





CATALOGUE

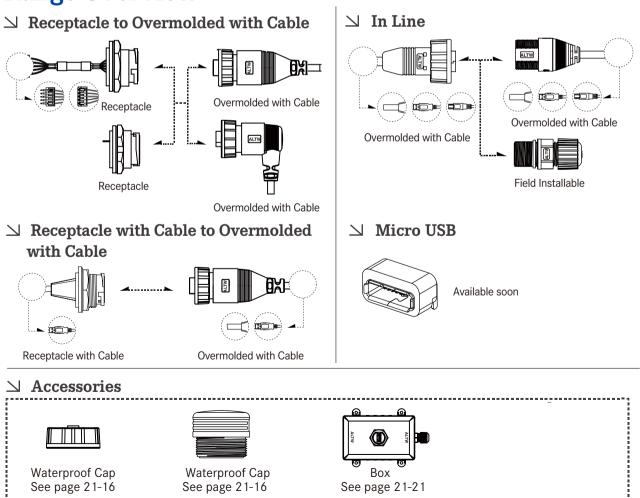
http://www.amphenolltw.com



USB Connector



Range Overview



4-1 Amphenol LTW Technology Co., Ltd.

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	\leq 30m Ω
Insulation Resistance	\geq 1000m Ω at DC500V
Breakdown Voltage	\geq 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

* Design and specification are subject to change without notice.



Ordering Information

_								
	0-6	2 3	4	5	6-	-7	8	9
Specification (UA) USB A Type (UB) USB B Type Data Transfer Rate	(NUB) Mini USB B							
(20) 2.0	(30) 3.0							
Connector Body (Style) > For Receptacle (P) Front Fastened > For Field installable (B) Without Strain Relief	 For Overmolded with Cable (A) With Strain Relief (B) Without Strain Relief 							
Connector (Housing) Gende (M) Male	er (F) Female							
Contact Gender (M) Male (Plug)	(F) Female (Jack)							
Assemble Style <u>> For Receptacle</u> (P) 180° PCB Type (R) 90° PCB Type (J) Jack	 For Overmolded with Cable (M) Overmolded with Cable For Field Installable (A) Field installable (Solder) 							
Mating Style (S) Screw Thread	(L) 2 Points Lock Bayonet (Nut	OD: 28.5	ōmm)					
(N) 2 Points Lock Bayonet (Nu	t OD: 25.4mm)							
Backshell For Receptacle (C) Circular (S) Square	> For Overmolded with Cable (L) Straight (R) Right Angle	-	<u>Field li</u> traight		ole			
Waterproof Rating (7) IP 67 (8) IP 68								
More Information <u>> For Receptacle</u> (001) Without Cable (002) With Cable (Harness	> For Overmolded with Cable (□)+(■) : Cable Type + Cable L EX. (A01) = USB 2.0 Cable + 11	0						
(50mm))	(□): Cable Type (□): Cable (A) USB 2.0 Cable USB2.0: Froi (B) USB 3.0 Cable USB3.0: Froi	m 1M to 5M m 1M to 3M						

USB3.0 :From 1M to 3M Mini USB2.0: From 1M to 4M EX. (01) = 1M

Ordering Information | 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 (UA) USB A Type (UB) USB B Type								
Data Transfer Rate (20) 2.0	(30) 3.0							
Connector Body (Style) <u>> For Receptacle</u> (P) Front Fastened	 <u>> For Overmolded wit</u> (A) With Strain Relief (B) Without Strain Re 	f						
Connector (Housing) Gender (M) Male	(F) Female							
Contact Gender (M) Male (Plug)	(F) Female (Jack)							
Mating Style (S) Screw Thread	(L) 2 Points Lock Bay	yonet (Nut OD): 28.5mi	m)				
Non-Waterproof (2ne End) (A) USB2.0 A Type (Plug) (B) USB2.0 B Type (Plug)	(D) USB3.0 A Type (Plug)							
Waterproof Rating (6) IP 66 (7) IP 67 (8) IP 68								
(□)+(■) : Cable Type + Cable Length (□			nolded able Type JSB 2.0	e + Cab	le Length			
(□) : Cable Type (B) USB 3.0 Cable USB 3.0 Cable EX. (X10) = 100mm		([]) : Cable Typ (A) USB 2.0 Cab (B) USB 3.0 Cab	le US le US M	SB3.0 :Fro	om 1M to 5M om 1M to 3M 0: From 1M t	1		

* Design and specification are subject to change without notice.



Physical Dimension

∖ Receptacle

Panel Cut-Out



Tur		Connector Gender	L	OD
Тур)e	(Housing)	Ma	ale
	Type A	Screw Thread	19.4	20.8
USB2.0	туре А	2 Points Lock Bayonet	23.6	25.6
0362.0	Type B	Screw Thread	19.4	20.8
	туре в	2 Points Lock Bayonet	23.6	25.6
USB3.0	Type A	Screw Thread	19.4	20.8
0303.0	туре А	2 Points Lock Bayonet	23.6	25.6
Mini USB	-	Screw Thread	14.8	15.6
	-	Screw Thread		15.6

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

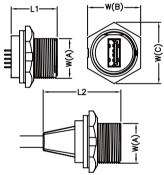
Dimensions are shown in millimeters

* 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)

Connector Dimension



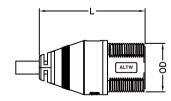
Receptacle with Cable

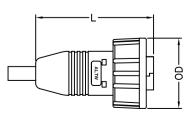
Turp	0	Connector Gender	W(A)	W(B)	W(C)	L1	L2
Тур	e	(Housing)			Male		
		Screw Thread	19.0	25.4	29.3	22.0	-
USB2.0	Туре А	2 Points Lock Bayonet	23.2	28.5	32.9	20.3	-
0302.0	Turne D	Screw Thread	19.0	25.4	29.3	22.0	-
	Туре В	2 Points Lock Bayonet	23.2	28.5	32.9	20.3	-
		Screw Thread	19.0	25.4	29.3	-	37.2
USB3.0 Type A	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 U Dimensions are shown in millimeters

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

rightarrow Overmolded with Cable





Туре		Connector Gender	L	_	0	D
Тур	e	(Housing)	Female	Male	Female	Male
		Screw Thread	42.6	45.0	25.4	20.6
USB2.0	Туре А	2 Points Lock Bayonet	73.3	-	28.5	-
0302.0	Turne D	Screw Thread	42.6	45.0	25.4	20.6
	Туре В	2 Points Lock Bayonet	73.3	-	28.5	-
USB3.0	Type A	Screw Thread	42.6	45.0	42.6	20.6
0303.0	туре А	2 Points Lock Bayonet	75.0	-	28.5	-
Mini USB	-	Screw Thread	42.6	45.0	20.0	15.45
* LISB. Soro	w I Middl	o Sizo (13/16" 28 LINS)	Dimen	isions are shown	in millimeters

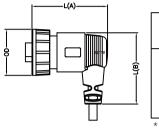
USB: Screw I Middle Size (13/16"-28 UNS)

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

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

4-5 Amphenol LTW Technology Co., Ltd.

rightarrow Overmolded with Cable



	Typ	Type Connector Gender		L(A)	L(B)	OD	
Τl	тур	e	(Housing)	Female	Male	Female	Male	Female	Male
[Screw Thread	-	-	-	-	-	-
(e) [USB2.0	Туре А	2 Points Lock Bayonet	46.8	-	44.1	-	28.5	-
	Туре В		Screw Thread	-	-	-	-	-	-
-		2 Points Lock Bayonet	46.8	-	44.1	-	28.5	-	

* USB: Screw I Middle Size (13/16"-28 UNS) 2 Points Lock Bayonet I Large Size (1"20 UNEF) Dimensions are shown in millimeters

□ Field Installable

L	
	-00

Туре		Connector Gender		L	C	D
		(Housing)	Female	Male	Female	Male
	Turne A	Screw Thread	_	56.0	-	20.6
USB2.0	Туре А	2 Points Lock Bayonet	-	-	-	-
0362.0	Tuno P	Screw Thread	-	56.0	-	20.6
Туре В	2 Points Lock Bayonet	-	-	-	-	
Mini USB	-	Screw Thread	-	45.0	-	15.45

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

Dimensions are shown in millimeters

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

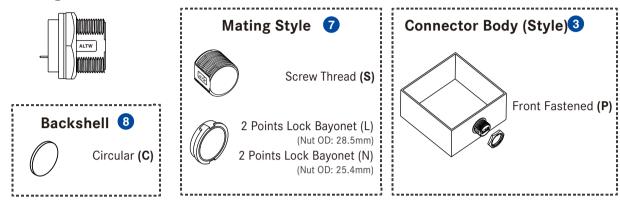
*Mini USB: Screw I Standard Size (5/8"-27 UNS)

* Design and specification are subject to change without notice.

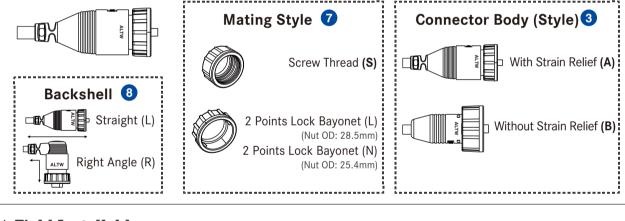


Product Features

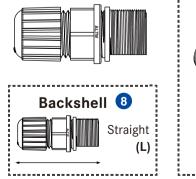
∖ Receptacle

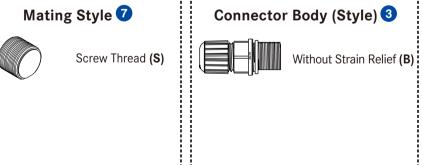


rightarrow Overmolded with Cable



↘ Field Installable







Find Our Standard Products

∠ USB > In-line

Male Connector	Overmolded with Cable>	Overmolded with Cable	Overmolded with Cable (Double-Ended)	
(Housing) • Female Contacts • Screw Thread • Middle Size (13/16"-28 UNS)			USB2.0 only USB2.0 only	
	** 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-20AMFM-SL7A**	UA-20BFMM-SL7A**	UA-20BFM-SA7A** UA-20BFM-SB7A**	
USB 2.0 Type B	UB-20AMFM-SL7A**	UB-20BFMM-SL7A**	UB-20BFM-SA7A** UB-20BFM-SB7A**	
USB 3.0 Type A	UA-30AMFM-SL7B**	UA-30BFMM-SL7B**	UA-30BFM-SD7B**	
			* Refer to P4-4 for ordering information.	

∠ USB > In-line

Male Connector (Housing) Female Contacts Screw Thread Middle Size (13/16"-28 UNS)	Field Installable	Over we alded with Oable	Overmolded with Cable (Double-Ended)
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-20BMFA-SL8001	UA-20BFMM-SL7A**	UA-20BFM-SA7A** UA-20BFM-SB7A**
USB 2.0 Type B	UB-20BMFA-SL8001	UB-20BFMM-SL7A**	UB-20BFM-SA7A** UB-20BFM-SB7A**

* Refer to P4-4 for ordering information.

USB Connector I Find Our Standard Products USB

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



\square 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		
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**	-

* Refer to P4-4 for ordering information.

* Refer to P4-4 for ordering information.

↘ USB > Receptacle and Mating Pair

Male Connector	Receptacle>	Overmolded with Cable	Overmolded with Cable (Double-Ended)
(Housing) • Female Contacts • Screw Thread • Middle Size			
(13/16"-28 UNS)	Type 1 Type 2	** Choose the cable length from 01~05m	Non-Waterproof ** 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-20PMFP-SC8001 UA-20PMFP-SC8002 _{Type1} UA-20PMFP-SC8003 _{Type2}	UA-20BFMM-SL7A**	UA-20BFM-SA7A** UA-20BFM-SB7A**
USB 2.0 Type B	UB-20PMFP-SC8001 UB-20PMFP-SC8002 UB-20PMFP-SC8003	UB-20BFMM-SL7A**	UB-20BFM-SA7A** UB-20BFM-SB7A**

* Refer to P4-4 for ordering information.

USB Connector I Find Our Standard Products USB Receptacle and Mating Pair 2 Points Lock Bayonet Large Size

Male Connector (Housing) Female Contacts 2 Points Lock Bayonet (Nut OD: 28.5mm) Large Size (1"20 UNEF)	Receptacle>	Overmolded with Cable	Field Installable
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-20PMFP-LC7001 UA-20PMFP-LC7002 _{Type1} UA-20PMFP-LC7003 _{Type2}	UA-20AFMM-LL7A** UA-20AFMM-LR7A**	-
USB 2.0 Type B	UB-20PMFP-LC7001 UB-20PMFP-LC7002 UB-20PMFP-LC7003	UB-20AFMM-LL7A** UB-20AFMM-LR7A**	-

∠ USB > Receptacle and Mating Pair

↘ USB > Receptacle and Mating Pair

 Male Connector (Housing) Female Contacts 2 Points Lock Bayonet (Nut OD: 25.4mm) Large Size (1"20 UNEF) 	Receptacle>	Overmolded with Cable	Field Installable
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 > Receptacle with Overmolded Cable and Mating Pair

• Male Connector (Housing) • Female Contacts • Screw Thread	Receptacle with Cable> (Double-Ended)	>	Overmolded with Cable (Double-Ended) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
• 2 Points Lock Bayonet (Nut OD: 28.5mm) • Large Size (1"20 UNEF)	Non-Waterproof		** 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-LD7A**

* Refer to P4-4 for ordering information.

* Refer to P4-4 for ordering information.

 Male Connector (Housing) 	Overmolded with Cable>	Overmolded with Cable	Field Installable
 Female Contacts Screw Thread 			
• Standard Size (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**	_

↘ Mini USB > In-line

↘ Mini USB > In-line

• Male Connector (Housing)	Field Installable>	Overmolded with Cable	Field Installable
• Female Contacts • Screw Thread • Standard Size (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**	-

ightarrow Mini USB > Receptacle and Mating Pair

Male Connector	Receptacle>	Overmolded with Cable	Field Installable
(Housing) • Female Contacts • Screw Thread • Standard Size (5/8"-27 UNS)		** 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**	-

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