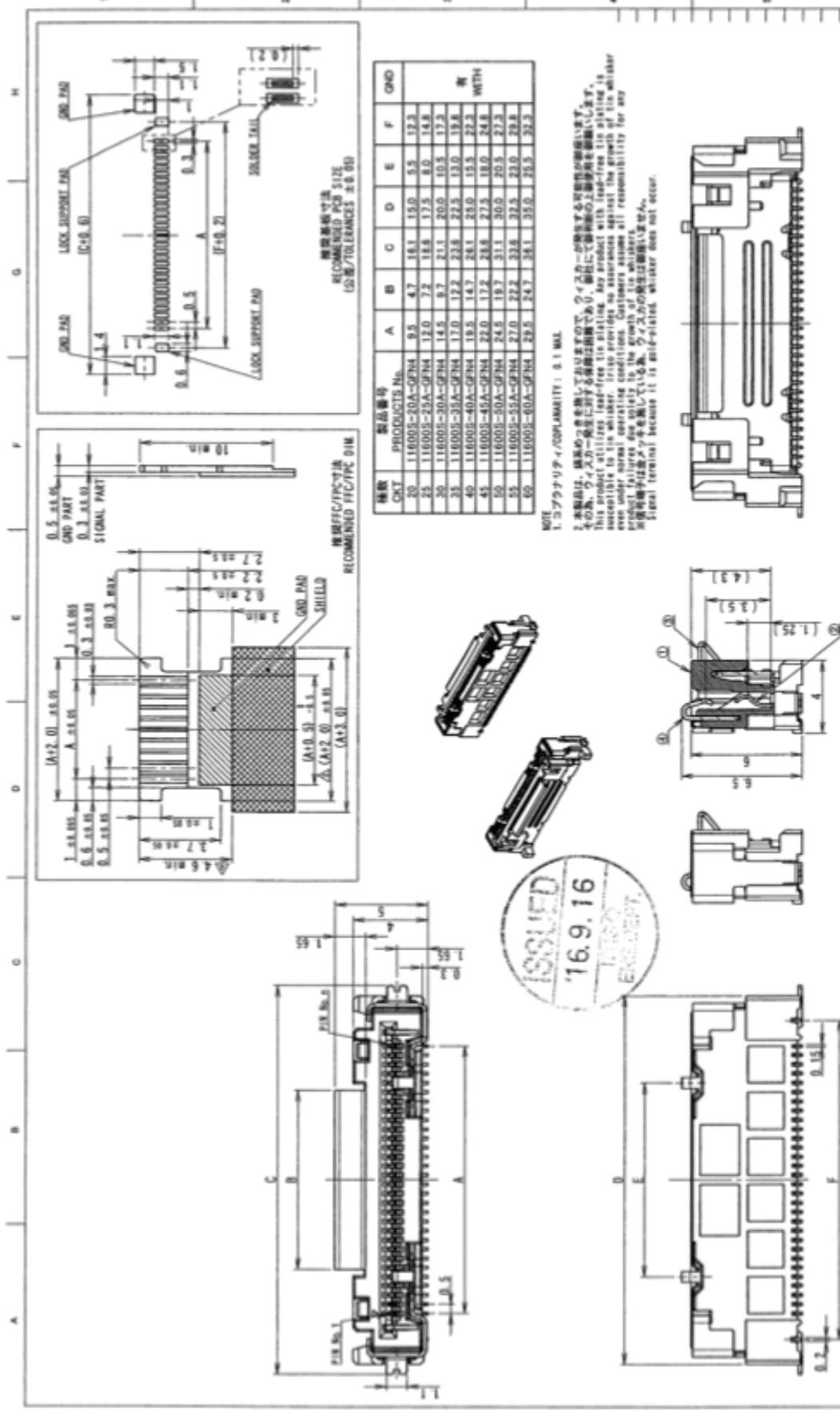
DO NOT SCALE DRAWING.  
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11501 SOCKET DRAWING



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# 11600 SOCKET DRAWING

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# ABOUT

# IRISO ELECTRONICS



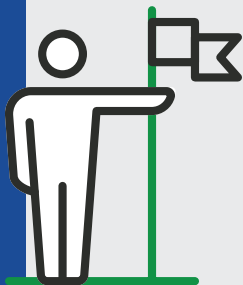
## It started with a single pin...

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.

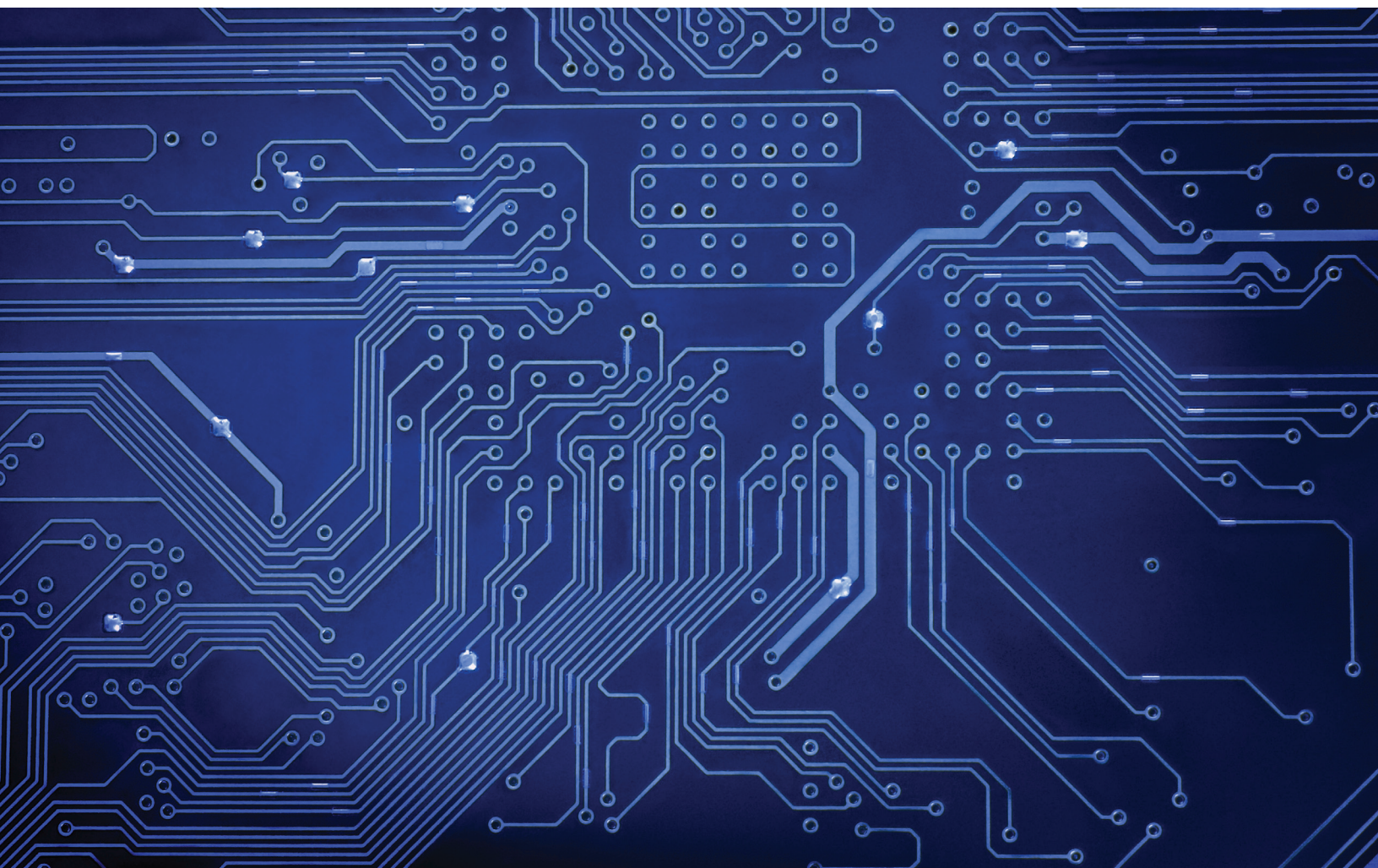


## As a bridge to the future...

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](http://IRISOCONNECTORS.COM)

# Connecting a Better Future.



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