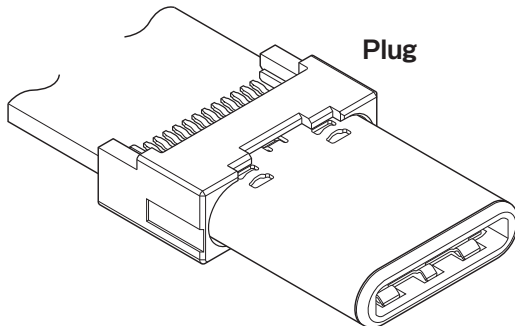


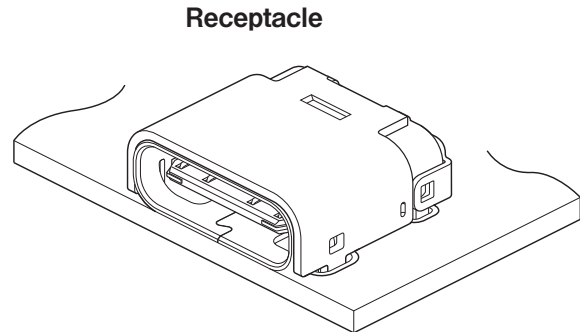


UBC CONNECTOR

USB (Universal Serial Bus) standard-compliant connector



Plug



Receptacle

The UBC connector is an USB Type-C compliant interface connector capable of supplying up to 100 W of power. The receptacle is USB4 compliant with a data transmission rate of up to 40 Gbps. Reversible structure that can be inserted regardless of front or back orientation of the plug.

- Up to 10,000 high durability mating cycles
- Halogen-free

Plug

- The housing cover prevents hot molding materials from flowing inside the connector during the injection overmold operation in the wire harness manufacturing process.

Receptacle

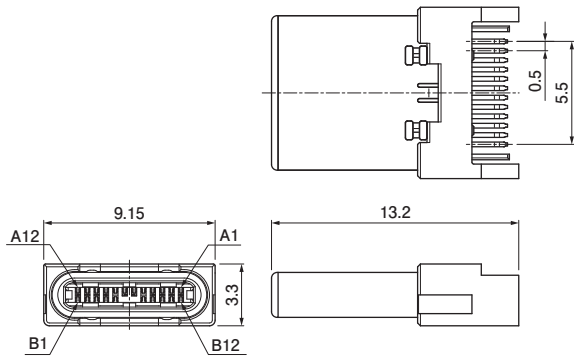
- Providing a robust, double-shell structure (single shell is also available)
- Connector leads are based on a hybrid through-hole and SMT soldering design

Specifications

- Current rating:
 - 1.25 A DC/Pin Vbus (A4, A9, B4, B9)
GND (A1, A12, B1, B12)
CC1 (A5)
CC2 (B5)
 - 0.25 A DC/Pin Other circuits
- Voltage rating: 20 V AC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Initial value/ 40 mΩ max.
 - After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:
 - There shall be no breakdown or flashover while applying 100 VAC for one minute.
- * Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

Plug

TID No. : 5200000193



Note: A1, A12, B1, B12 are circuit numbers.

Model No.	Q'ty/box
UBC-P-514-7B(HF)	3,888

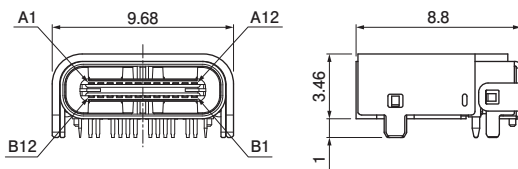
Material and Surface finish, etc.	
Housing	PA (Heat resistance), black
Contact A	Copper alloy, selective gold-plated, selective tin-plated
Contact B	
Shell	Stainless steel
Ground bar	
Lock	Stainless steel, tin-plated
Center ground plate	Stainless steel
Cover housing	PA (Heat resistance), black
Polyimide tape	Polyimide

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Receptacle (On-board specification)

Standard type

TID No. : 6916



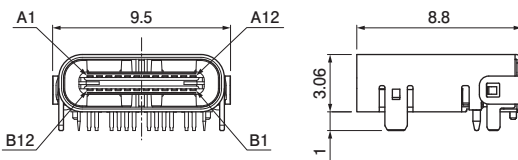
Note: A1, A12, B1, B12 are circuit numbers.

Model No.	Q'ty/reel
UBC-R1B12-56C-7ATS(HF)	1,000

Material and Surface finish, etc.	
Contact A	Copper alloy, selective PD-NI plated selective gold-plated
Contact B	
Housing	PA (Heat resistance), black
EMC pad	Stainless steel
Mid plate	Stainless steel, selective gold-plated
Shell	Stainless steel, tin-plated
Cover shell	

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

Low profile type



Note: A1, A12, B1, B12 are circuit numbers.

Model No.	Q'ty/reel
UBC-R1AB12-56C-7ATS(HF)	1,000

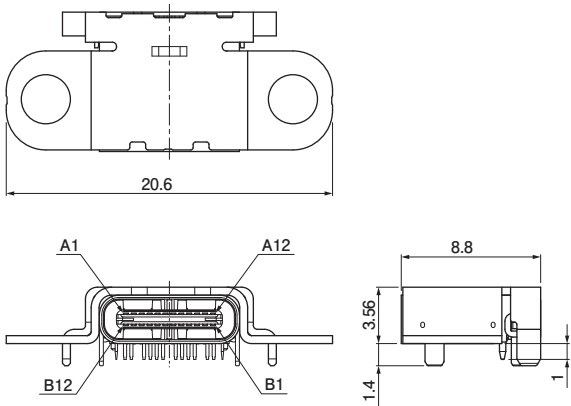
Material and Surface finish, etc.	
Contact A	Copper alloy, selective PD-NI plated selective gold-plated
Contact B	
Housing	PA (Heat resistance), black
EMC pad	Stainless steel
Mid plate	Stainless steel, selective gold-plated
Shell	Stainless steel, tin-plated

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

UBC CONNECTOR

Receptacle (On-board specification)

Enhanced pry resistance type
TIDNo. : 7159



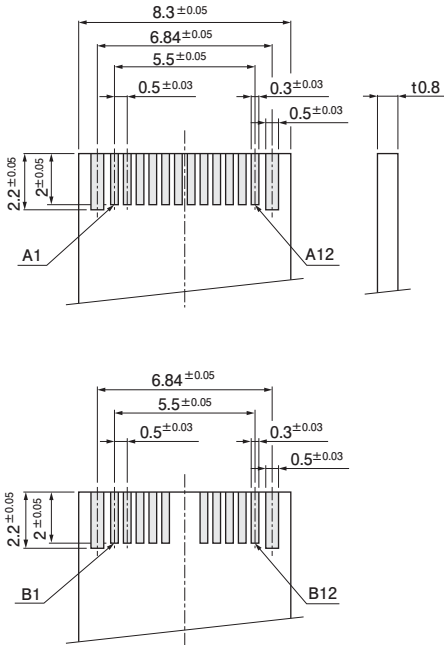
Note: A1, A12, B1, B12 are circuit numbers.

Model No.		Q'ty/reel
UBC-R9AB12-56C-7ATS(HF)		1,300
Material and Surface finish, etc.		
Contact A	Copper alloy, selective PD-NI plated	
Contact B	selective gold-plated	
Housing	PA (Heat resistance), black	
EMC pad	Stainless steel	
Mid plate	Stainless steel, selective gold-plated	
Shell	Stainless steel, tin-plated	
Cover shell	Stainless steel, nickel-plated	

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

PC board layout

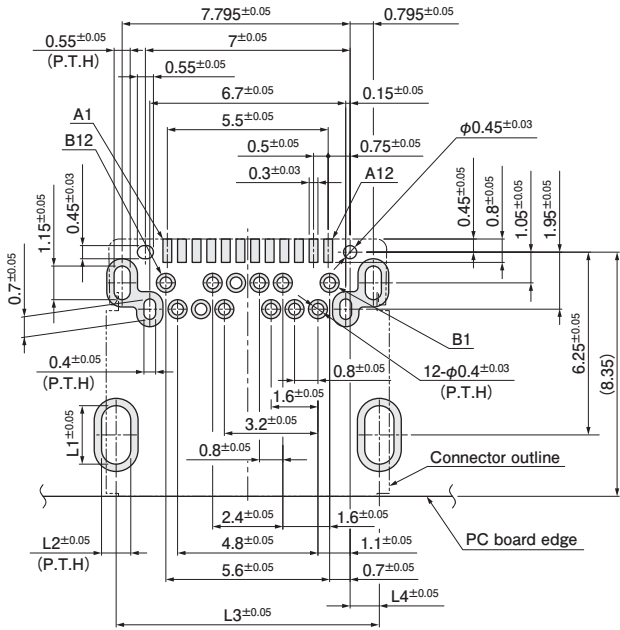
Plug



- Note: 1. A1, A12, B1, B12 are circuit numbers.
 2. Tolerance for the PCB pad pitch shall be ± 0.03 , and shall not accumulate more than ± 0.05 .
 3. The above dimensions are reference values. Please contact JST for details.

PC board layout

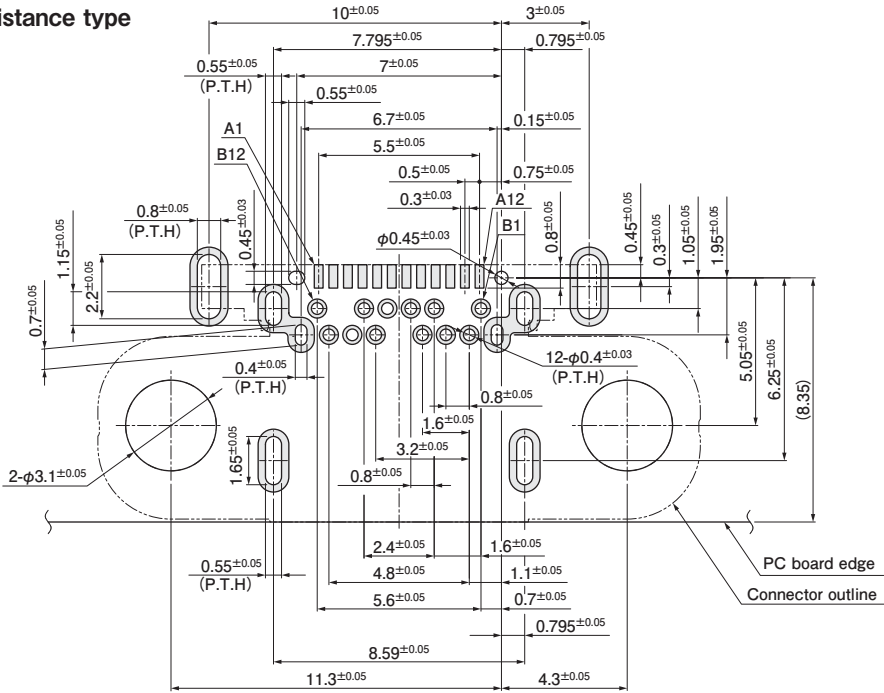
Receptacle
(On-board specification)
Standard type,
Low profile type



Recommended PC board thickness: t1.0

Type	Model No.	Dimensions (mm)			
		L1	L2	L3	L4
Standard type	UBC-R1B12-56C-7ATS (HF)	2	1	9	1
Low profile type	UBC-R1AB12-56C-7ATS (HF)	1.65	0.55	8.59	0.795

Receptacle
(On-board specification)
Enhanced pry resistance type



Recommended PC board thickness: t1.0

- Note:
1. A1, A12, B1, B12 are circuit numbers.
 2. The PC board layout figure shown is viewed from the connector mounting surface.
 3. Tolerance for the PCB pad pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
 4. The above dimensions are reference values. Please contact JST for details.