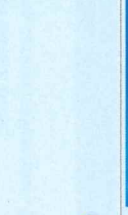
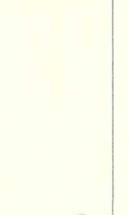


Easy Connection Tool Product List (Interface connector edition)

■ This page displays the interface connector series.
 ■ If you require assistance in selecting the appropriate product series for your application, please send us your drawings, the type of connector, and other relevant information. We can suggest an appropriate product.

☆ Because it is designed without a lock, the inspection tool can be inserted and removed **smoothly** and **repeatedly** for various interface connectors. It can be easily adopted for automation of inspections.

Types of Connectors	Number of pins	Standard specifications	Recommended for the following applications	Application Examples
For HDMI connector Standard (A) type KN-HDM KN-HDM-D	19 pins	● Maximum rated current: 0.5 A ● Maximum rated voltage: 40V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on TVs, monitors, Blu-ray players and PCs	See P52  
For HDMI connector mini (C) type KN-HDM-MN		● Maximum rated current: 0.5 A ● Maximum rated voltage: 40V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on digital cameras and compact monitors	See P53  
For Micro HDMI connector micro (D) type KN-HDM-MC		● Maximum rated current: 0.3 A ● Maximum rated voltage: 40V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on smartphones and tablet devices	See P53  
For USB 3.1 connector Type-C KN-USM-C	22 pins	● Maximum rated current: 1.25 A (1 terminal equals) ● Maximum rated voltage: 50V AC ● Operating temperature range: 0 to 85°C	● connection tests of various devices such as smart phones, tablets and laptops etc	See P55  
For USB 3.0 connector SuperSpeed(A) type KN-USM-3	9 pins	● Maximum rated current: 1.8 A (Signal line is 0.25.) ● Maximum rated voltage: 30V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on PCs and peripherals supporting SuperSpeed	See P55  
For USB connector (A) type KN-USM KN-USM-D	4 pins	● Maximum rated current: 1 A ● Maximum rated voltage: 30V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on PCs and peripheral devices	See P54  
For Micro USB connector micro (AB) type KN-USM-MC KN-USM-MC-D	5 pins	● Maximum rated current: 1 A ● Maximum rated voltage: 30V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on smartphones and tablet devices	See P55  
For Display Port Connector KN-DSP	20 pins	● Maximum rated current: 0.5 A ● Maximum rated voltage: 40V AC ● Operating temperature range: 0 to 85°C	● For inspecting various connections on PCs and monitors	See P56  
For MINI Display Port Thunderbolt connector KN-DSP-MN		● Maximum rated current: 0.5 A ● Maximum rated voltage: 40V AC ● Operating temperature range: 0 to 85°C	● For notebook PC high-speed signal transmission	See P56  



Connector Inspection Tools

For HDMI connector

Easy Connection Tools for Interface Connectors

KN Series

In addition to our conventional Type A product, we've added Type C and Type D items to our product line.

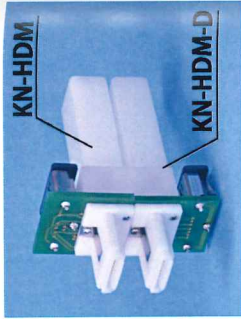


Mini Type C product



Micro Type D product

The KN-HDM-D bottom-mounted output connector type shown below has been added to accommodate two vertically aligned connectors

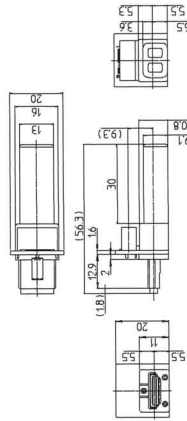
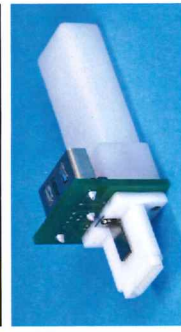


Product Overview

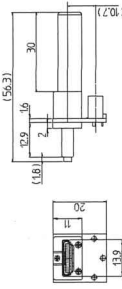
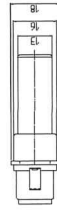
- This 19-pin interface connector for audio, video, and multimedia devices accommodates rapid and repeated connection/disconnection.
- Because it does not lock in the same way as conventional connectors, connection/disconnection is very easy. (Press and hold.)
- Because the connector terminals cannot contact the terminal just before the connection pins are inserted into the back of the connector jig, damage is avoided and safe testing is assured.
- We also offer tools for removing dust from the jig terminals. **P57**

For type A

KN-HDM With top-mounted output connector



Inserted into the connector

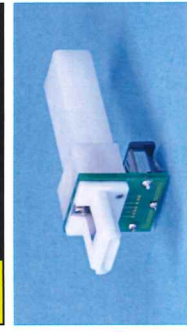


Inserted into the connector

General specifications

- Product code: KN-HDM
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C

KN-HDM-D With bottom-mounted output connector



General specifications

- Product code: KN-HDM
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C

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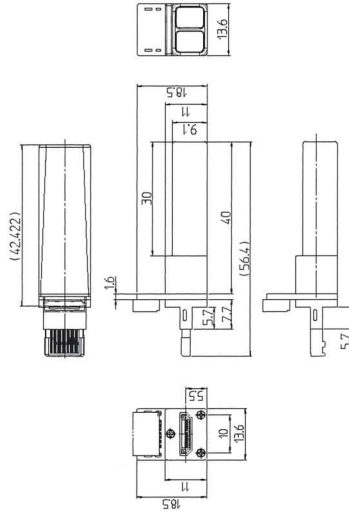
- ✔ ESD Solutions
- ✔ Cleanroom Products
- ✔ Soldering Equipment
- ✔ Test & Measurement

KN Series



For type C

KN-HDM-MN



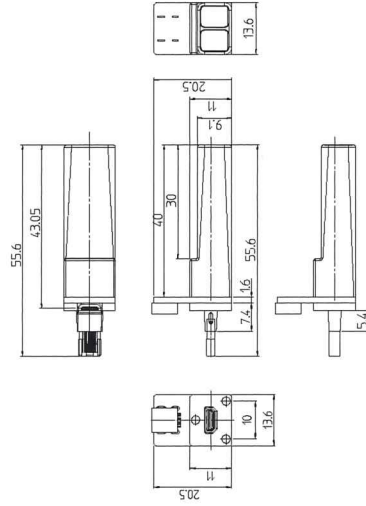
Inserted into the connector

General specifications

- Product code: KN-HDM-MN
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C

For type-D

KN-HDM-MC



Inserted into the connector

General specifications

- Product code: KN-HDM-MC
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C



Connector Inspection Tools

For USB connector

Easy Connection Tools for Interface Connectors

KN Series

In addition to our conventional 4-pin product, we've added 9-pin and micro 5-pin items to our product line



USB3.1 Type-C product

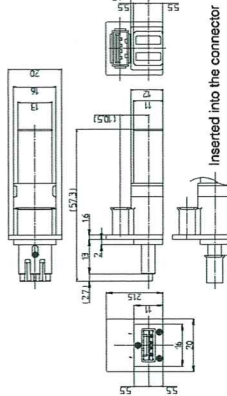
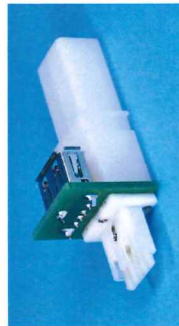
Product Overview

- This USB interface connector accommodates rapid and repeated connection/disconnection.
- Our 9-pin product incorporates an optimal circuit design to accommodate higher frequencies
- Because it does not lock in the same way as conventional connectors, connection/disconnection is very easy.
- Because the connector terminals cannot contact the terminal just before the connection pins are inserted into the back of the connector jig, damage is avoided and safe testing is assured.
- We also offer tools for removing dust from the jig terminals.

P57

For Standard-A

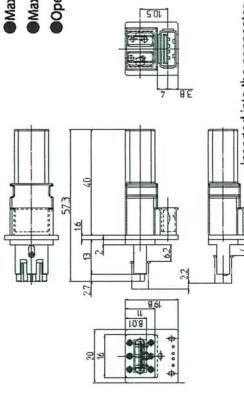
PRODUCT CORD
KN-USM
With top-mounted output connector



General specifications

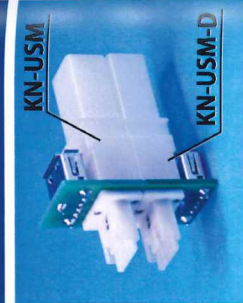
- Product code: KN-USM
- Maximum rated current: 1.0 A
- Maximum rated voltage: 30V DC
- Operating temperature range: 0-85° C

PRODUCT CORD
KN-USM-D
With bottom-mounted output connector

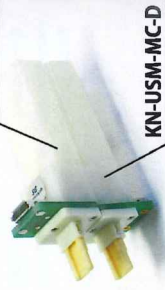


4-pins

The KN-USM-D bottom-mounted output connector type shown below has been added to accommodate two vertically aligned connectors



KN-USM-MC



KN-USM-MC-D

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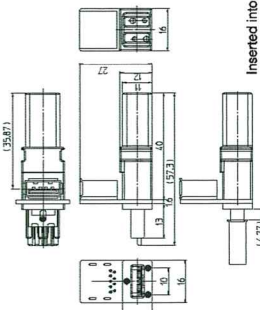
ESD Solutions
Cleanroom Products
Soldering Equipment
Test & Measurement

KN Series



For Standard-A (Super Speed)

PRODUCT CORD
KN-USM-3

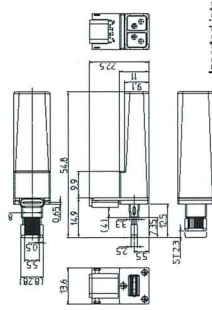


General specifications

- Product code: KN-USM-3
- Maximum rated current: 1.8 A (Signal line is 0.25A)
- Maximum rated voltage: 30V DC
- Operating temperature range: 0-85° C

For USB Type-C

PRODUCT CORD
KN-USM-C

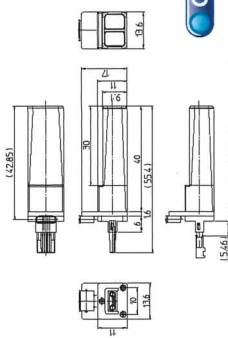
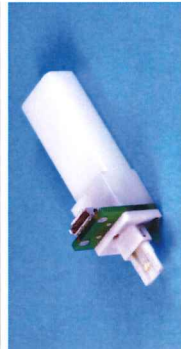


General specifications

- Product code: KN-USM-C
- Maximum rated current: 5.0 A(2pair) (Signal line is 0.25A)
- Maximum rated voltage: 5V DC
- Operating temperature range: 0-85° C

For Micro-AB

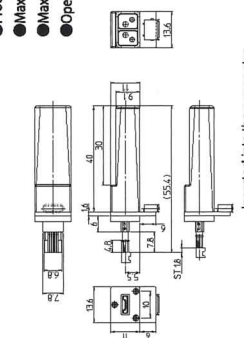
PRODUCT CORD
KN-USM-MC
With top-mounted output connector



General specifications

- Product code: KN-USM-MC
- Maximum rated current: 1.0 A
- Maximum rated voltage: 30V DC
- Operating temperature range: 0-85° C

PRODUCT CORD
KN-USM-MC-D
With bottom-mounted output connector





Connector Inspection Tools

For Display Port Thunderbolt Easy Connection Tools for Interface Connectors

KN Series

For Standard

Product Overview

- This 20-pin interface connector for video input/output between PCs and monitors accommodates rapid and repeated connection/disconnection.
- Because it does not lock in the same way as conventional connectors, connection/disconnection is very easy.
- Because the connector terminals cannot contact the terminal just before the connection pins are inserted into the back of the connector jig, damage is avoided and safe testing is assured.
- We also offer tools for removing dust from the Jig terminals.

KN-DSP



General specifications

- Product code: KN-DSP
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C

For Mini

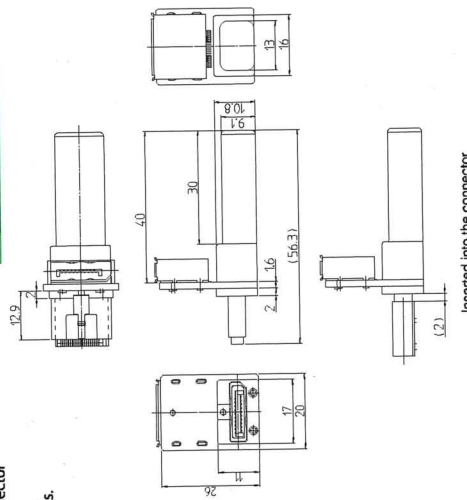
KN-DSP-MN



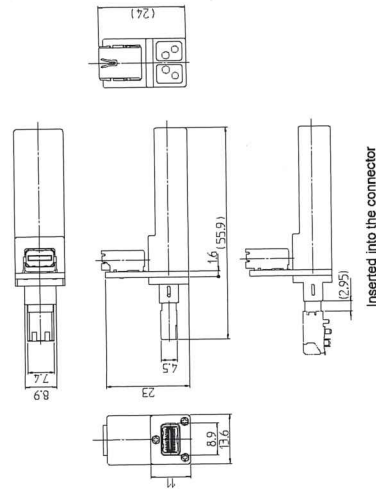
General specifications

- Product code: KN-DSP-MN
- Maximum rated current: 0.5 A
- Maximum rated voltage: 40V DC
- Operating temperature range: 0-85° C

20-pins



20-pins



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- ✓ Soldering Equipment
- ✓ Test & Measurement

KN Series



Maintenance of the Interface Easy Connection Tool

Daily maintenance



PRODUCT CORD
Applicable models
DRS-HDM
KN-HDM • KN-DSP

PRODUCT CORD
Applicable models
DRS-USM
KN-USM • KN-USM-3

PRODUCT CORD
Applicable models
DRS-HDM-MC
KN-HDM-MC

- This tool removes dust adhering to terminal contacts of Easy Connection Tools used for various interfaces.
- Simply insert this product into the applicable KN Series product. As the terminals come into contact with the adhesive in the product, any dust adhering to the terminals is removed.
- Designed to be used every 3,000 cycles, this product should be used on a regular basis. Continued use of a soiled connection tool will result in the soil becoming embedded in the terminals. Such embedded dirt cannot be removed even with this product.
- To ensure the extended service life of this product, simply wash off the adhering dirt with water and allow to naturally air dry. This revives the adhesive property and ensures this product can be reused repeatedly.

Maintenance & Replacement

Repair parts for Models KN-HDM & KN-HDM-D

PRODUCT CORD **KN-HDM-RP**

Repair parts for Models KN-HDM-MC

PRODUCT CORD **KN-HDM-MC-RP**

Repair parts for Models KN-HDM-MN

PRODUCT CORD **KN-HDM-MN-RP**

Repair parts for Models KN-USM & KN-USM-D

PRODUCT CORD **KN-USM-RP**

Repair parts for Models KN-USM-3

PRODUCT CORD **KN-USM-3-RP**

Repair parts for Models KN-USM-MC

PRODUCT CORD **KN-USM-MC-RP**

Repair parts for Models KN-DSP

PRODUCT CORD **KN-DSP-RP**

Repair parts for Models KN-DSP-MN

PRODUCT CORD **KN-DSP-MN-RP**

Protective cap for shipping
(Remove after replacing the tip.)

