Amphenol
Industrial

Amphenol LTW
Innovation in Waterproof Solution
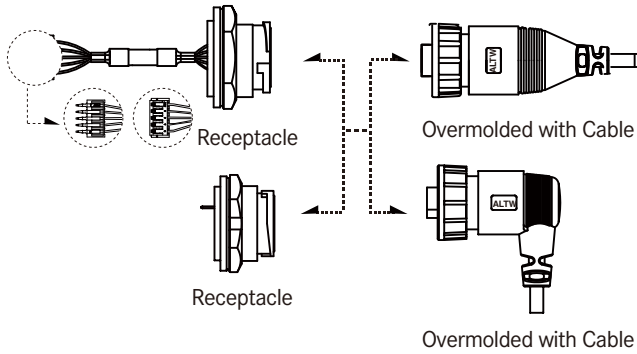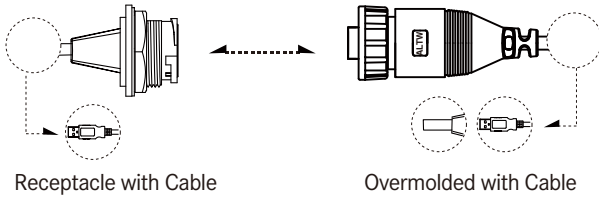
CATALOGUE
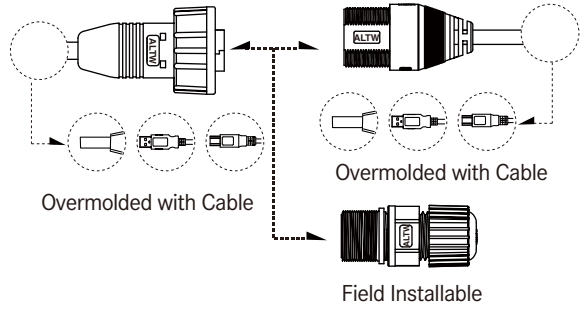
USB/Micro USB

USB Type C

Micro USB
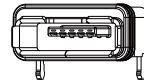
Range Overview

⬊ Receptacle to Overmolded with Cable

Receptacle

Overmolded with Cable

Receptacle

Overmolded with Cable

⬊ Receptacle with Cable to Overmolded with Cable

Receptacle with Cable

Overmolded with Cable

⬊ In-Line
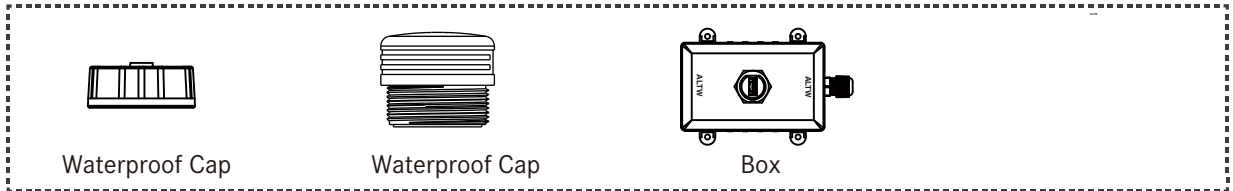
Overmolded with Cable

Overmolded with Cable

Field Installable

⬊ Micro USB

⬊ Accessories

Waterproof Cap

Waterproof Cap

Box

【Note】 Design and specification are subject to change without notice.

IP 67 . 68
Unmated or Mated

Specification | USB Type A/B

Identifications	USB Type A 3.0 USB Type A 2.0 USB Type B 2.0 Mini USB Type B 2.0
Description	Receptacle Receptacle With Cable Overmolded with Cable Field Installable
Current Rating / Data	USB 2.0: 1.5A USB 3.0: 1A
Material	Contacts: Copper Alloy, Gold Plated Connector Body (Housing): PBT, UL94V-0
Waterproof Rating	IP67/68
Temperature Range	Receptacle: Nylon+GF: -40°C~105°C M-PPE: -40°C~105°C ABS: -20°C~80°C Receptacle with cable: Nylon+GF: -20°C~105°C ABS: -20°C~80°C Overmolded with Cable: -20°C~80°C Field Installable: -20°C~80°C
Contact Resistance	≤ 30mΩ
Insulation Resistance	≥ 1000MΩ at DC500V
More to know	Standard Cable Length - USB 2.0: 1 ~ 5m - USB 3.0: 1 ~ 3m - Mini USB: 1 ~ 4m

Specification | USB Type C

Identifications	USB Type C 3.1
Description	Receptacle Overmolded with Cable
Current Rating / Data	3A
Material	Contacts: Copper Alloy, Gold Plated Connector Body (Housing): PP, UL94V-0, f1 Rated
Waterproof Rating	IP68
Temperature Range	-40°C ~105°C
Contact Resistance	≤ 50mΩ
Insulation Resistance	≥ 100MΩ at DC500V
More to know	Standard Cable Length: 1 ~ 3m

【Note】Design and specification are subject to change without notice.

Ordering Information | USB & Mini USB

①—②   ③   ④   ⑤   ⑥—⑦   ⑧   ⑨   ⑩

Specification

(**UA**) USB Type A   (**UC**) USB Type C
(**UB**) USB Type B   (**NUB**) Mini USB Type B

Data Transfer Rate

(**20**) 2.0   (**G1**) 3.1 Gen 1 (Plug)
(**30**) 3.0   (**G2**) 3.1 Gen 2 (Plug)
(**31**) 3.1 (Jack)

Connector Body (Style)

> For Receptacle   > For Overmolded with Cable
(**P**) Front Fastened   (**A**) With Strain Relief
> For Field installable   (**B**) Without Strain Relief
(**B**) Without Strain Relief

Connector (Housing) Gender

(**M**) Male   (**F**) Female

Contact Gender

(**M**) Male (Plug)   (**F**) Female (Jack)

Assemble Style

> For Receptacle   > For Overmolded with Cable
(**P**) 180° PCB Type   (**M**) Overmolded with Cable
(**R**) 90° PCB Type   > For Field Installable
(**J**) Jack   (**A**) Field installable (Solder)

Mating Style

(**S**) Screw Thread   (**L**) 2 Points Lock Bayonet
                                      (Nut OD: 28.5mm)
(**N**) 2 Points Lock Bayonet   (**Q**) Quick Lock
      (Nut OD: 25.4mm)

Backshell

> For Receptacle   > For Overmolded with Cable   > For Field Installable
(**C**) Circular   (**L**) Straight   (**L**) Straight
(**S**) Square   (**R**) Right Angle

Waterproof Rating

(**7**) IP 67
(**8**) IP 68

More Information

> For Receptacle   > For Overmolded with Cable
(**001**) Without Cable   (□)+(■) : Cable Type + Cable Length
(**002**) With Cable (Harness: 50mm) e.g. (**A01**) = USB 2.0 Cable + 1M

(□) : Cable Type   (■) : Cable Length
(**A**) USB 2.0 Cable   USB 2.0: From 1m to 5m
(**B**) USB 3.0 Cable   USB 3.0: From 1m to 3m
(**C**) USB 3.1 Cable   Mini USB 2.0: From 1m to 4m
                            e.g. (**01**) = 1M

Ordering Information | USB | Double-ended
ALTW waterproof connector to ALTW waterproof connector
ALTW waterproof connector to Standard USB connector (None Waterproof)

①—② ③ ④ ⑤—⑥ ⑦ ⑧ ⑨

Specification (1st End)

(**UA**) USB Type A   (**UC**) USB Type C
(**UB**) USB Type B

Data Transfer Rate

(**20**) 2.0   (**G1**) 3.1 Gen 1 (Plug)
(**30**) 3.0   (**G2**) 3.1 Gen 2 (Plug)
(**31**) 3.1 (Jack)

Connector Body (Style)

> For Receptacle   > For Overmolded with Cable

(**P**) Front Fastened   (**A**) With Strain Relief
                              (**B**) Without Strain Relief

Connector (Housing) Gender

(**M**) Male   (**F**) Female

Contact Gender

(**M**) Male (Plug)   (**F**) Female (Jack)

Mating Style

(**S**) Screw Thread   (**L**) 2 Points Lock Bayonet (Nut OD: 28.5mm)   (**Q**) Quick Lock

Specification (2nd End)

(**A**) USB Type A 2.0 (Plug, Non-waterproof)   (**E**) USB Type C 3.1 Gen1 (Plug, Waterproof)
(**B**) USB Type B 2.0 (Plug, Non-waterproof)   (**F**) USB Type C 3.1 Gen2 (Plug, Waterproof)
(**D**) USB Type A 3.0 (Plug, Non-waterproof)

Waterproof Rating

(**6**) IP 66
(**7**) IP 67
(**8**) IP 68

More Information

> For Receptacle with Cable   > For Overmolded with Cable

(☐)+(■) : Cable Type + Cable Length   (☐)+(■) : Cable Type + Cable Length

e.g. (**BX15**) = USB 3.0 Cable + 150mm   e.g. (**A01**) = USB 2.0 Cable + 1M

(☐) : Cable Type	(■) : Cable Length		(☐) : Cable Type	(■) : Cable Length
(B) USB 3.0 Cable	USB 3.0: From 150mm to 300 mm e.g. (15) = 150mm		(A) USB 2.0 Cable (B) USB 3.0 Cable (C) USB 3.1 Cable	USB 2.0: From 1m to 5m USB 3.0: From 1m to 3m e.g. (01) = 1M

【Note】 Design and specification are subject to change without notice.
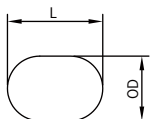
USB/Micro USB I Physical Dimension
USB Type A/B/C | Mini USB Type B
Receptacle | Overmolded with Cable | Field Installable

IP 67 . 68
Unmated or Mated

Physical Dimension | USB

↘ Receptacle

Panel Cut-Out

Type A/B
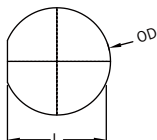
Type C

Type		Mating Style	Housing Gender	L	OD
USB2.0	Type A	Screw Thread	Male	19.4	20.8
		2 Points Lock Bayonet		19.4	20.8
	Type B	Screw Thread		19.4	20.8
		2 Points Lock Bayonet		23.6	25.6
USB3.0	Type A	Screw Thread		19.4	20.8
		2 Points Lock Bayonet		23.6	25.6
Mini USB	-	Screw Thread		14.8	15.6
USB3.1	Type C	Quick	Female	16.7	11.3

* Maximum Panel Thickness: USB: 4mm I Mini USB: 2.5mm

Unit: mm

Connector Dimension
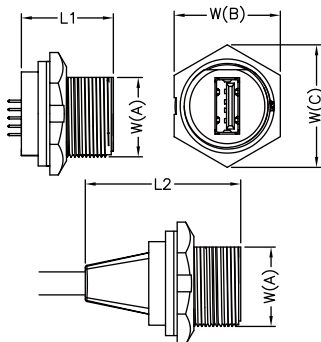
Receptacle with Cable

Type		Mating Style	Housing Gender	W(A)	W(B)	W(C)	L1	L2
USB2.0	Type A	Screw Thread	Male	19.0	25.4	29.3	22.0	-
		2 Points Lock Bayonet		23.2	28.5	32.9	20.3	-
	Type B	Screw Thread		19.0	25.4	29.3	22.0	-
		2 Points Lock Bayonet		23.2	28.5	32.9	20.3	-
USB3.0	Type A	Screw Thread		19.0	25.4	29.3	-	37.2
		2 Points Lock Bayonet		23.2	28.5	32.9	-	37.5
Mini USB	-	Screw Thread		14.5	20.6	23.5	15.0	-

* USB: Screw I Middle Size (13/16"-28 UNS)
　　　2 Points Lock Bayonet I Large Size (1"20 UNEF)
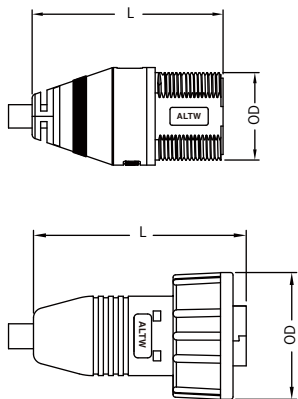*Mini USB: Screw I Standard Size (5/8"-27 UNS)
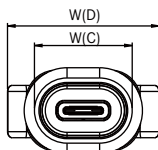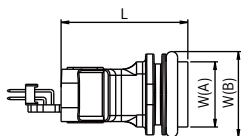
Unit: mm

Type		Mating Style	Housing Gender	W(A)	W(B)	W(C)	W(D)	L1
USB3.1	Type C	Quick	Female	10.8	14.2	19.6	25.1	21.0

*Recommended Screw Size: M2x0.4x10mmL (min.)

Unit: mm

↘ Overmolded with Cable
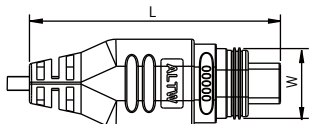

Type		Mating Style	Housing Gender	L	OD
USB2.0	Type A	Screw Thread	Female	42.6	25.4
			Male	45.0	20.6
		2 Points Lock Bayonet	Female	73.3	28.5
			Male	-	-
	Type B	Screw Thread	Female	42.6	25.4
			Male	45.0	20.6
		2 Points Lock Bayonet	Female	73.3	28.5
			Male	-	-
USB3.0	Type A	Screw Thread	Female	42.6	42.6
			Male	45.0	20.6
		2 Points Lock Bayonet	Female	75.0	28.5
			Male	-	-

* USB: Screw l Middle Size (13/16"-28 UNS)
     2 Points Lock Bayonet l Large Size (1"20 UNEF)
*Mini USB: Screw l Standard Size (5/8"-27 UNS)

Unit: mm
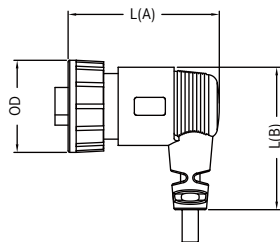
Type		Mating Style	Housing Gender	L(A)	L(B)	OD
USB2.0	Type A	Screw Thread	Female	-	-	-
		2 Points Lock Bayonet		46.8	44.1	28.5
	Type B	Screw Thread		-	-	-
		2 Points Lock Bayonet		46.8	44.1	28.5
USB3.0	Type A	Screw Thread		-	-	-
		2 Points Lock Bayonet		-	-	-
Mini USB	-	Screw Thread		-	-	-

* USB: Screw l Middle Size (13/16"-28 UNS)
     2 Points Lock Bayonet l Large Size (1"20 UNEF)

Unit: mm

【Note】 Design and specification are subject to change without notice.

USB/Micro USB I Physical Dimension

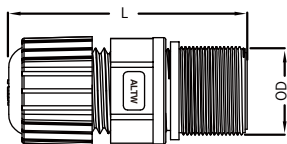**USB Type A/B/C | Mini USB Type B**
Receptacle | Overmolded with Cable | Field Installable

IP 67 . 68
Unmated or Mated

Type		Mating Style	Housing Gender	W	L
USB2.0/3.0	Type C	Quick Lock	Male	14.2	51.1

Unit: mm

Type		Mating Style	Housing Gender	L	OD
USB2.0	Type A	Screw Thread	Male	56.0	20.6
		2 Points Lock Bayonet		-	-
	Type B	Screw Thread		56.0	20.6
		2 Points Lock Bayonet		-	-
USB3.0	Type A	Screw Thread		-	-
		2 Points Lock Bayonet		-	-
Mini USB	-	Screw Thread		45.0	15.45

Unit: mm

* USB: Screw I Middle Size (13/16"-28 UNS)
    2 Points Lock Bayonet I Large Size (1"20 UNEF)
*Mini USB: Screw I Standard Size (5/8"-27 UNS)

Product Features | USB

↘ Receptacle
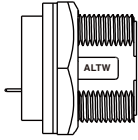
Mating Style 7	**Connector Body (Style)** 3
Screw Thread **(S)**	Front Fastened **(P)**
2 Points Lock Bayonet **(L)** (Nut OD: 28.5mm) 2 Points Lock Bayonet **(N)** (Nut OD: 25.4mm)	

Backshell 8

Circular **(C)**

↘ Overmolded with Cable

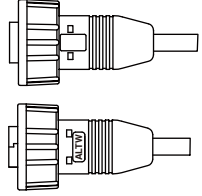| **Mating Style** 7	**Connector Body (Style)** 3
Screw Thread **(S)**	With Strain Relief **(A)**
2 Points Lock Bayonet **(L)** (Nut OD: 28.5mm) 2 Points Lock Bayonet **(N)** (Nut OD: 25.4mm)	Without Strain Relief **(B)**
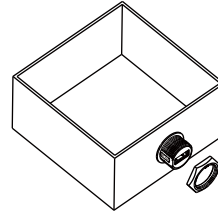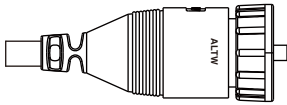
Backshell 8

Straight (L)

Right Angle (R)

↘ Field Installable

Mating Style 7	**Connector Body (Style)** 3
Screw Thread **(S)**	Without Strain Relief **(B)**

Backshell 8

Straight **(L)**

【Note】 Design and specification are subject to change without notice.

USB/Micro USB I Find Our Standard Products
USB Type A | Type B
In-line
Screw Thread
Middle Size
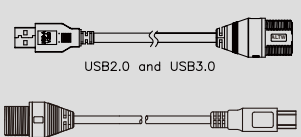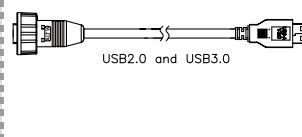
IP 67 . 68
Unmated or Mated
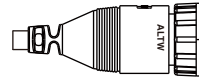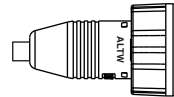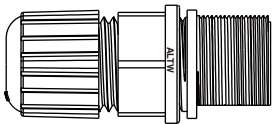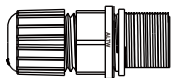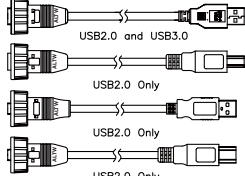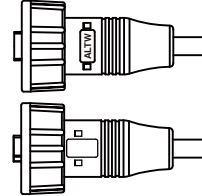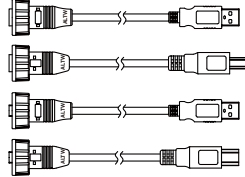
Find Our Standard Products | USB

↘ USB > In-line

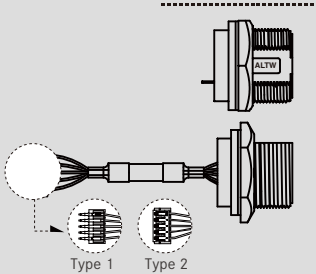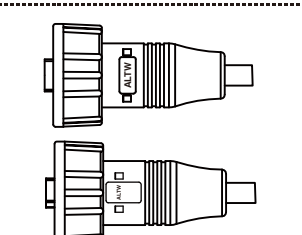| •Male Connector (Housing) •Female Contacts •Screw Thread •Middle Size (13/16"-28 UNS)	Overmolded with Cable ·····> ** USB 2.0: Choose the cable length from 01~05m ** USB 3.0: Choose the cable length from 01~03m	Overmolded with Cable ** USB 2.0: Choose the cable length from 01~05m ** USB 3.0: Choose the cable length from 01~03m	Overmolded with Cable (Double-Ended) USB2.0 and USB3.0 / USB2.0 Only / USB2.0 Only / USB2.0 Only / Non-Waterproof ** USB 2.0: Choose the cable length from 01~05m ** USB 3.0: Choose the cable length from 01~03m
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20AMFM-SL7A<u>XX</u>**	UA-20BFMM-SL7A<u>XX</u>**	UA-20BFM-SA7A<u>XX</u>** UA-20BFM-SB7A<u>XX</u>**
USB Type B 2.0	UB-20AMFM-SL7A<u>XX</u>**	UB-20BFMM-SL7A<u>XX</u>**	UB-20BFM-SA7A<u>XX</u>** UB-20BFM-SB7A<u>XX</u>**
USB Type A 3.0	UA-30AMFM-SL7B<u>XX</u>**	UA-30BFMM-SL7B<u>XX</u>**	UA-30BFM-SD7B<u>XX</u>**

↘ USB > In-line

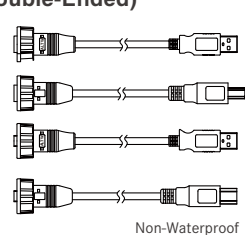| • Male Connector (Housing) • Female Contacts • Screw Thread •Middle Size (13/16"-28 UNS)	Field Installable ·······>	Overmolded with Cable ** USB 2.0: Choose the cable length from 01~05m	Overmolded with Cable (Double-Ended) Non-Waterproof ** USB 2.0: Choose the cable length from 01~05m
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20BMFA-SL8001	UA-20BFMM-SL7A<u>XX</u>**	UA-20BFM-SA7A<u>XX</u>** UA-20BFM-SB7A<u>XX</u>**
USB Type B 2.0	UB-20BMFA-SL8001	UB-20BFMM-SL7A<u>XX</u>**	UB-20BFM-SA7A<u>XX</u>** UB-20BFM-SB7A<u>XX</u>**

↘ USB > In-line

• Male Connector (Housing) • Female Contacts • Screw Thread • Middle Size (13/16"-28 UNS)	Overmolded with Cable ·····> (Double-Ended) USB2.0 and USB3.0 ** USB 2.0: Choose the cable length from 01~05m ** USB 3.0: Choose the cable length from 01~03m	Overmolded with Cable (Double-Ended) → USB2.0 and USB3.0 ** USB 2.0: Choose the cable length from 01~05m ** USB 3.0: Choose the cable length from 01~03m	Field Installable
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20AMF-SA7AXX** UA-20AMF-SB7AXX**	UA-20BFM-SA7AXX** UA-20BFM-SA7AXX**	-
USB Type A 3.0	UA-30AMF-SD7BXX**	UA-30BFM-SD7BXX**	-
USB Type B 2.0	UB-20AMFM-SA7AXX** UB-20AMFM-SB7AXX**	UB-20BFM-SA7AXX** UB-20BFM-SB7AXX**	-

↘ USB > Receptacle and Mating Pair

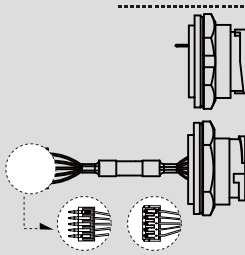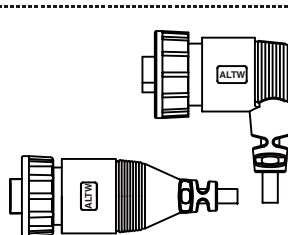| • Male Connector (Housing) • Female Contacts • Screw Thread • Middle Size (13/16"-28 UNS)	Receptacle ············> Type 1 Type 2	Overmolded with Cable → ** Choose the cable length from 01~05m	Overmolded with Cable (Double-Ended) Non-Waterproof ** Choose the cable length from 01~05m
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20PMFP-SC8001 UA-20PMFP-SC8002 Type1 UA-20PMFP-SC8003 Type2	UA-20BFMM-SL7AXX**	UA-20BFM-SA7AXX** UA-20BFM-SB7AXX**
USB Type B 2.0	UB-20PMFP-SC8001 UB-20PMFP-SC8002 UB-20PMFP-SC8003	UB-20BFMM-SL7AXX**	UB-20BFM-SA7AXX** UB-20BFM-SB7AXX**

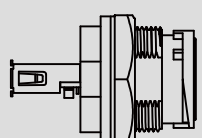【Note】 Design and specification are subject to change without notice.
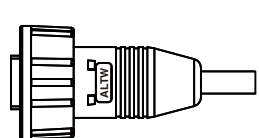
IP 67 . 68
Unmated or Mated

↘ USB > Receptacle and Mating Pair

• Male Connector (Housing) • Female Contacts •2 Points Lock Bayonet (Nut OD: 28.5mm) •Large Size (1"20 UNEF)	Receptacle ----> Type 1 Type 2	Overmolded with Cable ----> ** Choose the cable length from 01~05m	Field Installable
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20PMFP-LC7001 UA-20PMFP-LC7002 Type1 UA-20PMFP-LC7003 Type2	UA-20AFMM-LL7AXX** UA-20AFMM-LR7AXX**	-
USB Type B 2.0	UB-20PMFP-LC7001 UB-20PMFP-LC7002 UB-20PMFP-LC7003	UB-20AFMM-LL7AXX** UB-20AFMM-LR7AXX**	-

↘ USB > Receptacle and Mating Pair

• Male Connector (Housing) • Female Contacts • 2 Points Lock Bayonet (Nut OD: 25.4mm) •Large Size (13/16-28 UN)	Receptacle ---->	Overmolded with Cable ----> ** Choose the cable length from 01~05m	Field Installable
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 2.0	UA-20PMFJ-NC7001	UA-20BFMM-NL7AXX**	-

⬂ USB > Receptacle with Cable and Mating Pair

• **Male Connector** (Housing) • **Female Contacts** • **Screw Thread** • **2 Points Lock Bayonet** (Nut OD: 28.5mm) • **Large Size** (1"20 UNEF)	**Receptacle with Cable (Double-Ended)** ┈┈▶ Non-Waterproof * USB 3.0: Choose the cable length from 150~300mm	**Overmolded with Cable** ┈┈┈┈┈┈┈┈▶ ** USB 3.0: Choose the cable length from 01~03m	**Overmolded with Cable (Double-Ended)** ** USB 3.0: Choose the cable length from 01~03m
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
USB Type A 3.0	UA-30PMF-LD7B<u>XX</u>* UA-30PMF-SD7B<u>XX</u>*	UA-30AFMM-LL7B<u>XX</u>** UA-30BFMM-SL7B<u>XX</u>**	UA-30BFM-SD7B<u>XX</u>** UA-30AFM-LD7B<u>XX</u>**

⬂ USB > Receptacle and Mating Pair

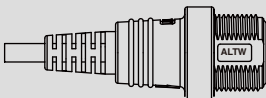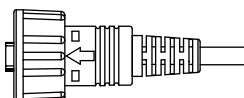| • **Female Connector** (Housing) • **Female Contacts** • **Quick Lock** • **Speed of Jack:** **USB Type C 3.1**	**Receptacle** ┈┈┈▶	**Overmolded with Cable (Double-Ended)** ┈┈┈┈┈┈┈┈┈▶ 1st End 2nd End ② Choose the data transfer rate **(G1)** 3.1 Gen 1 or **(G2)** 3.1 Gen 2 *<u>XX</u>: Choose the cable length from 01~03m	**Field Installable**
Speed of Plug	Female Connector **(F)** Female Contacts **(F)**	Male Connector **(M)** Male Contacts **(M)**	Male Connector **(M)** Male Contacts **(M)**
1st End: USB Type C 3.1 Gen 1/Gen 2 2nd End: USB Type C 3.1 Gen 1/Gen 2	UC-31PFFP-QS8001	UC- ② AMM-QE8C<u>XX</u>* UC- ② AMM-QF8C<u>XX</u>*	-
1st End: USB Type C 2.0 2nd End: USB Type A 2.0	-	UC-20AMM-QA8A<u>XX</u>*	-
1st End: USB Type C 3.0 2nd End: USB Type B 2.0	-	UC-30AMM-QD8B<u>XX</u>*	-

【Note】 Design and specification are subject to change without notice.
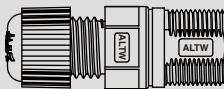
⬊ **Mini USB > In-line**
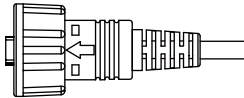
• **Male Connector** (Housing) • **Female Contacts** • **Screw Thread** • **Standard Size** (5/8"-27 UNS)	**Overmolded with Cable** ┈┈>	**Overmolded with Cable**	**Field Installable**
	  ** Choose the cable length from 01~04m	 ** Choose the cable length from 01~04m	
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
Mini USB Type B 2.0	NUB-20AMFM-SL7AXX**	NUB-20AFMM-SL7AXX**	-
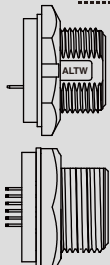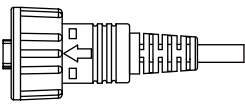
⬊ **Mini USB > In-line**

• **Male Connector** (Housing) • **Female Contacts** • **Screw Thread** • **Standard Size** (5/8"-27 UNS)	**Field Installable** ┈┈>	**Overmolded with Cable**	**Field Installable**
		  ** Choose the cable length from 01~04m	
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
Mini USB Type B 2.0	NUB-20BMFA-SL7001	NUB-20AFMM-SL7AXX**	-

↘ Mini USB > Receptacle and Mating Pair

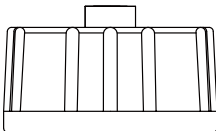| • Male Connector (Housing) • Female Contacts • Screw Thread • Standard Size (5/8"-27 UNS)	Receptacle ⟶	Overmolded with Cable ⟶ ** Choose the cable length from 01~04m	Field Installable
Speed	Male Connector **(M)** Female Contacts **(F)**	Female Connector **(F)** Male Contacts **(M)**	Female Connector **(F)** Male Contacts **(M)**
Mini USB Type B 2.0	NUB-20PMFP-SC7001 NUB-20PMFR-SC7001	NUB-20AFMM-SL7A<u>XX</u>**	-

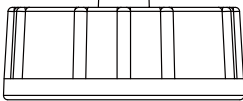【Note】Design and specification are subject to change without notice.

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Unmated or Mated

Accessories

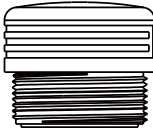## ↘ USB A/B Type > Waterproof Cap

Customized – Upon Request

* **USB Screw (Mating Pair: Male)**

2 Points Lock Bayonet
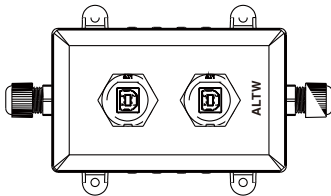
* **USB Screw (Mating Pair: Female)**

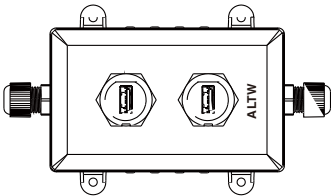**6** More to choose: None **(A)** / With Chain (B) / With Rubber Lead **(C)** / With Fish Line **(D)**

Type	Mating Pair		Mating Style	Mating Pair (Gender)	P/N
USB 2.0 Type A USB 2.0 Type B USB 3.0 Type A	Receptacle		Screw Thread	Male	CAP-WACMSP**6**1
			2 Points Lock Bayonet (1"20 UNEF)	Male	CAP-WADMLP**6**1
	Receptacle and Overmolded with Cable		Screw Thread	Male	CAP-WACMSMA1
			2 Points Lock Bayonet (1"20 UNEF)	Male	CAP-WADMLMA1
	Overmolded with Cable		Screw Thread	Female	CAP-WUSFSCC1
USB 2.0 Type A	Receptacle		2 Points Lock Bayonet (13/16"-28 UNS)	Male	CAP-WCCMLMA1 CAP-WCCMLPB1 CAP-WCCMLPC1

↘ USB A/B Type > Box

Customized – Upon Request

USB Type B 2.0

USB Type A 2.0

Type	Ports	P/N
USB Type A 2.0	1	BOX-USA11
	2	BOX-USA22
	4	BOX-USA44
USB Type B 2.0	1	BOX-USB11
	2	BOX-USB22
	4	BOX-USB44

Specification | Micro USB

Identifications	Micro USB: AB Type
Description	Receptacle
Current Rating	1pin & 5pin: 1.8A 2pin, 3pin & 4pin: 1A
Materials	Contacts: Copper Alloy, Gold Plated Connector Body (Housing): Nylon, Black Shell: Stainless, Gold Plated Inner Gascket: Silicone, Transparent Outside Gasket: Silicone, Transparent
Waterproof Rating	IP67/68
Temperature Range	-30°C ~ 85°C
Contact Resistance	≤30mΩ
Insulatuib Resistance	≥ 1000MΩ at 100Vdc
Durability	10,000 Cycles
More to Know	SMT Temperature & Time: 260°C/5Sec

【Note】 Design and specification are subject to change without notice.

IP 67 . 68
Unmated or Mated

Ordering Information | Micro USB

1 — 2 3 4 5 6 — 7 8 9 10

Specification

(MUC) Micro USB

Data Transfer Rate

(20) 2.0

Connector Body (Style)

> For Receptacle

(P) Front Fastened

Connector (Housing) Gender

(F) Female

Contact Gender

(F) Female (Jack)

Assemble Style

> For Receptacle

(R) 90° PCB Type

Mating Style

(J) For Joint

Backshell

> For Receptacle

(S) Square

Waterproof Rating

(70) IP67 (1M depth of water in 30min)

(8A) IP68 (1M depth of water in 24hrs)

(8B) IP68 (5M depth of water in 24hrs)

(8C) IP68 (10M depth of water in 3hrs)

More information

(01), (02)....

Without Cable: Different Versions

Physical Dimension | Micro USB
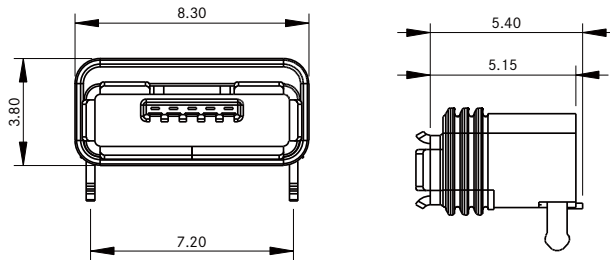
Unit: mm

Find Our Standard Products | Micro USB

⬊ Micro USB

Waterproof Rating	Part Number
IP67 (1M, 30mins)	MUC–20PFFR–JS7002
IP68 (1M, 24hrs)	MUC–20PFFR–JS8A02
IP68 (5M, 24hrs)	MUC–20PFFR–JS8B02
IP68 (10M, 3hrs)	MUC–20PFFR–JS8C02

【Note】 Design and specification are subject to change without notice.

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