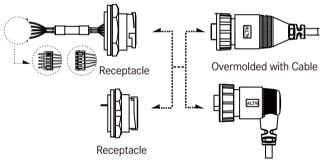
## **USB Connector**

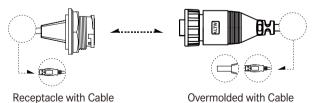


# **Range Overview**

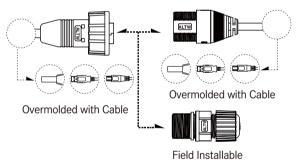


Overmolded with Cable

□ Receptacle with Cable to Overmolded with Cable



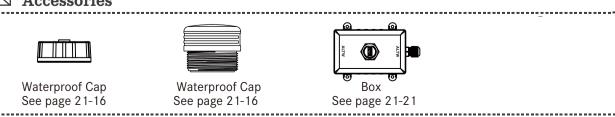
## 



#### 



### △ Accessories

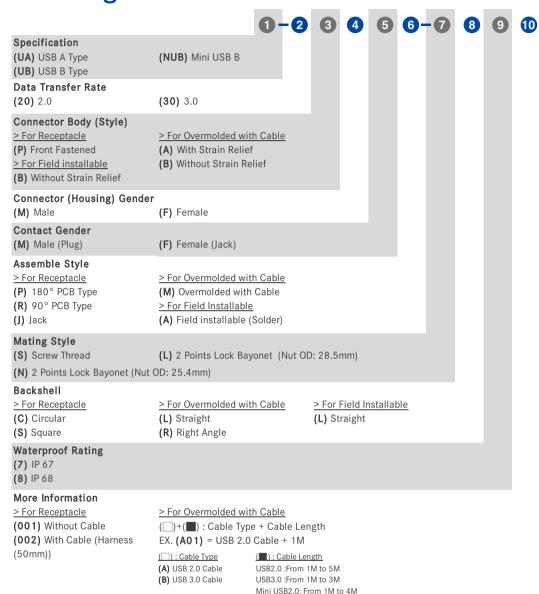


# **Specification**

Identifications	USB 3.0 A Type USB 2.0 A Type, USB 2.0 B Type Mini USB 2.0 B Type Micro USB: Available soon
Description	Receptacle Receptacle With Cable Overmolded with Cable Field Installable
Current Rating / Data	1.5A
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	$\geq 1000 m \Omega$ at DC500V
Breakdown Voltage	≥ AC500V / 1 minute
More to know	USB 2.0: Standard Cable Length: 01-05M USB 3.0: Standard Cable Length: 01-03M Mini USB: Standard Cable Length: 01-04M

<sup>\*</sup> Design and specification are subject to change without notice.

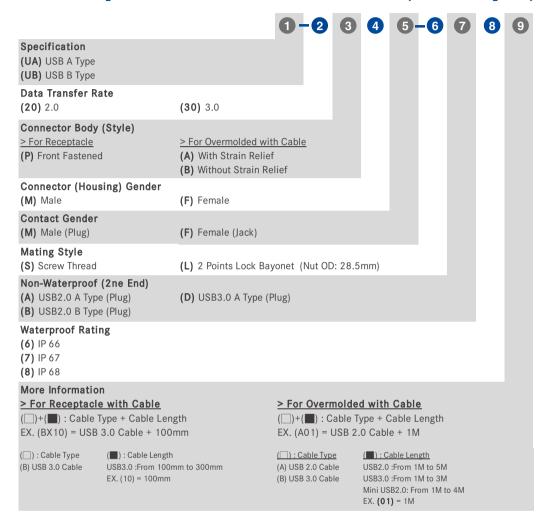
## **Ordering Information**



EX. (01) = 1M

## Ordering Information | Double-ended

ALTW waterproof connector to ALTW waterproof connector ALTW waterproof connector to Standard USB connector (None Waterproof)



<sup>\*</sup> Design and specification are subject to change without notice.

# **Physical Dimension**

### **∠** Receptacle

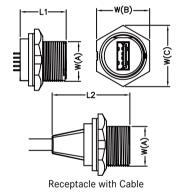
Panel Cut-Out



Type		Connector Gender	L	OD
Тур	e	(Housing)	M	ale
	Type A	Screw Thread	19.4	20.8
USB2.0	Type A	2 Points Lock Bayonet	23.6	25.6
USB2.0	Туре В	Screw Thread	19.4	20.8
		2 Points Lock Bayonet	23.6	25.6
USB3.0	Type A	Screw Thread	19.4	20.8
0363.0	Type A	2 Points Lock Bayonet	23.6	25.6
Mini USB	_	Screw Thread	14.8	15.6

<sup>\*</sup> Maximum Panel Thickness: USB: 4mm I Mini USB: 2.5mm

#### Connector Dimension

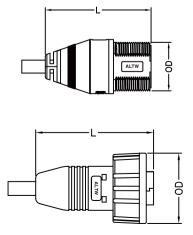


Type		Connector Gender	W(A)	W(B)	W(C)	L1	L2
тур	e	(Housing)			Male		
	Tuno A	Screw Thread	19.0	25.4	29.3	22.0	1
USB2.0	Type A	2 Points Lock Bayonet	23.2	28.5	32.9	20.3	ı
0362.0	Type B	Screw Thread	19.0	25.4	29.3	22.0	ı
	туре в	2 Points Lock Bayonet	23.2	28.5	32.9	20.3	1
LICDAO	T. (20 0 A	Screw Thread	19.0	25.4	29.3	-	37.2
USB3.0 Type A	2 Points Lock Bayonet	23.2	28.5	32.9	1	37.5	
Mini USB	-	Screw Thread	14.5	20.6	23.5	15.0	-

<sup>\*</sup> USB: Screw I Middle Size (13/16"-28 UNS)

Dimensions are shown in millimeters

### **∠** Overmolded with Cable



Туре		Connector Gender	L	-	0	D
		(Housing)	Female	Male	Female	Male
	Type A	Screw Thread	42.6	45.0	25.4	20.6
USB2.0	Type A	2 Points Lock Bayonet	73.3	-	28.5	-
0362.0	Type B	Screw Thread	42.6	45.0	25.4	20.6
	туре в	2 Points Lock Bayonet	73.3	ı	28.5	-
USB3.0	Tuno A	Screw Thread	42.6	45.0	42.6	20.6
0363.0	Type A	2 Points Lock Bayonet	75.0	1	28.5	-
Mini USB	-	Screw Thread	42.6	45.0	20.0	15.45
# 110D 0		0: (40 /4/   00    1110		Dimen	sions are shown	in millimeters

<sup>\*</sup> USB: Screw I Middle Size (13/16"-28 UNS)

2 Points Lock Bayonet I Large Size (1"20 UNEF)

<sup>\*</sup> USB: Screw I Middle Size (13/16"-28 UNS)

<sup>2</sup> Points Lock Bayonet I Large Size (1"20 UNEF)

<sup>\*</sup> Mini USB: Screw I Standard Size (5/8"-27 UNS)

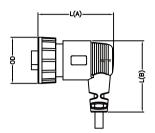
Dimensions are shown in millimeters

<sup>2</sup> Points Lock Bayonet I Large Size (1"20 UNEF)

<sup>\*</sup>Mini USB: Screw I Standard Size (5/8"-27 UNS)

<sup>\*</sup>Mini USB: Screw I Standard Size (5/8"-27 UNS)

#### ○ Overmolded with Cable



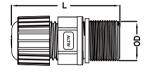
Туре		Connector Gender	L(	A)	L(B)		OD	
		(Housing)	Female	Male	Female	Male	Female	Male
	USB2.0 Type A Type B	Screw Thread	-	-	-	-	-	-
LICESO		2 Points Lock Bayonet	46.8	-	44.1	1	28.5	1
0362.0		Screw Thread	-	-	-	-	-	-
		2 Points Lock Bayonet	46.8	-	44.1	-	28.5	-

<sup>\*</sup> USB: Screw I Middle Size (13/16"-28 UNS)

Dimensions are shown in millimeters

2 Points Lock Bayonet I Large Size (1"20 UNEF)

#### □ Field Installable



Туре		Connector Gender		L	С	)D
		(Housing)	Female	Male	Female	Male
	Tuno A	Screw Thread	-	56.0	-	20.6
USB2.0	Type A	2 Points Lock Bayonet	-	-	-	-
0362.0		Screw Thread	1	56.0	-	20.6
Type B	2 Points Lock Bayonet	-	-	-	_	
Mini USB	-	Screw Thread	-	45.0	-	15.45

<sup>\*</sup> USB: Screw I Middle Size (13/16"-28 UNS)

2 Points Lock Bayonet I Large Size (1"20 UNEF)

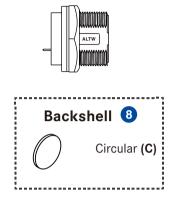
Dimensions are shown in millimeters

<sup>\*</sup>Mini USB: Screw I Standard Size (5/8"-27 UNS)

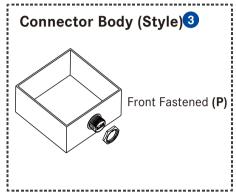
<sup>\*</sup> Design and specification are subject to change without notice.

## **Product Features**

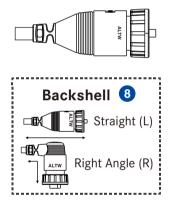
### **∠** Receptacle



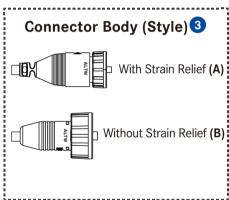




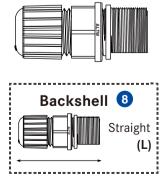
#### □ Overmolded with Cable



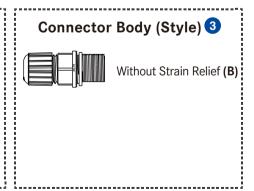




#### □ Field Installable

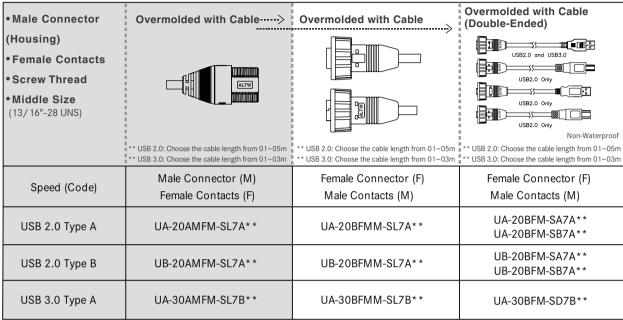






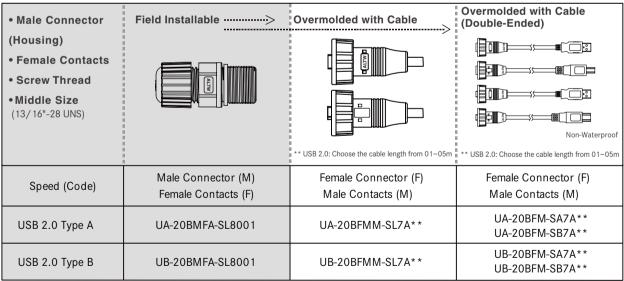
## **Find Our Standard Products**

#### 



Refer to P4-4 for ordering information.

#### ∨ IJSB > In-line



<sup>\*</sup> Refer to P4-4 for ordering information.

<sup>\*</sup> Design and specification are subject to change without notice.

# USB Connector I Find Our Standard Products

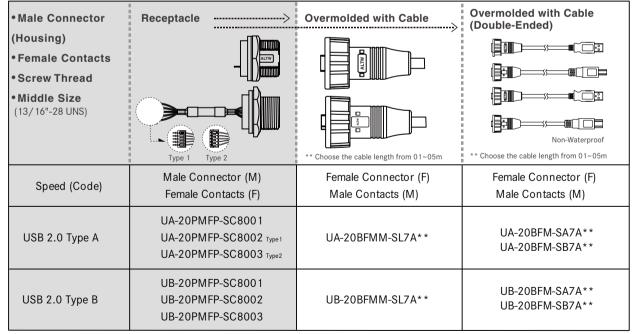
In-line I Receptacle and Mating Pair 2 Points Lock Bayonet I Screw Thread Middle Size IP 67.68 9

#### USB > In-line

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

<sup>\*</sup> Refer to P4-4 for ordering information.

### 

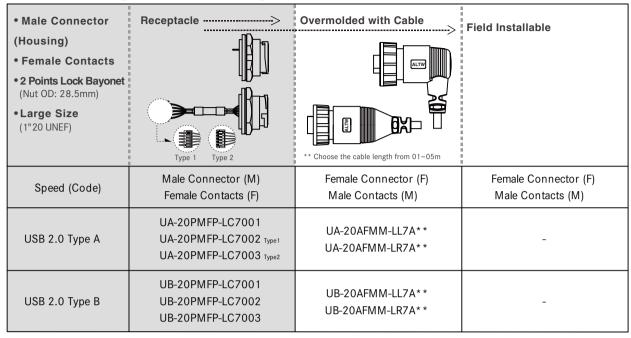


<sup>\*</sup> Refer to P4-4 for ordering information.

<sup>\*</sup> Refer to P4-4 for ordering information.

Receptacle and Mating Pair 2 Points Lock Bayonet Large Size

## □ USB > Receptacle and Mating Pair



## □ USB > Receptacle and Mating Pair

Male Connector  (Heusing)	Receptacle	Overmolded with Cable	Field Installable
(Housing) • Female Contacts • 2 Points Lock Bayonet (Nut OD: 25.4mm) • Large Size			
(13/16-28 UN)		** Choose the cable length from 01~05m	
Speed (Code)	Male Connector (M) Female Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F) Male Contacts (M)
USB 2.0 Type A	UA-20PMFJ-NC7001	UA-20BFMM-NL7A**	-

# USB Connector I Find Our Standard Products USB

Receptacle with Overmolded Cable and Mating Pair 2 Points Lock Bayonet Large Size



## □ USB > Receptacle with Overmolded Cable and Mating Pair

<ul><li>Male Connector</li><li>(Housing)</li><li>Female Contacts</li><li>Screw Thread</li></ul>	Receptacle with Cable> (Double-Ended)	······>	Overmolded with Cable (Double-Ended)
• 2 Points Lock Bayonet (Nut OD: 28.5mm) • Large Size (1"20 UNEF)	Non-Waterproof  ** USB 3.0: Choose the cable length from 100~300mm		*** USB 3.0: Choose the cable length from 01~03m
Speed (Code)	Male Connector (M)	Female Connector (F)	Female Connector (F)
	Female Contacts (F)	Male Contacts (M)	Male Contacts (M)
USB 3.0 Type A	UA-30PMF-LD7B**	UA-30AFMM-LL7BXX	UA-30BFM-SD7B**
	UA-30PMF-SD7B**	UA-30BFMM-SL7BXX	UA-30AFM-LD7B**

<sup>\*</sup> Refer to P4-4 for ordering information.

<sup>\*</sup> Refer to P4-4 for ordering information.

In-line I Receptacle and Mating Pair Screw Thread Standard Size

### → 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 (Code)	Male Connector (M) Female Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F) Male Contacts (M)
Mini USB 2.0 Type B	NUB-20AMFM-SL7A**	NUB-20AFMM-SL7A**	-

## → Mini USB > In-line

Male Connector     (Housing)     Female Contacts	Field Installable	Overmolded with Cable	Field Installable
• Screw Thread • Standard Size	AIW AIW		
(5/8"-27 UNS)			
	** Choose the cable length from 01~04m	** Choose the cable length from 01~04m	
Speed (Code)	Male Connector (M) Female Contacts (F)	Female Connector (F) Male Contacts (M)	Female Connector (F) Male Contacts (M)
Mini USB 2.0 Type B	NUB-20AMFM-SL7A**	NUB-20AFMM-SL7A**	-

## 

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