

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

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					
Applicable Standards	USB Power Delivery Rev 3.0								
Material / Color (hood, bushing, and cable jacket)	PVC	/ Black	TPE /	TPE / Black					
USB Certification		Certified	Now Planne						
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			MΩ min.						
Operating Temperature Range	+10°C	o +50°C							
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					
Applicable Standards	USB PD Re	evision 3.0					
Material / Color	TDE /	Black					
(hood, bushing, and cable jacket)	TPE / Black						
USB Certification	Under Planning						
TID	<u> </u>						
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	-20°C to +50°C						
Mating Durability	10,000 times						

Connector Type	Type-C Plug to USB3.1 Standard-A Plug Cable Harness						
Part Number	DX07519S10L19294	DX07519B10L18748					
Length	1r	n					
Rated Current	3 A n	nax.					
Applicable Standards	USB 3.1	Gen 2					
Material / Color	PVC / Black	TPE / Black					
(hood, bushing, and cable jacket)							
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 m Ω max.						
Dielectric Withstanding Voltage	AC 40 V r.m.s. (for 1 minute)						
Insulation Resistance	Initial 10	MΩ min.					
Operating Temperature Range	+10°C to +40°C	-20°C to +50°C					
Mating Dunchility	USB Type-C side: 10,000 times (Based on USB Type-C Standard)						
Mating Durability	USB3.1 Standard-A side: 1,500 times (Based on USB3.1 Standard)						

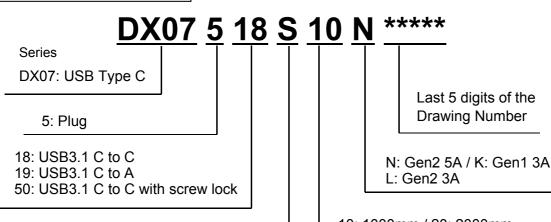
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Materials and Finishes

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.

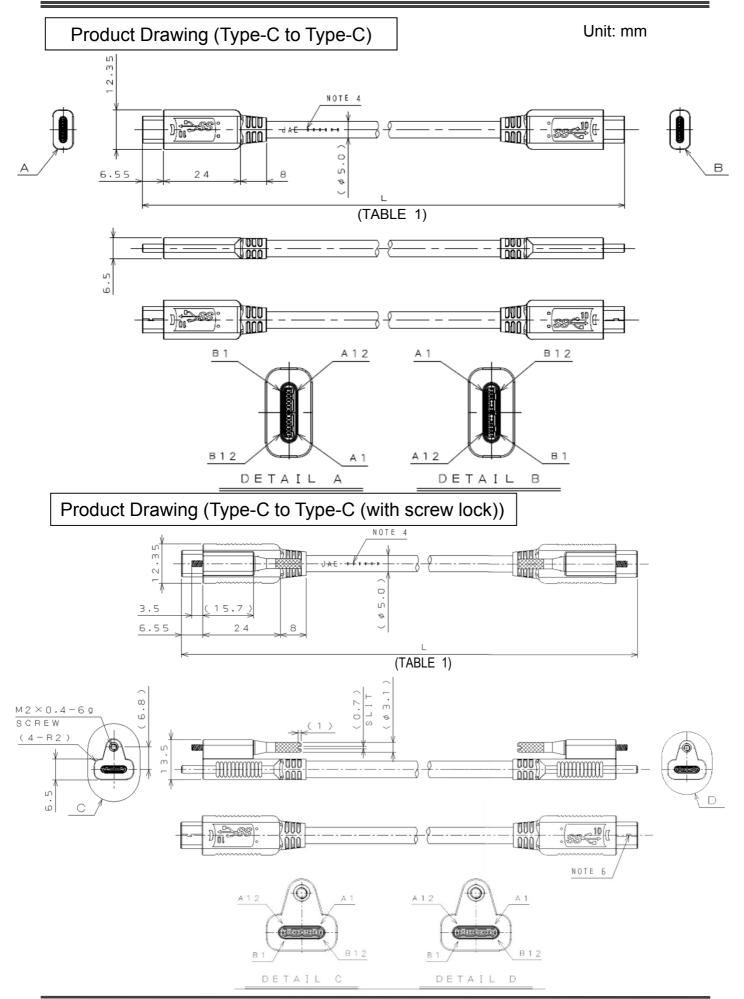
Ordering Information



S: PVC Black / B: TPE Black

10: 1000mm / 20: 2000mm

Harness Type	Part Number	Drawing No.	Specifications		
	DX07518S10N18747	SJ118747			
USB Type-C	DX07518S20K18747	53110747			
IO USB Type-C	DX07518B10N19114	0.1440444			
	DX07518B20K19114	SJ119114	JACS-40186		
USB Type-C to	DX07550B10N19510	0.1/10.7/0	JACS-40187		
USB Type-C (with screw lock)	DX07550B20K19510	SJ119510			
USB Type-C	DX07519S10L19294	SJ119294			
USB 3.1 Standard-A	DX07519B10L18748	SJ118748			



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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)

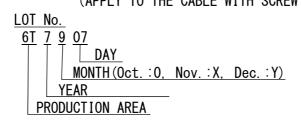
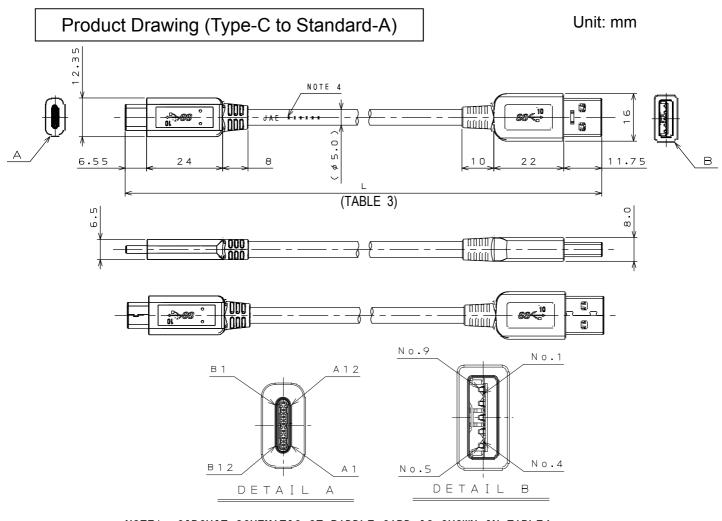


TABLE 1

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

TABLE 2 (NOTE1)

NUMBER AREA WINCLAR A 1 O N D E - M A R K E R A 2 \$8TXp1 IOnF A 3 \$8TXn1 IOnF A 4 V BUS IOnF A 5 C C IOnF A 6 D p 1 IOnF A 7 D n 1 IOnF A 8 SBU1 IOnF A 9 V BUS IOnF A 10 \$8Rxn2 IOnF A 12 O N D IOnF B 1 O N D IOnF B 2 \$8TXp2 IONF B 3 \$8Txp2 IONF B 4 V BUS IONF B 7 IONF IONF B 8 SBU2 IONF B 9 V BUS IONF B 10 \$8Rxn1 IONF B 11 \$8Rxn1 IONF	DC	PAD	PA	PAD						<i>,</i>			Т	٧	VI	RI	=	A F	RE.	A		PADDI AREA	E C	ARD	SIGNAL NAME	PIN NUMBER
A 1 G N D A 2 \$\$STXp1 A 3 \$\$STXn1 A 4 V BUS A 5 C C A 6 D p 1 A 7 D n 1 A 8 SBU1 10nF A 9 A 1 0 \$\$SRXn2 A 1 1 \$\$SRXp2 A 1 2 G N D B 1 G N D B 2 \$\$STXp2 B 3 \$\$STXp2 B 4 V BUS B 5 V CONN B 6	E /	ARE	АН	HE	<u> </u>	_							\pm								+	AKEA				NUMBER
A 2 s8TXp1 A 3 s8TXn1 10nF A 4 V Bus A 5 C C A 6 D p 1 A 7 D n 1 A 8 S B U 1 10nF A 7 A 7 D n 1 A 7 S 8 R X n 2 A 1 0 s8 R X n 2 A 1 1 s8 R X p 2 A 1 2 G N D B 3 s8 T X p 2 B 4 V B us B 5 V conn B 6						E	-	- M	1 A	۱R	KE	R	Ц													
A 2 s8TXp1 A 3 s8TXn1 10nF A 4 V Bus A 5 C C A 6 D p 1 A 7 D n 1 A 8 S B U 1 10nF A 7 A 7 D n 1 A 7 S 8 R X n 2 A 1 0 s8 R X n 2 A 1 1 s8 R X p 2 A 1 2 G N D B 3 s8 T X p 2 B 4 V B us B 5 V conn B 6													!													
A 3 \$88TXn1 10nF A 4 V 8us A 5 C C A 6 D p 1 A 7 D n 1 A 8 S BU 1 10nF A A 7 D n 1 A 8 S BU 1 10nF A A 9 V 8us A 1 0 \$\$88Xn2 A 1 2 O N D B 1 O N D B 2 \$\$8TXp2 B 3 \$\$8Txn2 B 4 V 8us B 5 V conn B 6						┥							i								į				GND	A 1
A 4 V BUS A 5 C C A 6 D p 1 A 7 D n 1 A 8 SBU1 A 7 D n 1 A 8 SBU1 A 9 V BUS A 10 ssRxn2 A 11 ssRxp2 A 12 G N D B 1 G N D B 2 ssTxp2 B 3 ssTxp2 B 4 V BUS B 5 V conn B 6						-1	<u> </u>	_	┝-		┝—	-↑	·										Ւ—		SSTXp1	A 2
A 4 V BUS A 5 C C A 6 D p 1 A 7 D n 1 A 8 SBU1 10nF A9 A 10 S8Rxn2 A 11 S8Rxp2 A 12 O N D B 3 SSTXp2 B 3 SSTXp2 B 4 V BUS B 5 V CONN B 6	0	10		1	On	╔	<u> </u>	_	┝-		┝—	-↑	·	ר						Г			Ւ—		SSTXn1	AЗ
A 6 D p 1 A 7 D n 1 A 8 SBU1 10nF A 9 V BUS A 10 ssRxn2 A 11 ssRxp2 A 12 O N D B 1 O N D B 2 ssTxp2 B 3 ssTxp2 B 4 V BUS B 5 V conn B 6			-1																						Veus	A 4
A 7 D n 1 A 8 SBU1 10nF A 9 V 803 A 10 S8RXn2 A 11 S8RXp2 A 12 O N D B 1 O N D B 3 S8TXp2 B 4 V 803 B 5 V 00NN B 6	_	-ሎ-	-1	ተ-		-ተ	<u>`</u>	_	┝-		┝—	-		ተሳ	<u> </u>					ኮሳ			<u>۲</u> —	ተ-	СС	A 5
A 8 S B U 1 10 n F A 9 V BUS A 1 0 SSRXn2 A 1 1 SSRXp2 A 1 2 O N D B 1 O N D B 2 SSTXp2 B 3 SSTXp2 B 4 V BUS B 5 V conn B 6	_	-ሎ-	-1	ተ		-1	<u> </u>	_	┝-		┝—			ተ	<u> </u>					ኮሳ			<u>۲</u>	ተ-	Dp1	A 6
A 9 V BUS A 10 SSRXn2 A 11 SSRXp2 A 12 G N D B 1 G N D B 2 SSTXp2 B 3 SSTXp2 B 4 V BUS B 5 V conn B 6		-∱-	-1	ተ-		-1	<u> </u>	_	┝-		┝—			ተሳ	<u> </u>					ኮሳ			<u>۲</u>	ተ-	Dn 1	A 7
A 9 V BUS A 10 SSRXn2 A 1 0 SSRXn2 A 1 2 G N D B 1 G N D B 2 SSTXp2 B 3 SSTXn2 B 4 V BUS B 5 V CONN B 6	0	-ሲ.	-4	ቲ	0.0	∄	<u> </u>	_	┝-		┝—			ተ	<u> </u>		٦			ኮሳ			<u>۲</u>	ሱ-	SBU1	A 8
A 1 1 ssrxp2 A 1 2 O N D B 1 O N D B 2 ssrxp2 B 3 ssrxp2 B 4 V BUS B 5 V CONN B 6			-	╉																				┢	Veus	A 9
A 1 2 G N D B 1 G N D B 2 88TXp2 B 3 88TXn2 B 4 VBUS B 5 V CONN B 6 — B 7 — B 8 SBU2 B 9 VBUS B 1 0 SSRXn1	_	-∱-	-4	ተ		-ተ	<u> </u>	_	┝-		┝—			ሎ	<u> </u>	7		г		ኮሳ			<u>۴</u> —	ሱ-	SSRXn2	A 1 0
B 1 G N D B 2 sstxp2 B 3 sstxp2 B 4 V BUS B 5 V CONN B 6	_	-∱-	-1	ተ-		-ተ	<u> </u>	_	┝-		┝—			ተሳ					_	ኮሳ			<u>۴</u> —	ሱ-	SSRXp2	A 1 1
B 2 \$8TXp2 B 3 \$8TXp2 B 4 VBUS B 5 VOONN B 6	_	-ᠰ-	-4	ተ-		┥																	-	ሱ-	GND	A 1 2
B 3 \$87Xn2 B 4 V BUS B 5 V CONN B 6	_	-∱-	-1	ᠰ		┥																	-	ተ-	GND	В1
B 4 V BUS B 5 V CONN B 6	_	╇	└┤	╓		┦	<u> </u>	_	┝	_	┡			서	Ľ		Ľ	跻	ጉ	Μ			┣—	∱-	SSTXp2	B 2
B 5 V CONN B 6 B 7 B 8 SBU2 B 9 V BUS B 1 0 SSRXn1	_	╇	└┤	╓		┦	<u> </u>	_	┡	_	┡			ᄊ			⇇	臼	_	Μ			10 n	ᡗ᠆	SSTXn2	вз
B 6		+	-	+																			ΗÏ	+	Veus	В4
B 7 B 8 SBU2 B 9 V BUS B 10 ssRxn1	_	-∱-	-4	ተ		-ተ	<u> </u>		J		L			ሎ	<u> </u>		ቍ	┝—		ኮሳ			<u>۴</u> —	ሱ-	VCONN	в5
B 8 SBU2 B 9 V BUS B 10 SSRXn1																						,	Ĺ			в6
B 9 V BUS B 1 0 SSRXn1			Ī			1	·							ſ					_					1		в7
	_	┶	└┤	╓		┦	<u> </u>							\mathbb{A}				┣—		Μ			10 n	ᡗ᠆	SBU2	в8
																							ΗÏ	Ļ	Veus	В9
						┦	<u> </u>							7	\sum					臼			┣—		SSRXn1	в10
						┦	<u> </u>												_	<u>} </u>			┣—		SSRXp1	B11
B12 GND						┥																			GND	B12
SHELL SHIELD																									SHIELD	SHELL



- 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		
DX07519B10L18748	1000	USB 3.1 Gen 2	

TAB	<u> </u>	<u>(NO</u>	<u>) TE1)</u>						
	Т	Y P E - C		wі	RE	STDA			
PIN NUMBER	S]GNAL NAME	PAU	DDLE CARD		AR	ΕA	S[GNAL NAME	P]N NUMBER	
A 1	GND						V BUS	1	
A 2	SSTXp1		1	i	r		Dn 1	2	
AЗ	SSTXn1		h	1			Dp1	з	
A 4	VBUS	56 k Q	+	÷	<u>↑</u> †	᠂᠇ᠰ	GND	4	
Α5	сс		L			<u>-</u>	SSRXn	5	
Aб	Dp1	—————————————————————————————————————		Ť		ЧŰ-	SSRXp	6	
Α7	Dn 1	├──────────			┢──┘		GND	7	
A 8	SBU1			i	r		SSTXn	8	
Α9	VBUS						SSTXp	9	
A 1 0	SSRXn2			i					
A 1 1	SSRXp2			1					
A 1 2	GND	<u> </u> ↑		i					
в 1	GND	<u>├</u> ─────────		1					
В2	SSTXp2			i					
вз	SSTXn2			1					
в4	VBUS			i					
В 5	VCONN			1					
в6				i					
в 7				1					
в8	SBU2			I					
В9	V BUS			+	1 1				
в10	SSRXn1	10nF []	<u> </u>	 					
в11	SSRXp1	<u>— Т</u>		+					
B12	GND	+		I					
SHELL	SHIELD	-		-1			SHIELD	SHELL	

Notice:

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.

. 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.

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

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