NEW

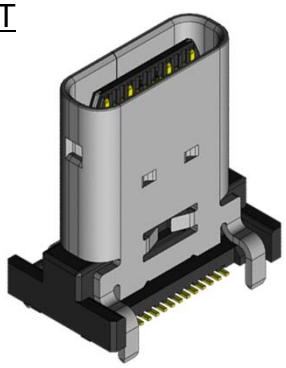
USB Type-C ™ Connector
DX07 Series Receptacle

CONNECTOR
MB-0297-4
December 2016

RoHS Compliant

2 Row SMT





Hybrid



<<Outline>>

The DX07 Series are connectors compatible with the next-generation USB specification "USB Type-C™" and they are expected to become popular as a standard interface for various devices.

Note) USB Type-C™ is a trademark of USB Implementers Forum, Inc.

Features

- ■Compatible with Universal Serial Bus Type-C Specification Release 1.1
- ■Compatible with 10Gbps SuperSpeed communication. (USB 3.1 Gen 2)
- ■Compatible with USB Power Delivery.
- ■Reversible plug makes it possible to insert both ways.
- ■Superior EMI / EMC characteristics.
- ■Design for high mechanical strength.
- ■Lock structure with high durability.
- ■Contact mounting area is available in 2 types: space saving 2 row SMT type and hybrid type with superior solder reworkability.
- ■Available in on-board type, and mid-mount type.

Applicable Markets

Smartphones, tablets, PCs, high-definition camcorders, digital still cameras (single-lens reflex, compact), and others

General Specifications

- ■No. of Contacts: 24 pos.
- ■Contact Resistance: 40mΩmax.(initial)
- ■Dielectric Withstanding Voltage: 100Vrms / 1 minute
- ■Insulation Resistance: 100M Ω (initial)
- ■Rated Current: Terminal No. A1, A4, A9, A12, B1, B4, B5, B9, B12 are DC 1.25A (maximum), Others are DC 0.25A
- ■Rated Voltage: 20 Vrms
- ■Mating Cycles: 10,000 times
- ■Operating Temperature: -30 Deg. C to 80 Deg. C

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Materials and Finishes

	2 Row SMT Type	Hybrid Type
Components	Materials / Finishes	
Insulator 1, 2	Synthetic resin	
Contact A, B	Copper alloy / Contact area: Au flash over Palladium Ni over Ni plating Terminal area: Au flash over Ni plating	
Shell	Stainless steel / Ni plating	Stainless steel / Black Ni plating
Mid Plate	Stainless steel / Ni plating	
Ground Plate	Stainless steel / Ni plating	
Rear Shield	Stainless steel / Ni plating	
Bracket	-	Stainless steel / Ni plating

Note) Please refer to the product drawings for more details.

Ordering Information

[Receptacle Side]

DX07 S 0 24 J J 2 R**

- DX07: Series — DX07: USB Type C
- S: On-board, B: Mid-mount
- 0: Modification Code #1
- 24: No. of Contacts: 24 pos.
- J: Board Connection Type — J: 2 row SMT horizontal; X: Hybrid (T/H & SMT); W: 2 row SMT vertical
- J: Plating Specification — J: Contact area: Au flash over Palladium Ni over Ni plating
- 2: Modification Code #2
- R****: Reeled pcs. / reel

Part Number	SJ Drawing	Specifications	Board Connection Type	Connector Orientation	Mounting Type	Note
DX07S024JJ2 (Individual Connector)	SJ115946	JACS-30353	2 row SMT	Horizontal	On-board	With Rear Shield
DX07S024JJ2R1300 (Reeled Product)	SJ11594					
DX07S024JJ3 (Individual Connector)	SJ115994					Without Rear Shield
DX07S024JJ3R1300 (Reeled Product)	SJ115995					
DX07B024JJ1 (Individual Connector)	SJ115850				Mid-mount	With Rear Shield
DX07B024JJ1R1500 (Reeled Product)	SJ115851					
DX07B024JJ2 (Individual Connector)	SJ115996					Without Rear Shield
DX07B024JJ2R1500 (Reeled Product)	SJ115997					
DX07B024JJ3 (Individual Connector)	SJ117601					
DX07B024JJ3R1600 (Reeled Product)	SJ117602					
DX07S024WJ1 (Individual Connector)	SJ117219	JACS-30368		Vertical	On-board	-
DX07S024WJ1R350 (Reeled Product)	SJ117220					
DX07S024WJ3 (Individual Connector)	SJ117928					Without Ground Plate (with shell spring)
DX07S024WJ3R400 (Reeled Product)	SJ117929					
DX07S024XJ1 (Individual Connector)	SJ116123	JACS-30361	Hybrid	Horizontal	On-board	Black Ni plating Shell
DX07S024XJ1R1100 (Reeled Product)	SJ116124					
DX07B024XJ1 (Individual Connector)	SJ116121				Mid-mount	
DX07B024XJ1R1300 (Reeled Product)	SJ116122					

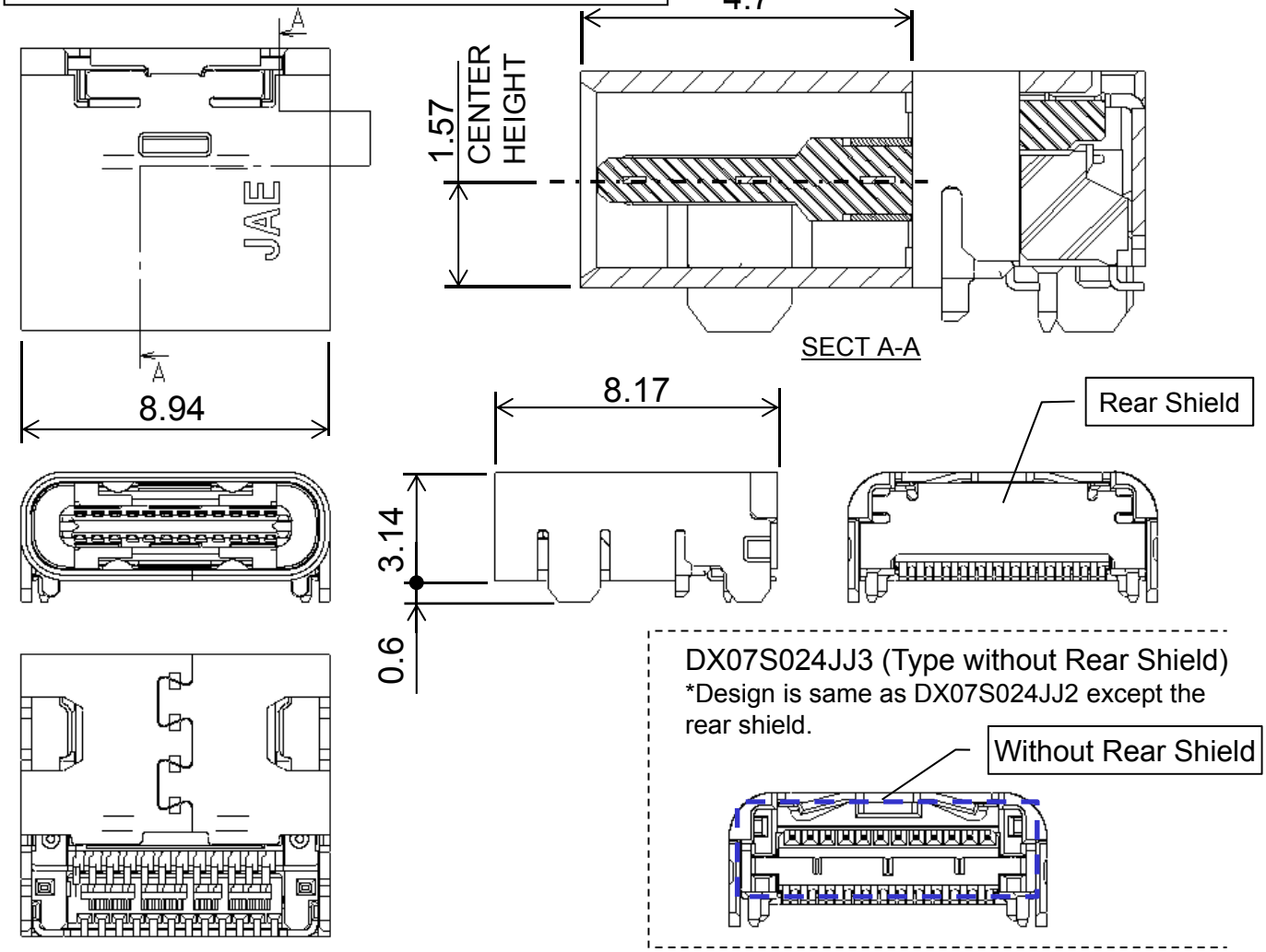
Note) Please order in reel units.

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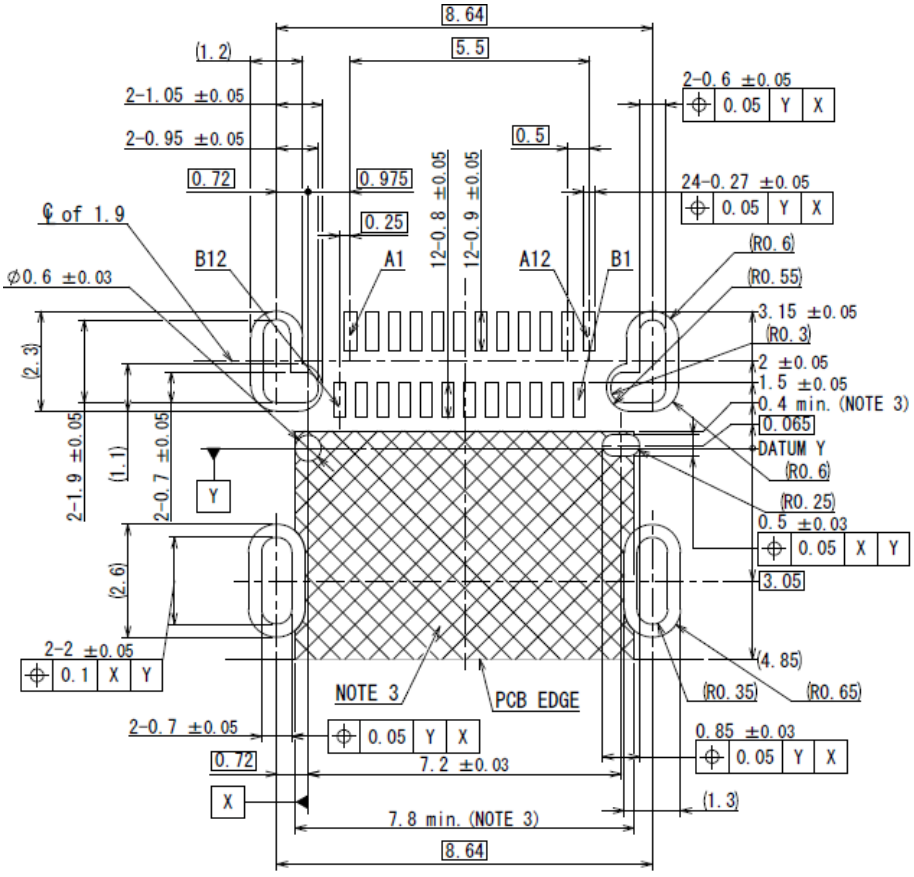
DX07S024JJ2 (Type with Rear Shield)

Unit: mm



DX07S024JJ3 (Type without Rear Shield)

*Design is same as DX07S024JJ2 except the rear shield.

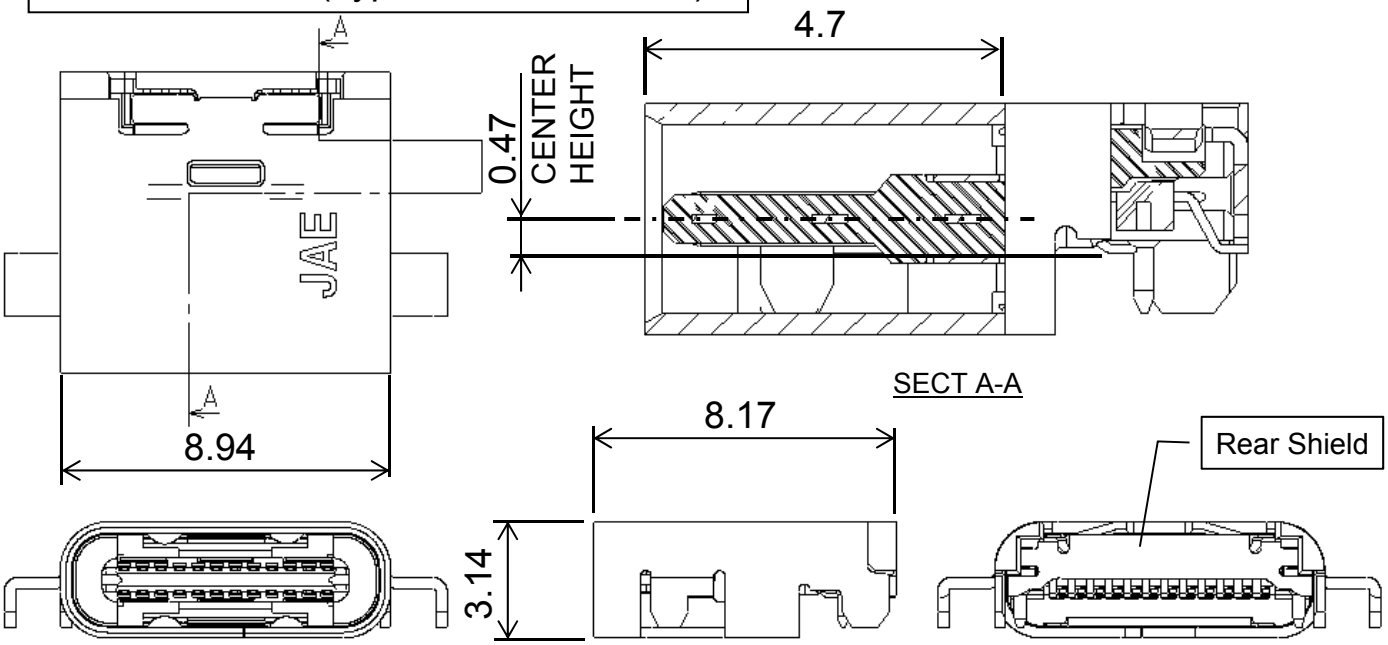


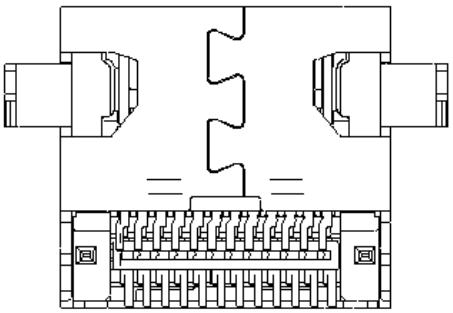
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DX07B024JJ1 (Type with Rear Shield)

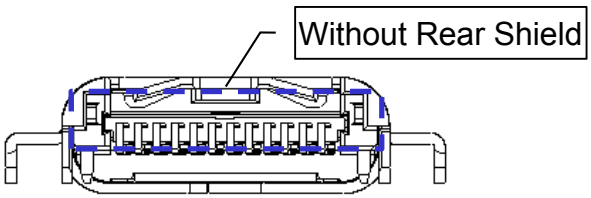
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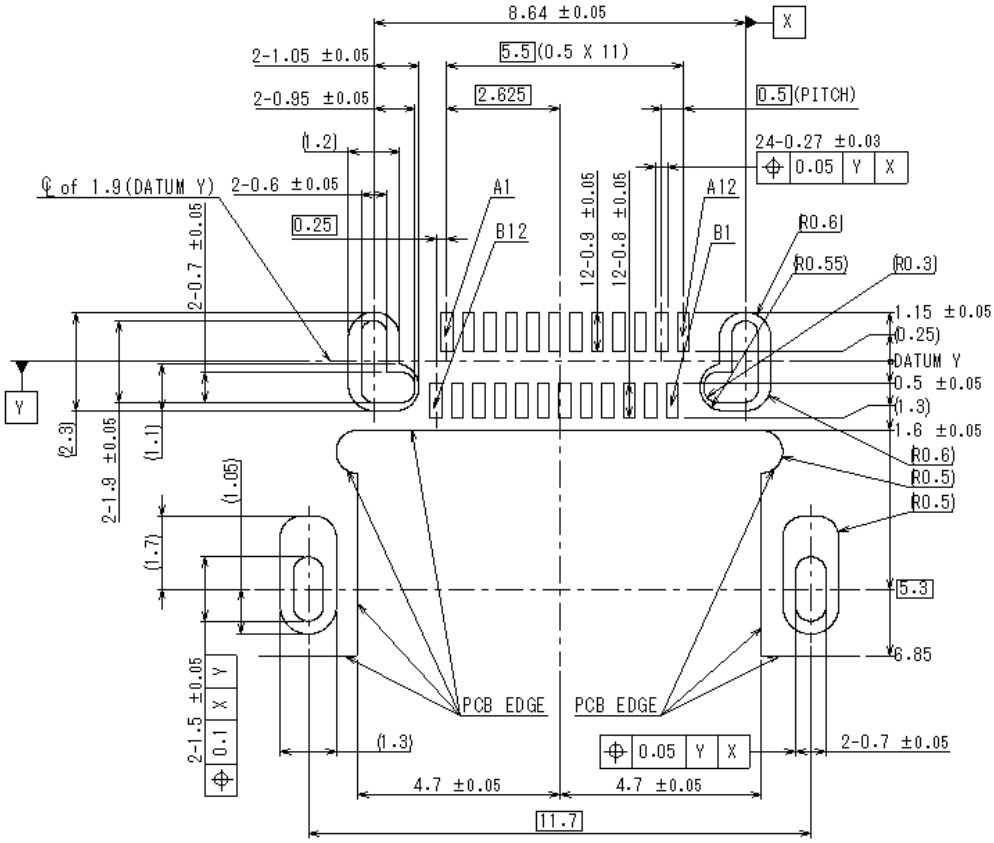




DX07B024JJ2 (Type without Rear Shield)

*Design is same as DX07B024JJ1 except the rear shield.



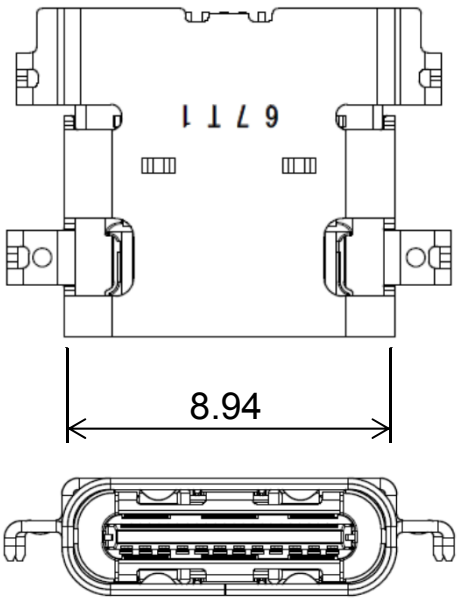


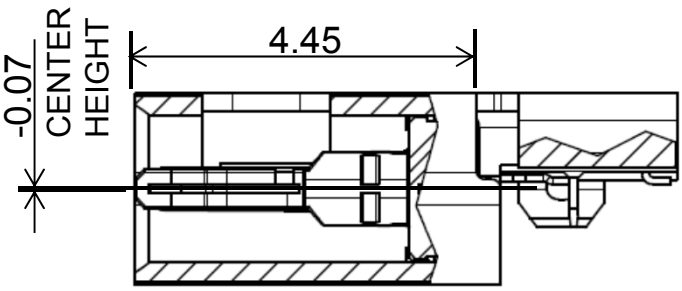
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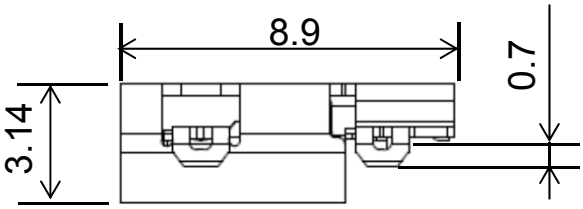
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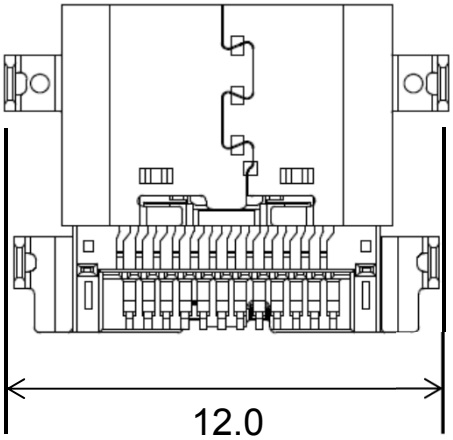
DX07B024JJ3

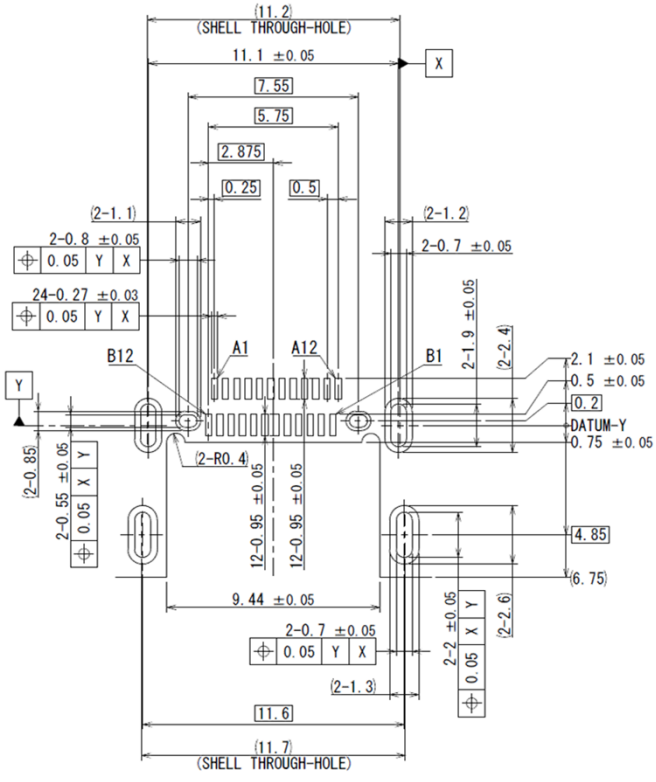
Unit: mm











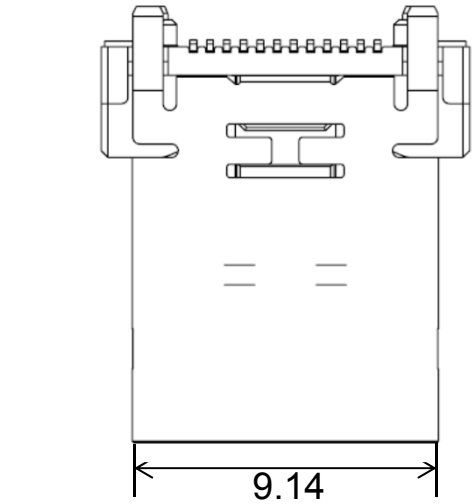
Surface View from Connector Mounting Sid
APPLICABLE P.C.B DIMENSION (REF.)

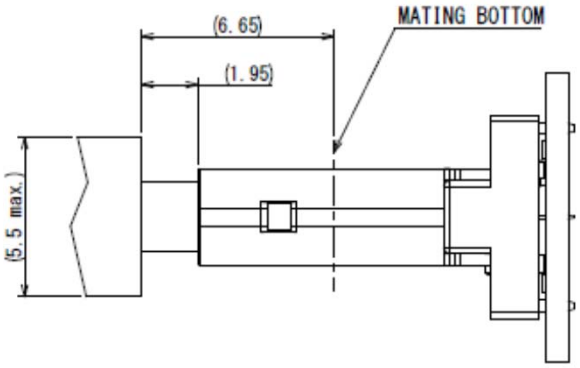
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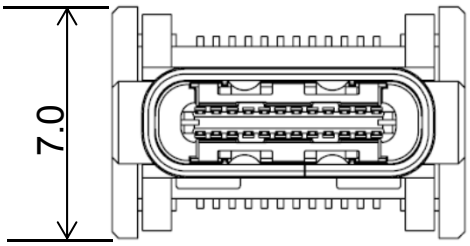
DX07S024WJ1 (Height: 12 mm Type)

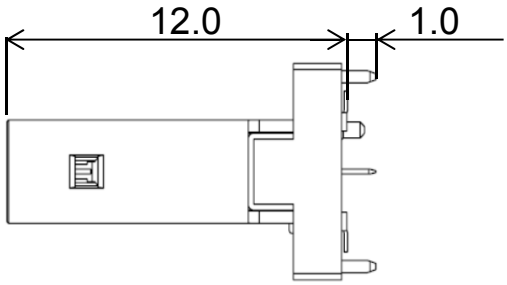
Unit: mm

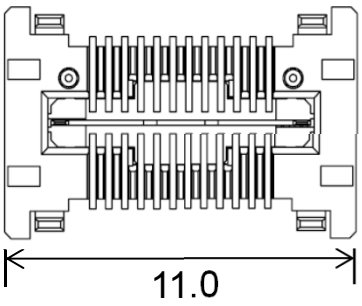


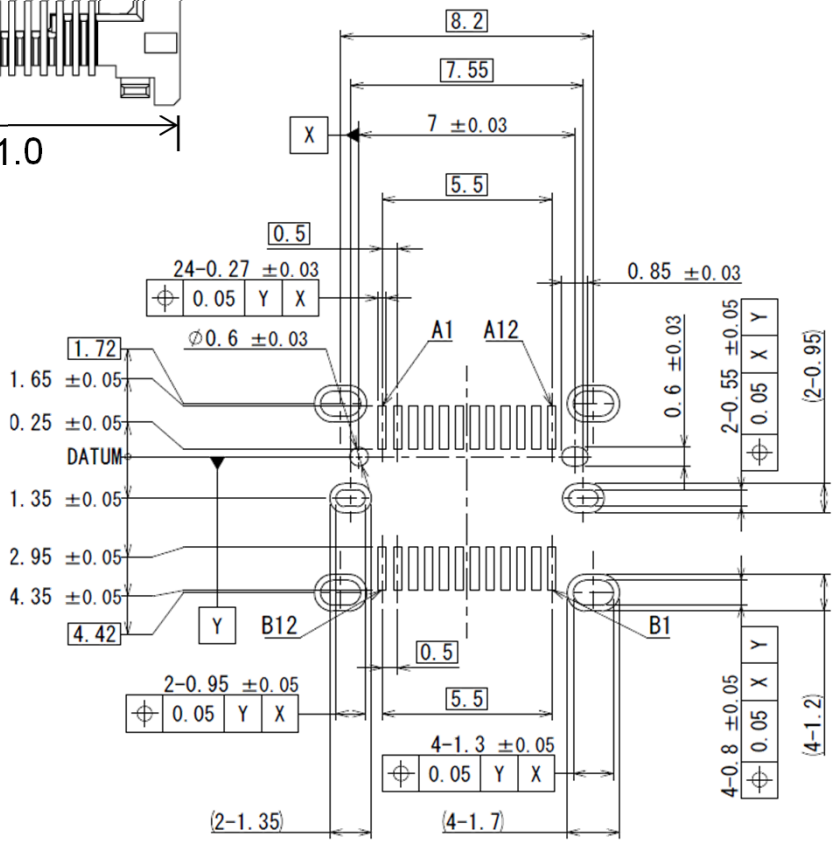


MATED CONDITION (REF.)
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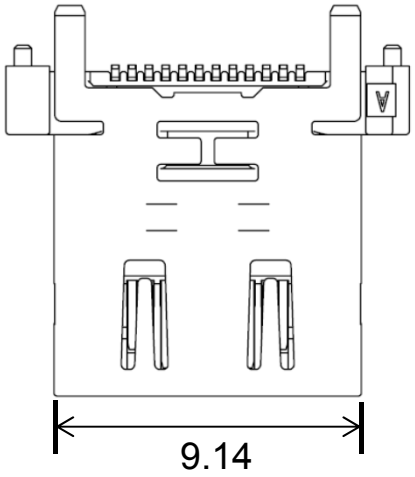
APPLICABLE P.C.B DIMENSION (REF.)
適合基板寸法 (参考)

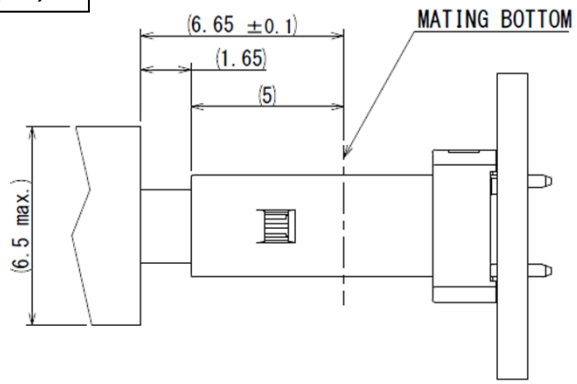
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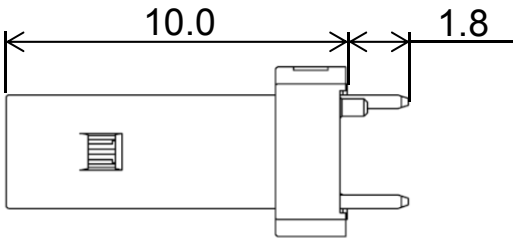
DX07S024WJ3 (Height: 10 mm Type)

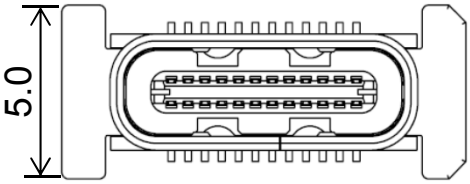
Unit: mm

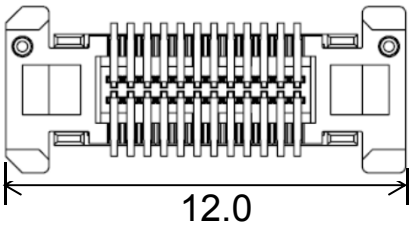


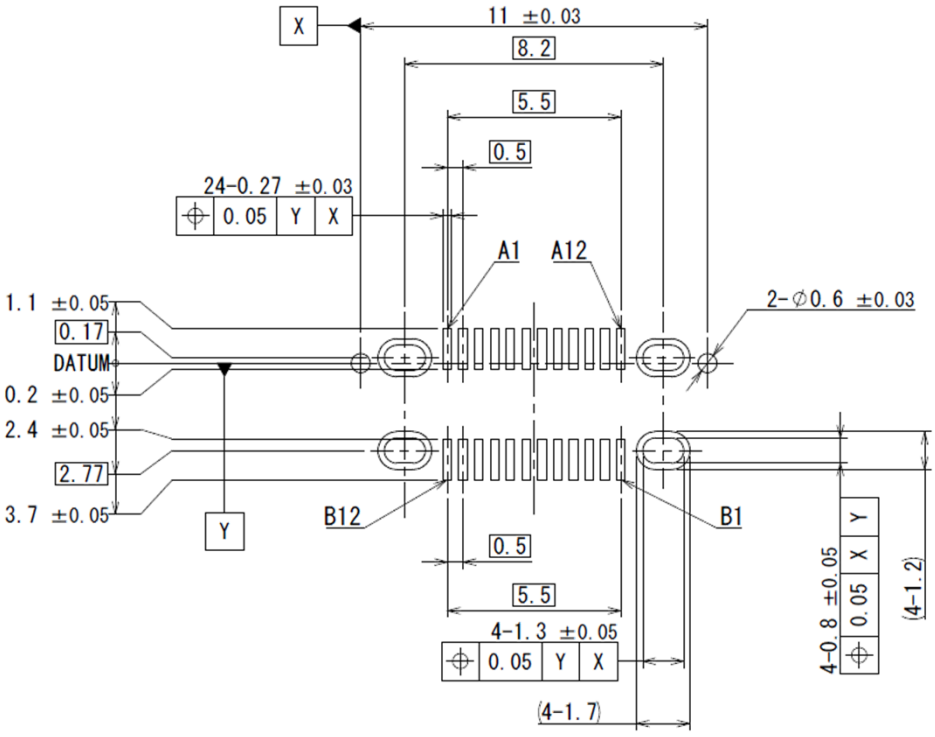


MATED CONDITION (REF.)
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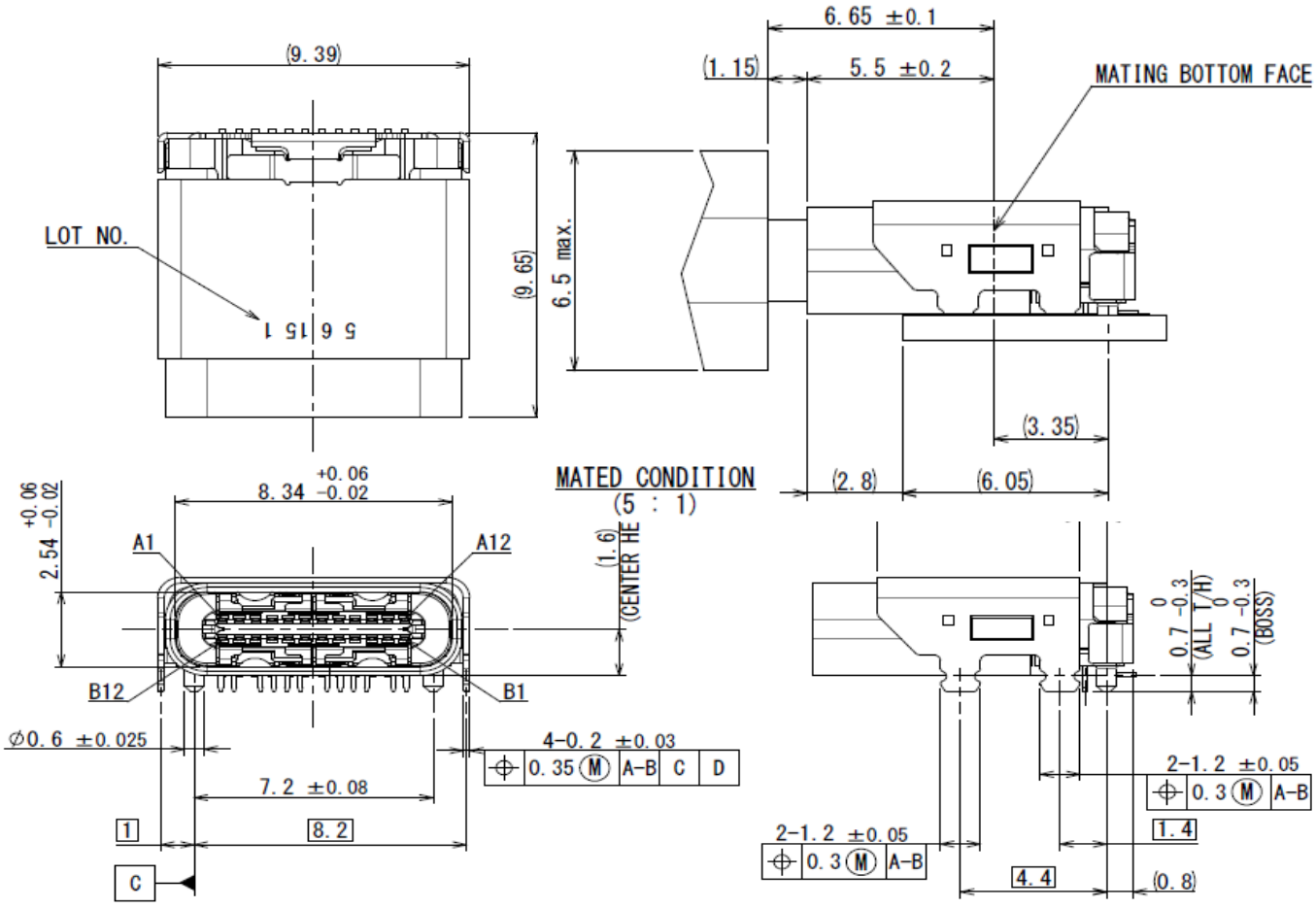
SURFACE VIEW FROM CONNECTOR MOUNTING SIDE.
APPLICABLE P.C.B DIMENSION (REF.)
適合基板寸法 (参考)

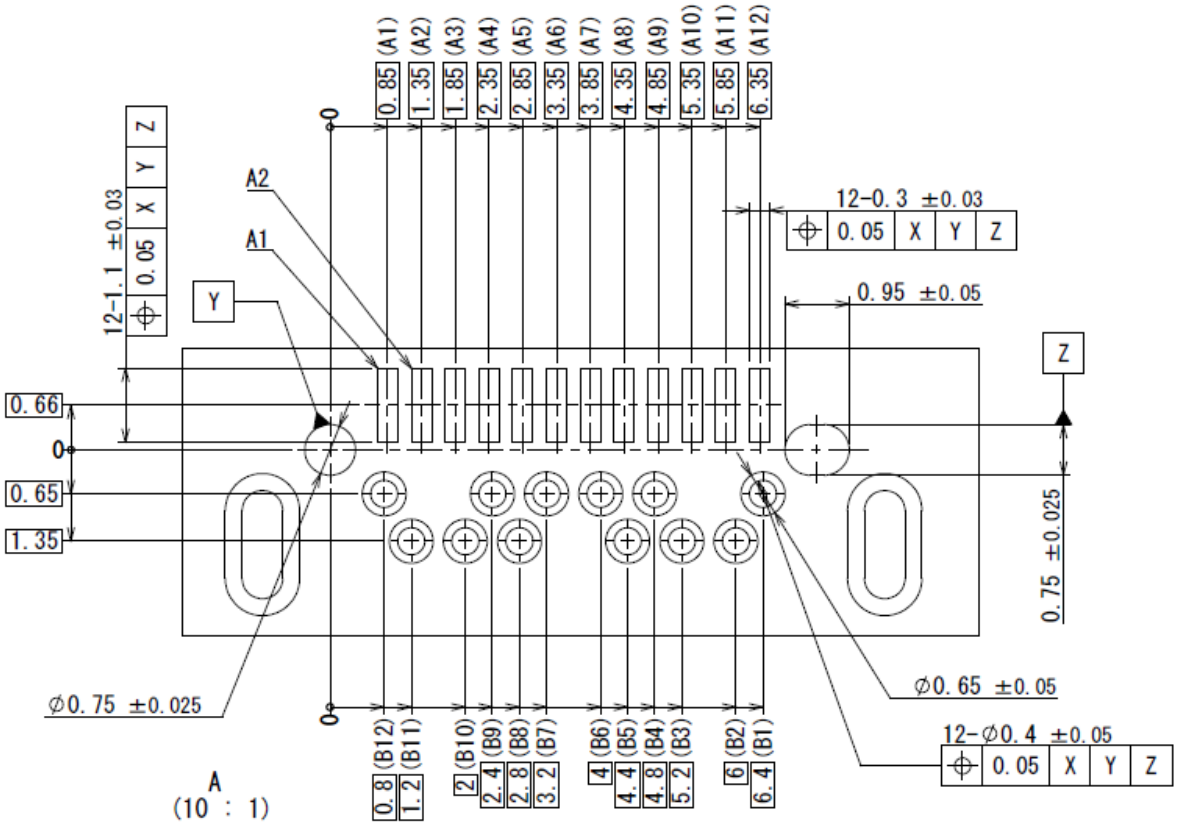
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DX07S024XJ1 (On-board Type)

Unit: mm



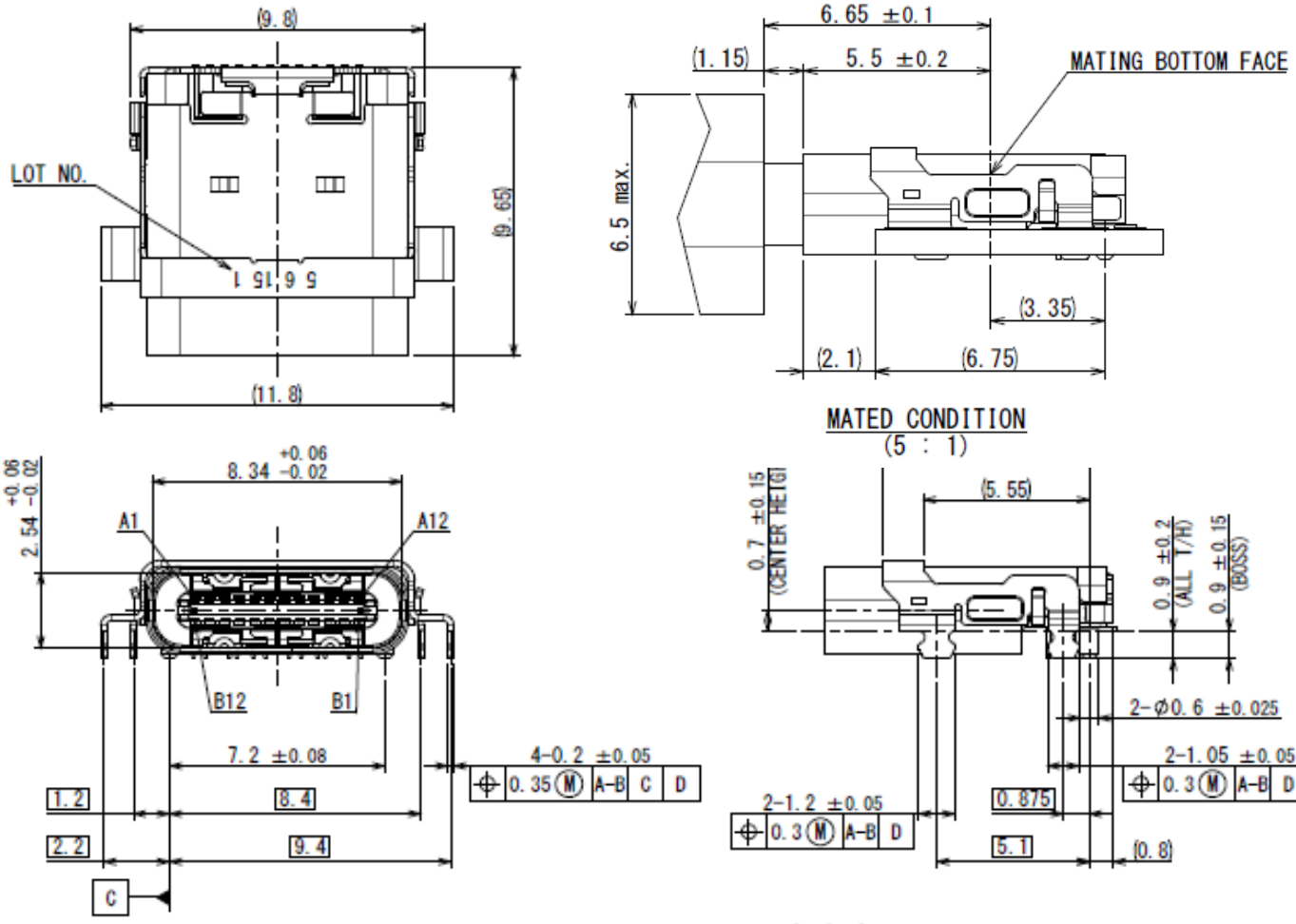


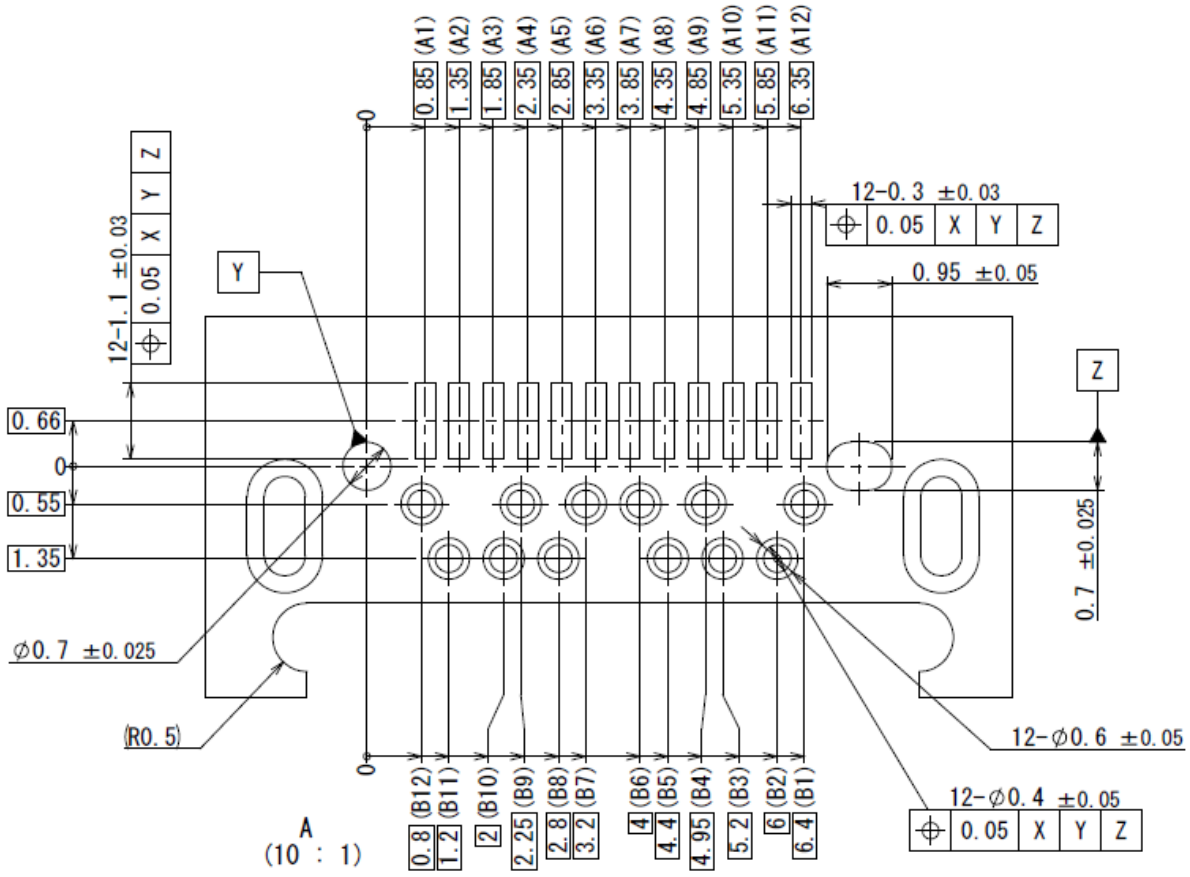
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DX07B024XJ1 (Mid-mount Type)

Unit: mm





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1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.
For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below.
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:
(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
(ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited
Product Marketing Division
Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
Phone: +81-3-3780-2882 FAX: +81-3-3780-2946

* The specifications in this brochure are subject to change without notice. Please contact JAE for information.

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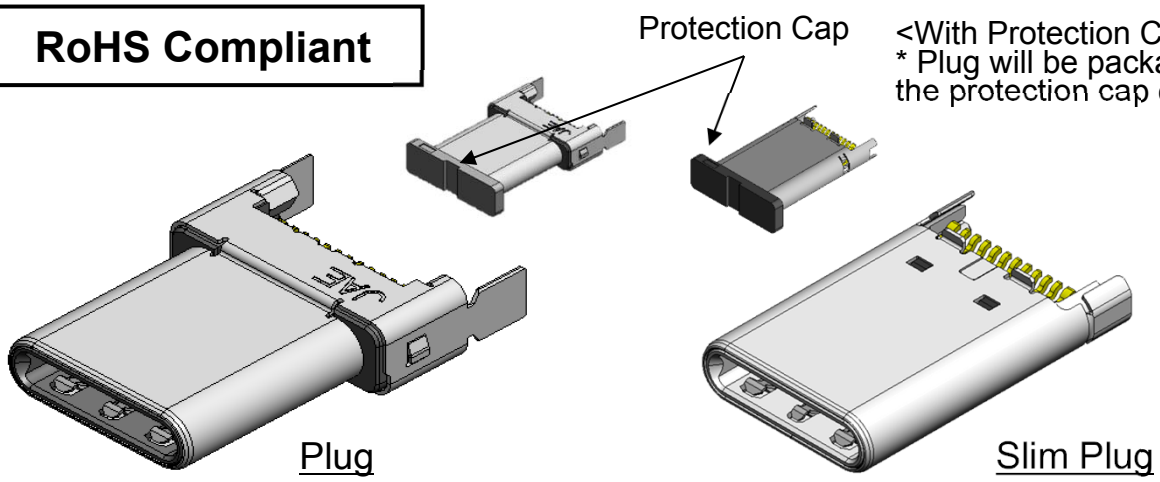
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NEW

USB Type-C™ Connector
DX07 Series Plug

CONNECTOR
MB-0301-3
October 2017

RoHS Compliant



<<Outline>>

The DX07 Series connectors are compatible with the next-generation USB specification "USB Type-C™" and are expected to become popular as a standard interface for various devices.

Note) USB Type-C™ is a trademark of USB Implementers Forum, Inc.

Features

- ■Compatible with Universal Serial Bus Type-C Specification Release 1.3
- ■Compatible with 10Gbps SuperSpeed Plus communication. (USB 3.1 Gen 2)
- ■Compatible with USB Power Delivery.
- ■Reversible plug makes it possible to insert both ways.
- ■Superior EMI / EMC characteristics.
- ■Design for high mechanical strength.
- ■Superior lock structure with high durability and clear click feeling during mating.
- ■Easy to insert with a smooth "R" on the tip of the mating area of the metal outer shell.

Applicable Markets

Smartphones, tablets, PCs, high-definition camcorders, digital still cameras (single-lens reflex, compact), and others

General Specifications

- ■No. of Contacts: 24 pos.
- ■Contact Resistance: 40mΩ max.(initial)
- ■Dielectric Withstanding Voltage: 100Vrms / 1 minute
- ■Insulation Resistance: 100MΩ (initial)
- ■Rated Current: Terminal No. A1, A4, A9, A12, B1, B4, B5, B9, B12 are DC 1.25A (maximum), Others are DC 0.25A
- ■Rated Voltage: 20Vrms
- ■Mating Durability: 10,000 times
- ■Operating Temperature: -30 Deg. C to +80 Deg. C

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Materials and Finishes

Component	Material / Finish
Contact	Copper alloy / Contact area: Au flash over Palladium Ni over Ni plating Terminal area: Au flash over Ni plating
Ground Spring	Stainless steel / nickel plating
Friction Lock	Stainless steel / nickel plating
Shell	Stainless steel / nickel plating
Insulator	Heat resistant resin / Black (Halogen-free)
Inner Insulator	Heat resistant resin / Black (Halogen-free)
Insulation Tape	Polyimide
Protection Cap	Heat resistant resin / Black (Halogen-free)

Note) Please refer to the product drawings for more details.

Ordering Information

[Plug Side]

DX07 P 0 24 * J 1 R**

- DX07: Series — DX07: USB Type C
- P: Plug
- 0: Modification Code #0
- 24: No. of Contacts: 24 pos.
- *: Plug Type - M: Plug, A: Slim Plug
- J: Plating Specification — J: Contact area: Au flash over Palladium Ni over Ni plating
- 1: Modification Code
- R****: No. of pcs. per reel

Plug	Part Number	Drawing No.	Specifications
Plug	DX07P024MJ1 (Individual Connector)	SJ115803	JACS-30353
	DX07P024MJ1R1500 (Reeled Product)	SJ115804	
Slim Plug	DX07P024AJ1 (Individual Connector)	SJ116680	
	DX07P024AJ1R1500 (Reeled Product)	SJ116681	
Slim Plug Ground Spring Reinforced Product	DX07P024AJ5 (Individual Connector)	SJ118710	
	DX07P024AJ5R1500 (Reeled Product)	SJ118711	

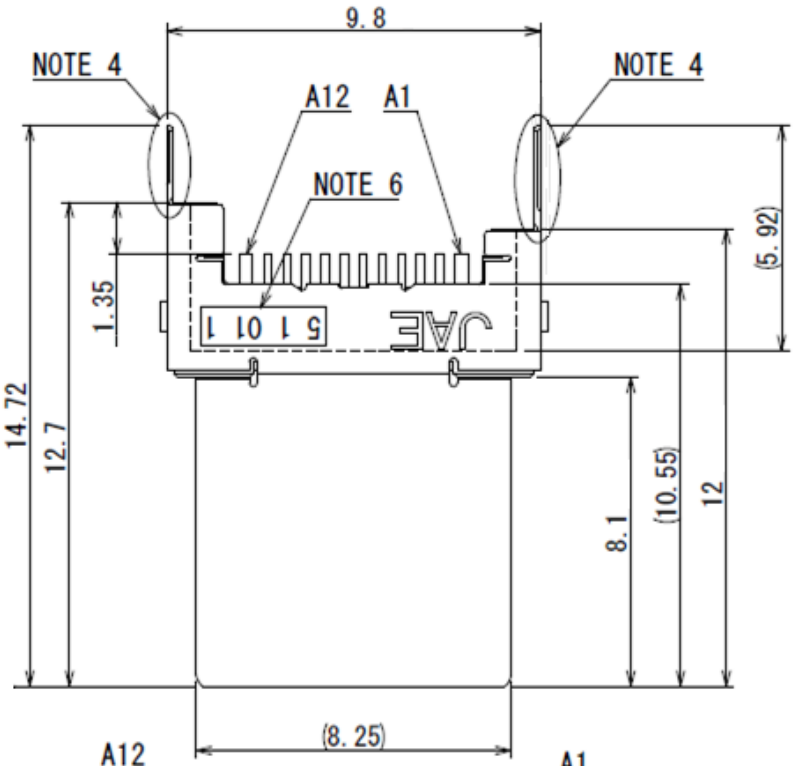
Note) Please order in reel units.

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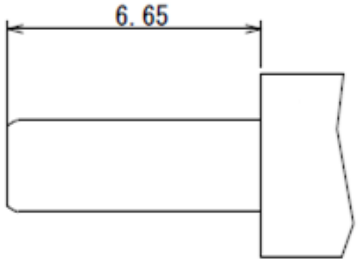
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DX07P024MJ1 (Plug)

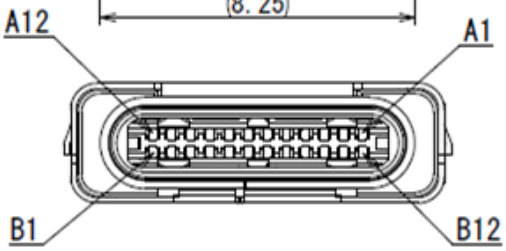
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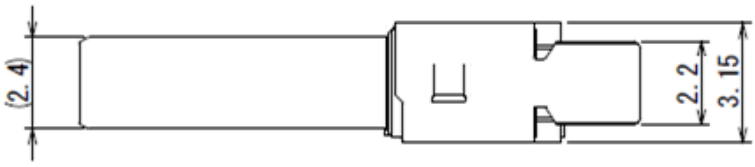


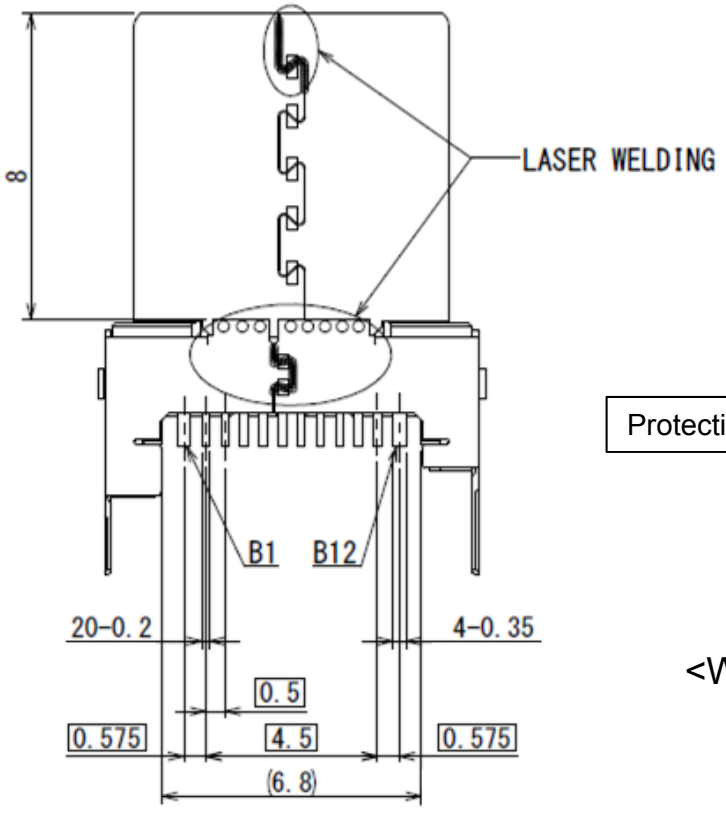
Cable Hood

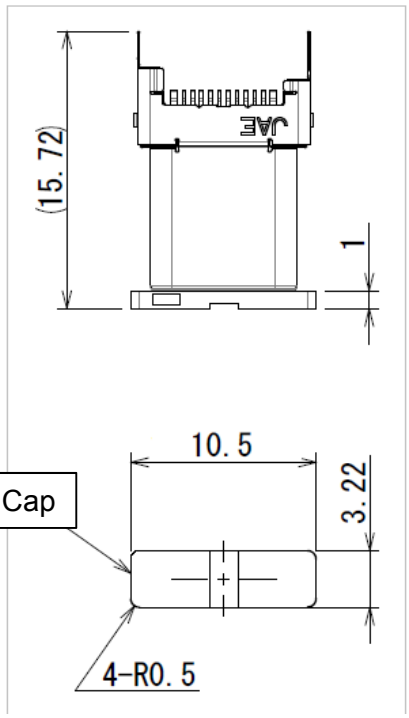


Recommended Hood Dimensions









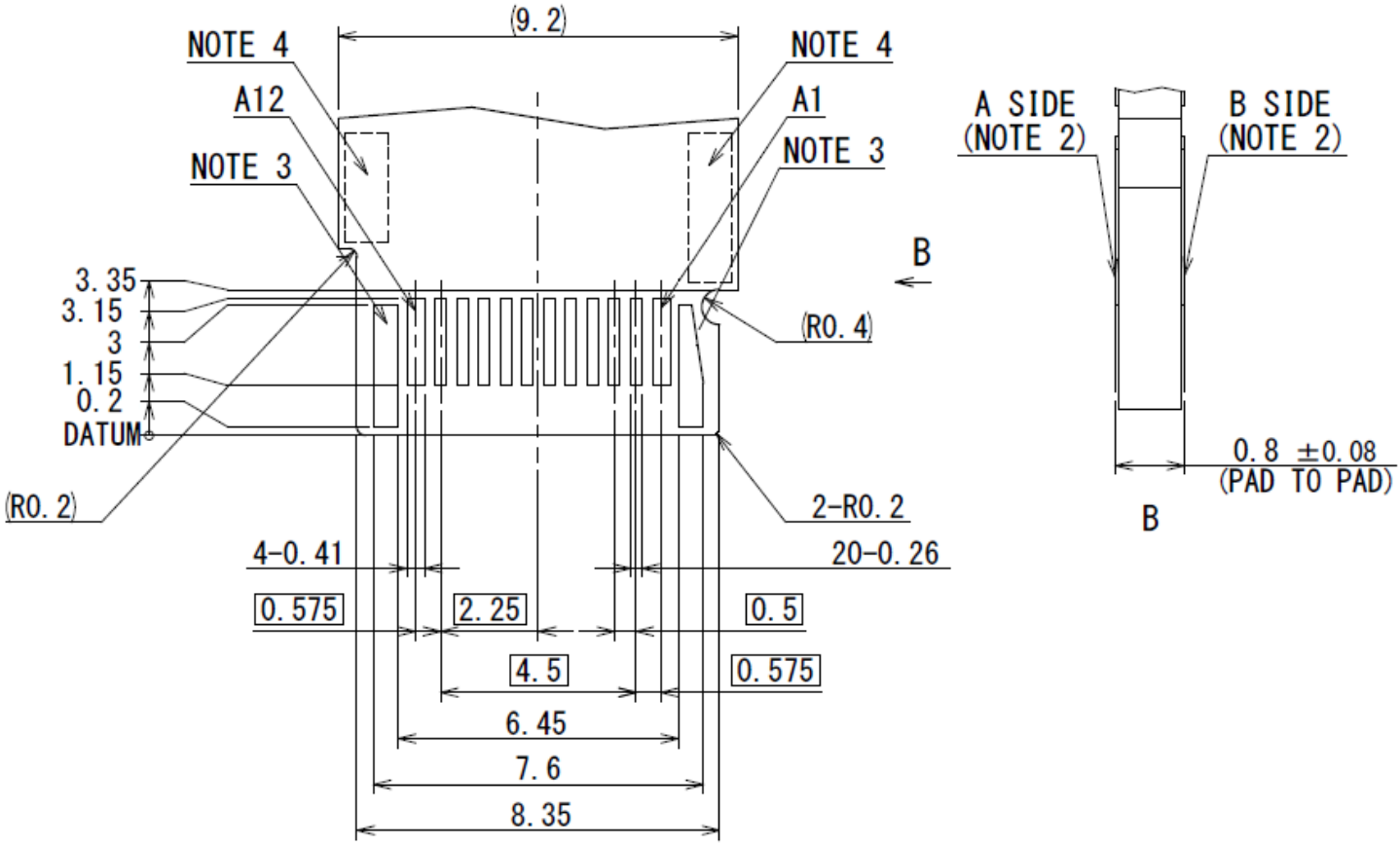
<When covered with Protection Cap>

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DX07P024MJ1 (Plug) Recommended PCB Layout

Unit: mm



NOTE 1. THERE COULD BE UNRECOGNIZABLE DIFFERENCES FROM ACTUAL PRODUCT DUE TO PROCESS CONVENIENCE BUT NOT IMPACT ON THE FUNCTION.
NOTE 2. PCB PADS CONFIGURATION BE SAME BETWEEN A SIDE AND B SIDE.
NOTE 3. THERE PADS BE WHERE A CONNECTOR HOLDS PCB. SHALL NOT BE ELECTRICAL USE NOT SOLDERED.
NOTE 4. RECOMMEND TO UTILIZE THE SIDE SHELL TABS BY SOLDERING TO PCB PADS FOR THE MECHANICAL STRENGTH.
NOTE 5. RECOMMEND TO KEEP THE CAP STAY IN PLACE UNTIL ALL THE PROCESSES DONE. THE CAP PREVENTS A CONNECTOR FROM DEFORMED AND CONTAMINATION DURING PROCESSES SUCH AS PADDLE CARD ASSEMBLY AND CABLE ASSEMBLY.
NOTE 6. LOT NUMBER IS MARKED AS INDICATED.

(EX) 5 1 01 1

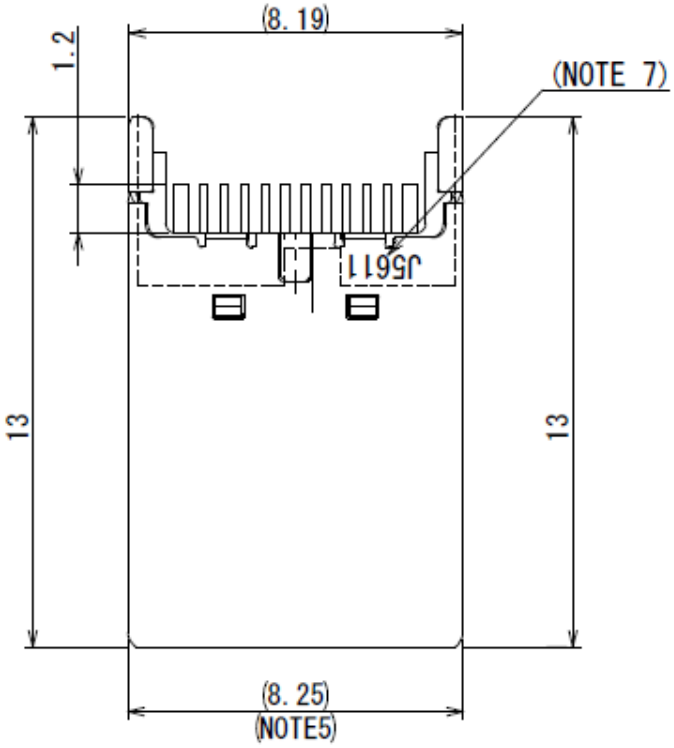
	YEAR	(END OF ONE DIGIT AT CHRISTIAN ERA)
	MONTH	(JAN. TO SEP. :1 TO 9, OCT. :O, NOV. :X, DEC. :Y)
	DAY	(TWO-DIGITS NUMBER)
	EQUIPMENT No.	(NUMBER OR ALPHABET)

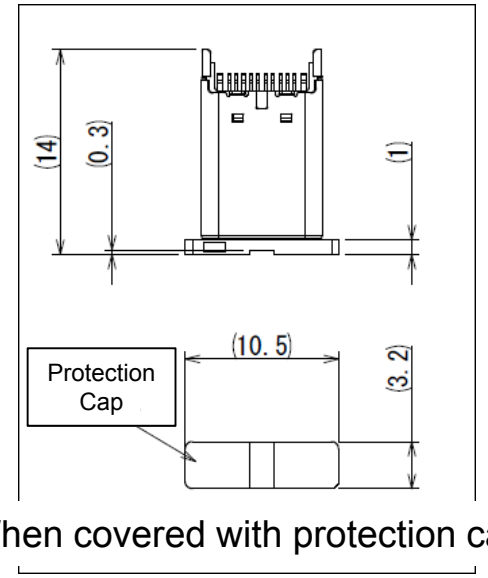
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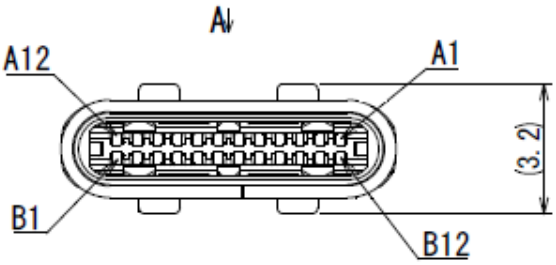
DX07P024AJ1 / AJ5 (Slim Plug)

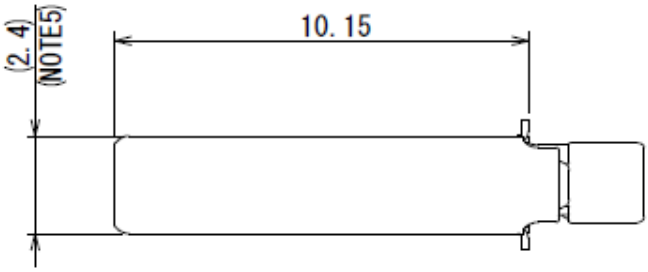
Unit: mm

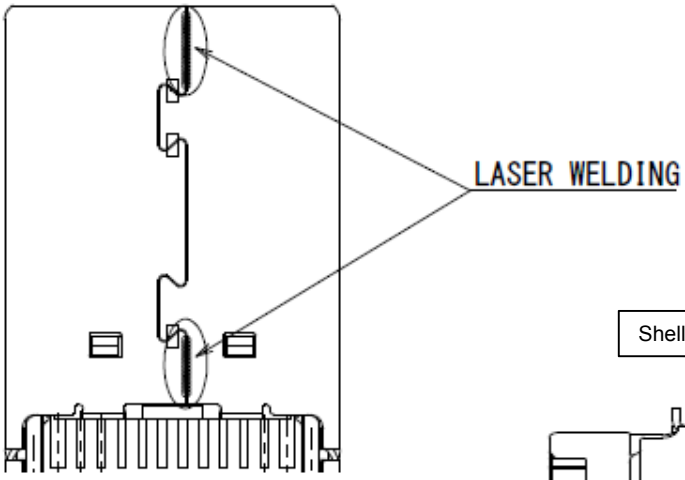


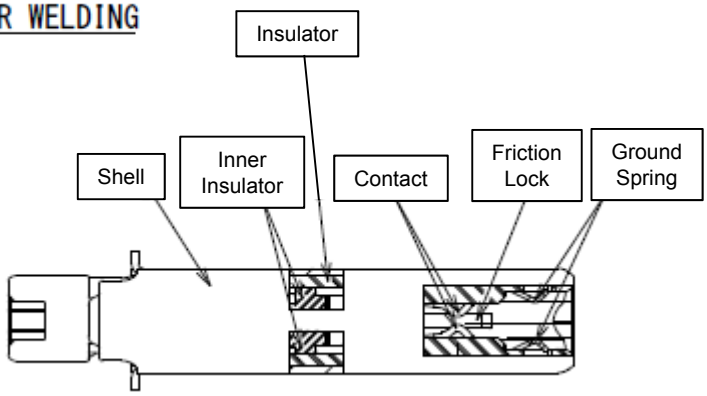


<When covered with protection cap>







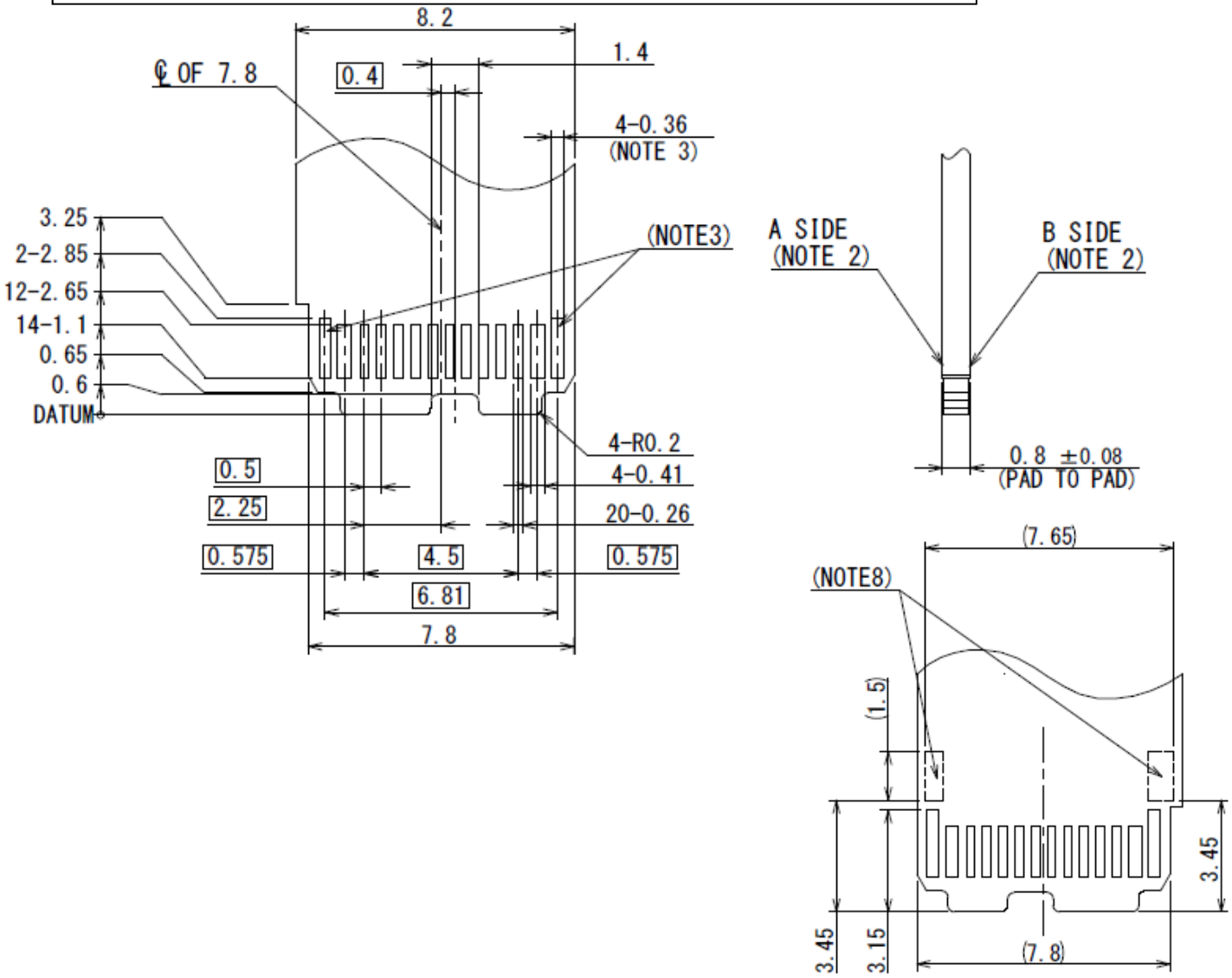


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DX07P024AJ1 / AJ5 (Slim Plug) Recommended PCB Layout

Unit: mm



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NOTE3. THERE PADS ARE USED FOR HOLDING PCB.
A SIDE PAD : SHALL NOT BE ELECTRICAL USE AND NOT BE SOLDERED.
B SIDE PAD : ELECTRICAL USE FOR GROUND. NECESSARY TO BE SOLDERED.
NOTE4. RECOMMEND TO KEEP THE CAP STAY IN PLACE UNTIL ALL THE PROCESSES DONE.
THE CAP PREVENTS A CONNECTOR FROM DEFORMED AND CONTAMINATION
DURING PROCESSES SUCH AS PADDLE CARD ASSEMBLY AND CABLE ASSEMBLY.
NOTE5. MATING DIMENSIONS CONSIST OF
"Universal Serial Bus Type-C Cable and Connector Specification"
NOTE6. PIN ASSIGNMENT(REF.)

Pin No.	A12	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2	A1
	GND	RX2+	RX2−	V_{BUS}	SBU1	D−	D+	CC	V_{BUS}	TX1−	TX1+	GND
	GND	TX2+	TX2−	V_{BUS}	V_{CONN}			SBU2	V_{BUS}	RX1−	RX1+	GND
Pin No.	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12

NOTE7. LOT NUMBER IS MARKED AS INDICATED.
【AUTOMATIC MACHINE ASSEMBLY】 : WITH LOT NUMBER
【MANUAL JIG ASSEMBLY】 : WITHOUT LOT NUMBER

(EX) J 5 6 1 1

- VENDER ID
- YEAR (END OF ONE DIGIT AT A.D.)
- MONTH (JAN. TO SEP. :1 TO 9, OCT. :O, NOV. :X, DEC. :Y)
- DAY (NUMBER OR ALPHABET)
- EQUIPMENT No. (NUMBER OR ALPHABET)

NOTE8. RECOMMEND TO UTILIZE THE SIDE SHELL TABS BY SOLDERING TO PCB PADS FOR THE MECHANICAL STRENGTH AND GND CONNECTION.

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3. The products presented in this brochure are designed for the uses recommended below.
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:
(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
(ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited
Product Marketing Division
Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
Phone: +81-3-3780-2882 FAX: +81-3-3780-2946

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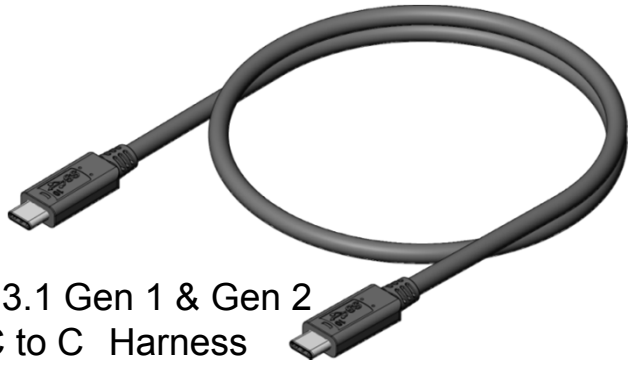
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NEW

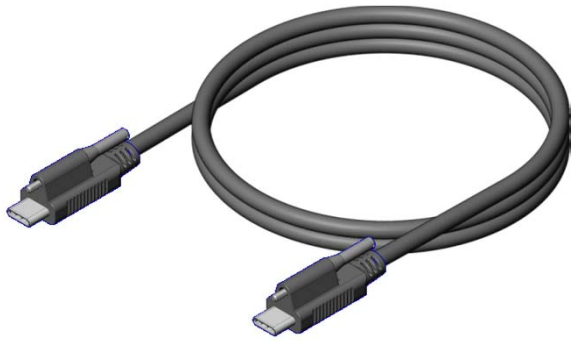
USB Type-C™ DX07 Series Harness

CONNECTOR
MB-0324-4
July 2018

RoHS Compliant



USB 3.1 Gen 1 & Gen 2
C to C Harness



USB 3.1 Gen 1 & Gen 2 C to C
Harness with Screw Lock



USB 3.1 Gen 2
C to Standard-A
Harness

<<Outline>>
The DX07 Series connectors are compatible with the next-generation USB specification "USB Type-C™" and are expected to become popular as a standard interface for various devices.
Note) USB Type-C™ is a trademark of USB Implementers Forum, Inc.

Features

- Compatible with Universal Serial Bus Type-C Specification Release 1.3
- Compatible with USB Power Delivery 3.0
- Compatible with 10Gbps SuperSpeed Plus communication (USB 3.1 Gen2)
- Supports 5A max power supply (Compatible with USB Power Delivery)
- Reversible plug structure with no need to worry about the plug orientation.
- Superior EMI / EMC characteristics.
- Lock structure with superior durability.
- Realizes downsizing of hood.
- Available with a screw lock for securely fixing to the device housing. (The screw lock attachment dimensions conform to the screw lock USB Type-C standard.)

Applicable Markets

Smartphones, tablets, notebook PCs, TV, monitor, gaming devices, external storage mediums, digital cameras, and other small portable devices and industrial equipment

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General Specifications

Connector Type	Type-C Plug on Both Ends			
Part Number	DX07518S10N 18747	DX07518S20K 18747	DX07518B10N 19114	DX07518B20K 19114
Length	1m	2m	1m	2m
Rated Current	5 A max.	3 A max.	5 A max.	3 A max.
Applicable Standards	USB 3.1 Gen 2	USB 3.1 Gen 1	USB 3.1 Gen 2	USB 3.1 Gen 1
	USB Power Delivery Rev 3.0			
Material / Color (hood, bushing, and cable jacket)	PVC / Black		TPE / Black	
USB Certification	Certified			Now Planned
TID	5,200,000,570	3,200,000,113	5,210,000,570	-
No. of Contacts for Plug	24 pos.			
Rated Voltage	AC 20 V r.m.s.			
Contact Resistance	Initial 40 mΩ max.			
Dielectric Withstanding Voltage	AC 40 V r.m.s. (for 1 minute)			
Insulation Resistance	Initial 10 MΩ min.			
Operating Temperature Range	+10ºC to +40ºC		-20ºC to +50ºC	
Mating Durability	10,000 times			

Connector Type	DX07 Cable Harness with Screw Lock	
Part Number	DX07550B10N19510	DX07550B20K19510
Length	1m	2m
Rated Current	5 A max.	5 A max.
Applicable Standards	USB 3.1 Gen 2	USB 3.1 Gen 1
	USB PD Revision 3.0	
Material / Color (hood, bushing, and cable jacket)	TPE / Black	
USB Certification	Under Planning	
TID	—	
No. of Contacts for Plug	24 pos.	
Rated Voltage	AC 20 V r.m.s.	
Contact Resistance	Initial 40 mΩ or less	
Dielectric Withstanding Voltage	AC 40 V r.m.s. (for 1 minute)	
Insulation Resistance	Initial 10 MΩ min.	
Operating Temperature Range	-20ºC to +50ºC	
Mating Durability	10,000 times	

Connector Type	Type-C Plug to USB3.1 Standard-A Plug Cable Harness	
Part Number	DX07519S10L19294	DX07519B10L18748
Length	1m	
Rated Current	3 A max.	
Applicable Standards	USB 3.1 Gen 2	
Material / Color (hood, bushing, and cable jacket)	PVC / Black	TPE / Black
USB Certification	Certified	Certified
TID	5,200,000,613	5,200,000,613
No. of Contacts for Plug	USB Type-C side: 24 pos. USB3.1 Standard-A side: 9 pos.	
Rated Voltage	AC 20 V r.m.s.	
Contact Resistance	USB Type-C side: Initial 40 mΩ max. USB3.1 Standard-A side: Initial 50 mΩ max.	
Dielectric Withstanding Voltage	AC 40 V r.m.s. (for 1 minute)	
Insulation Resistance	Initial 10 MΩ min.	
Operating Temperature Range	+10ºC to +40ºC	-20ºC to +50ºC
Mating Durability	USB Type-C side: 10,000 times (Based on USB Type-C Standard) USB3.1 Standard-A side: 1,500 times (Based on USB3.1 Standard)	

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Materials and Finishes

Component	Material and Finish
Plug	DX07P024AJ5
Paddle Guard	Multi-layer glass-epoxy board
Back Shell	Stainless steel
Locator	Glass-reinforced nylon
Accessory Parts	Heat resistant tape, adhesive, and others
Inner Mold	PA
Outer Mold	PVC Black or TPE Black
Cable Jacket	PVC Black or TPE Black
Screw	Stainless steel

Note: Please refer to the Product Drawings for further details.

Ordering Information

DX07 5 18 S 10 N ***

Series
DX07: USB Type C

5: Plug

18: USB3.1 C to C
19: USB3.1 C to A
50: USB3.1 C to C with screw lock

S: PVC Black / B: TPE Black

10: 1000mm / 20: 2000mm

N: Gen2 5A / K: Gen1 3A
L: Gen2 3A

Last 5 digits of the Drawing Number

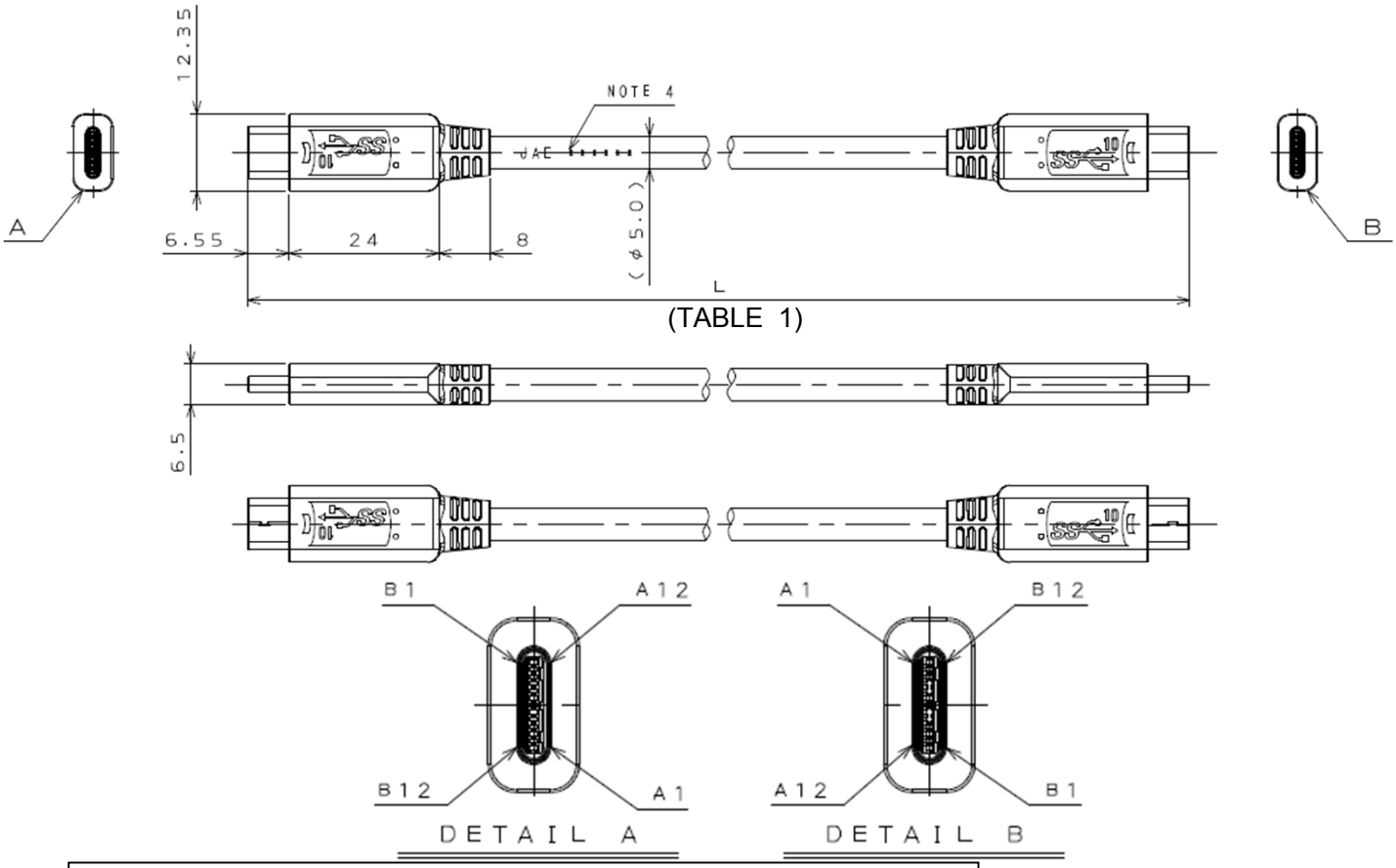
Harness Type	Part Number	Drawing No.	Specifications
USB Type-C To USB Type-C	DX07518S10N18747	SJ118747	JACS-40186
	DX07518S20K18747		
	DX07518B10N19114	SJ119114	
	DX07518B20K19114		
USB Type-C to USB Type-C (with screw lock)	DX07550B10N19510	SJ119510	
	DX07550B20K19510		
USB Type-C to USB 3.1 Standard-A	DX07519S10L19294	SJ119294	JACS-40187
	DX07519B10L18748	SJ118748	

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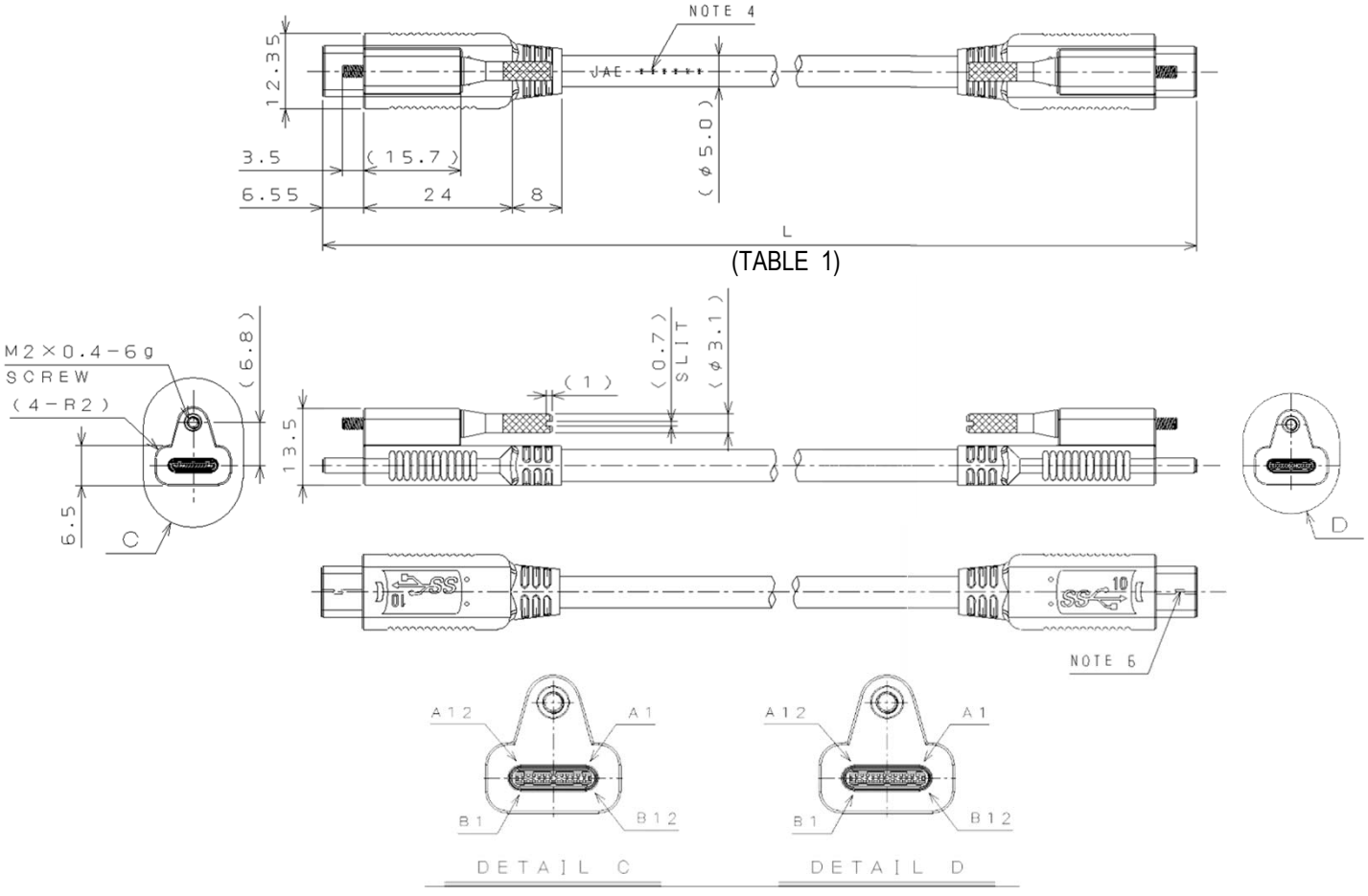
Product Drawing (Type-C to Type-C)

Unit: mm



(TABLE 1)

Product Drawing (Type-C to Type-C (with screw lock))



(TABLE 1)

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NOTE1. CIRCUIT SCHEMATIC OF PADDLE CARD IS SHOWN IN TABLE2.
2. THIS CABLE ASSEMBLY IS FOR "USB3.1 TYPE-C TO TYPE-C" SPEC and "USB Type-C Locking Connector" SPEC.
3. USB VERSION AND USB LOGO VERSION ARE SHOWN IN TABLE1.
4. LOT NUMBER IS MARKED BETWEEN EACH OUTER MOLD.
5. 100% OPEN, SHORT & MIS-WIRE TEST.
6. DIRECTION OF SHELL JOINT IS OPTIONAL.
7. RECOMMENDED SCREW TIGHTENING TORQUE:0.2～0.25N·m.
(APPLY TO THE CABLE WITH SCREW LOCK)

LOT No.
6T 7 9 07
DAY
MONTH(Oct.:0, Nov.:X, Dec.:Y)
YEAR
PRODUCTION AREA

TABLE 1

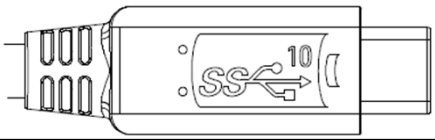
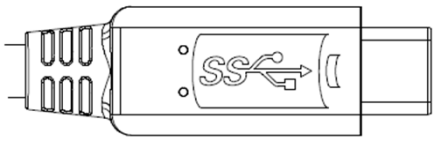
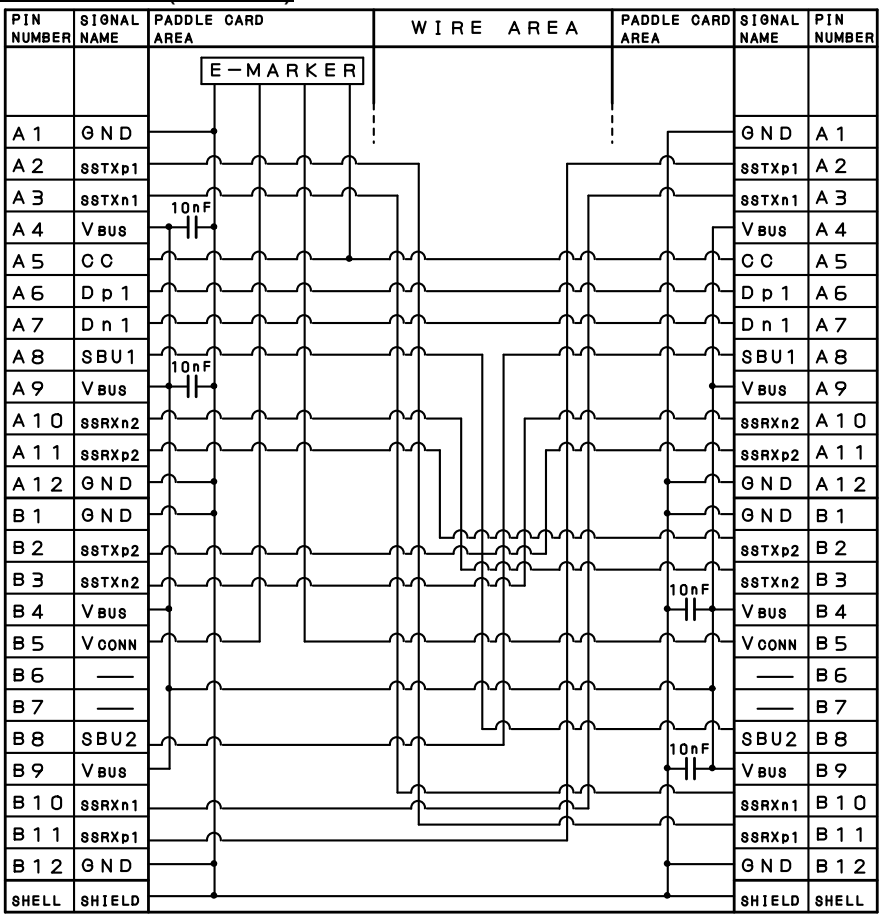
Part Number	L	USB Version	USB Logo
DX07518S10N18747	1000	USB 3.1 Gen 2	
DX07518B10N19114			
DX07550B10N19510			
DX07518S20K18747	2000	USB 3.1 Gen 1	
DX07518B20K19114			
DX07550B20K19510			

TABLE 2 (NOTE1)

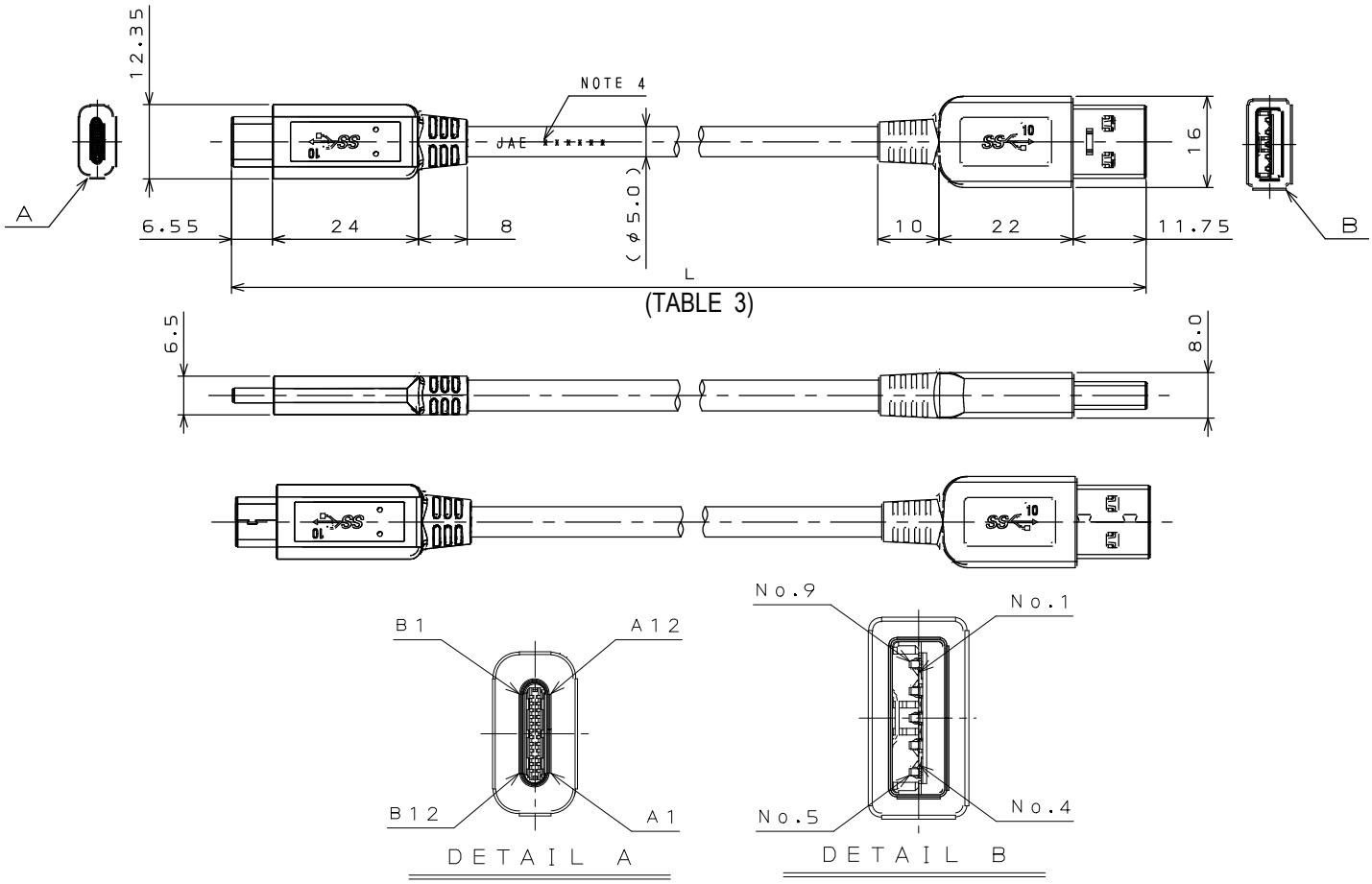


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Product Drawing (Type-C to Standard-A)

Unit: mm



NOTE1. CIRCUIT SCHEMATIC OF PADDLE CARD IS SHOWN IN TABLE4.
2. THIS CABLE ASSEMBLY IS FOR "USB3.1 TYPE-C TO STANDARD-A" SPEC.
3. USB VERSION AND USB LOGO VERSION ARE SHOWN IN TABLE3.
4. LOT NUMBER IS MARKED BETWEEN EACH OUTER MOLD.
5. 100% OPEN, SHORT & MIS-WIRE TEST.

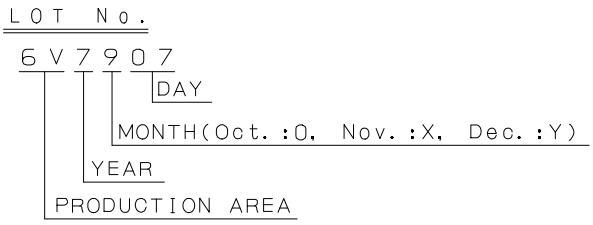
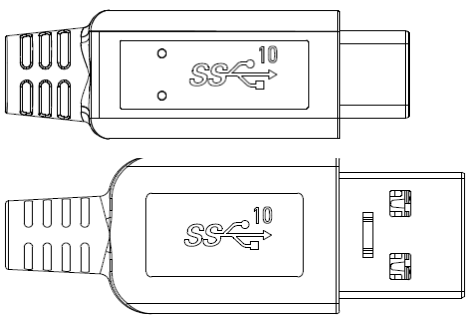
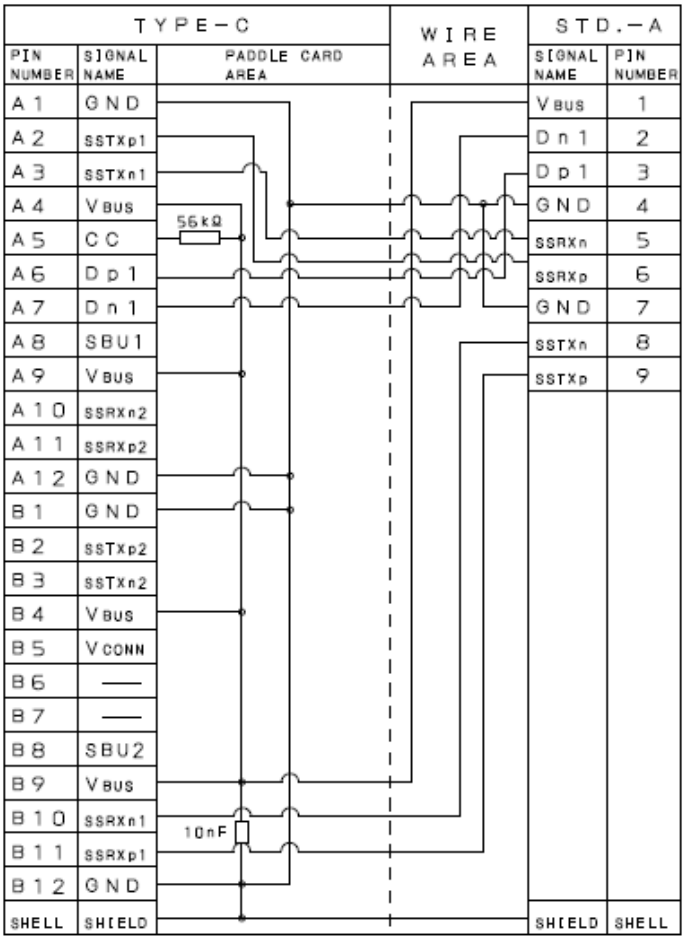


TABLE 3

Part Number	L	USB Version	USB Logo
DX07519S10L19294	1000	USB 3.1 Gen 2	
DX07519B10L18748			

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TABLE 4 (NOTE1)



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