Product Range Overview

Sub-Series Name	USB Type A	USB Type B	Micro USB Swift	Micro USB Swift-MU
Mating Style	Screw Thread & 2 Points Lock	Screw Thread & 2 Points Lock	-	Snap-in
Plastic Version	√	√	-	✓
Metal Version	✓	✓	✓	-
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Transmission Rate	USB 2.0 USB 3.2 Gen 1	USB 2.0 USB 3.2 Gen 1	USB 2.0	USB 2.0
Operating Voltage (AC/DC)	30V	30V	30V AC 5V DC	30V AC 5V DC
Nominal Current	USB 2.0: 1.5A USB 3.2 Gen 1: 1A	USB 2.0: 1.5A	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A
Operating Temperature	M-PPE: -40° ABS: -40° Receptacle	40°C ~ 105°C)°C ~ 105°C C ~ 105°C With Cable: -20°C ~ 85°C °C ~ 85°C rviceable/Installable:	-30°C~80°C SMD: 260°C / 5sec	-40°C~80°C
Fasten Style	Front	Front	-	-
Receptacle	✓	✓	✓	-
Overmolded Receptacle	✓	✓	-	-
Overmolded Cable	✓	✓	-	✓
Field Serviceable/Installable	✓	✓	-	-
Applicable Wire Gauge	28AWG*1P - (0.08mm²) -	+ 24AWG*2C + (0.25mm²)	-	28AWG (0.08mm²)
Mating Cycles (Pin Contact)	1,500 Cycles	1,500 Cycles	10,000 Cycles	10,000 Cycles
IP Rating	Receptacle, Receptalce W Overmolded With Cable, Fi IP67 (N	eld Serviceable/Installable:	IP67 (Unmated, 1M / 30mins) IP68 (Unmated, 1M / 24h) IP68 (Unmated, 5M / 24h) IP68 (Unmated, 10M / 3h)	IP67 (Mated)
Salt Spray (Connector, Mated	l) 48h	48h	48h	48h
Flammability	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0
Vibration Resistant		Frequency Range 10 ~ 55	Hz / Amplitude 1.52mm	
EMI Option	✓	✓	✓	✓
ROHS 2.0 Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Accessories	✓	✓	-	-
Self-closing Cap	✓	✓	-	-

Product Range Overview

Sub-Series Name	Mini USB Type B	USB Type C Swift-LP	USB Type C Swift-LA	USB Type C Swift-GG	USB Type C Swift-XL
Mating Style	Screw Thread	-	Snap-in	Screw Thread	Push Lock
Plastic Version	✓	-	✓	✓	✓
Metal Version	-	✓	-	✓	-
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Transmission Rate	USB 2.0	USB 3.2 Gen 2	USB 2.0 USB 3.2 Gen 1	USB 3.2 Gen 1 / Gen 2	USB 3.2 Gen 1
Operating Voltage (AC/DC)	30V	30V DC	30V DC	30V DC	30V DC
Nominal Current	USB 2.0: 1.5A	Up To 5A	Up To 3A	Up To 5A	Up To 3A
Operating Temperature	Receptacle: Nylon+GF: -40°C ~ 105°C M-PPE: -40°C ~ 105°C ABS: -40°C ~ 105°C Receptacle With Cable: Nylon+GF: -20°C ~ 85°C ABS: -20°C ~ 85°C Overmolded, Field Serviceable/Installable: -20°C ~ 85°C	-40°C ~ 85°C SMD: 260°C / 5sec		-40°C ~ 85°C -20°C ~ 80°C	Overmolded: -20°C ~ 85°C
Fasten Style	Front	-	-	Front	-
Receptacle	✓	✓	✓	✓	-
Overmolded Receptacle	✓	-	-	-	-
Overmolded Cable	✓	-	✓	✓	✓
Field Serviceable/Installable	✓	-	-	-	-
Applicable Wire Gauge	28AWG*1P + 28AWG*3C (0.08mm²)	-		1*1P + 24AWG*1C + nm²) + (0.25mm²) +	
Mating Cycles (Pin Contact)	5,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
IP Rating	Receptacle, Receptalce With Cable: IP68 (Unmated) Overmolded With Cable, Field Serviceable/Installable: IP67 (Mated)	IP67 (Unmated) IP68 (Unmated)	Receptacle: IP68 (Unmated) Overmolded: IP67 (Mated)	Receptacle: IP67 (Unmated) Overmolded: IP67 (Mated)	IP68 (Mated, 1M / 24h)
Salt Spray (Connector, Mated)	48h	48h	48h	48h	48h
Flammability	UL 94VHB	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0
Vibration Resistant	F	requency Range 10~!	55Hz / Amplitude 1.	52mm	
EMI Option	√	✓	✓	✓	✓
ROHS 2.0 Compliant	√	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓
Accessories	✓	-	-	✓	✓
Self-closing Cap	-	-	-	-	-

Size				e Size	
Specification			Тур		
Rated Voltage (AC/DC) Nominal Current		1.50		OV 1.54	1 4 4
Data Transfer Rate		1.5A 2.0	1A 3.2 Gen 1	1.5A 2.0	1A 3.2 Gen 1
Plastic / Metal			stic		etal
Receptacle, Circular Flange, FRON	T Fastened Nut, IP68 (Unmated)	110	3110	I WIC	- Cui
Connector/Contact Gender: Male	Connector Female Contact				
Nut Torque Value: 3.5 ~ 5 kgf.cm	Recommended Panel Thickness: with c		p: 4.0mm	·	
	Solder Type Without Cable	UA-20PMFS- SC8001*	-	USA-20PMF S - SC8001*	-
29.3	180° PCB Type	UA-20PMFP-	UA-30PMFP-	USA-20PMFP-	USA-30PMFP-
	Without Cable	SC8001	SC8001*	SC8001*	SC8001*
	180° PCB Type (Type 1)	UA-20PMFP-	UA-30PMFP-	USA-20PMFP-	USA-30PMF P -
	With Wire And Housing (Press Fit Pin, Harness: 50mm)	SC8002	SC8002*	SC8002*	SC8002*
	180° PCB Type (Type 2)	UA-20PMFP-	UA-30PMFP-	USA-20PMFP-	USA-30PMFP-
Type 1 Type 2	With Wire And Housing (Jack, Harness: 50mm)	SC8003	SC8003*	SC8003*	SC8003*
Recentacle with Cable Circular Ba	ickshell, FRONT Fastened Nut, IP67 (Unm	Lated)			
	Connector Female Contact With Plug	acca,			
Cable Length: (15) 150mm ~ (30) 300mm				
22.0	PVC Jacket	UA-20PMFL-	UA-30PMFL-	USA-20PMFL-	USA-30PMFL-
29.3 20.6	Non-waterproof	SC7A10*	SC7B10	SC7A10*	SC7B 10*
STRAIGHT Overweeded Coble Ass	Danieli, Fran Cabla Fad Wish Charles Daliaf	IDC7 (Masterd)			
Connector/Contact Gender: Male	embly, Free Cable End, With Strain Relief Connector Female Contact	, IP67 (Mated)			
	M ~ (05) 5M, USB 3.2 Gen 1: (01) 1M ~ (0	3) 3M			
45.0		LIA 20AMENA	11A 20AN4EN4	USA-20AMFM-	LICA 20ANAENA
23	PVC Jacket	UA-20AMFM- SL7A10	UA-30AMFM- SL7B10	USA-2UAMFM- SL7A10*	USA-30AMFM- SL7B 10 *
	1				
STRAIGHT, Overmolded Double-E Connector/Contact Gender: Male	•				
	0.5M ~ (005) 5M, USB 3.2 Gen 1: (A05) 0.	.5M ~ (003) 3M			
45.0	PVC Jacket	UA20ML-UAML-	UA30ML-UAML-	USA20ML-UAML-	USA30ML-USAML-
33.0	IP67 (Mated)	SA10*	SB10*	SA10*	SB10*
45.0					
33.0	PVC Jacket Non-waterproof	UA20ML-NAML- SA 10	UA30ML-NAML- SB 10	USA20ML-NAML- SA①*	USA30ML-NAML- SB10*
Type A45.0					
33.0	PVC Jacket Non-waterproof	UA20ML-NBML- SA 10	UA30ML-NBML- SB 100 *	USA20ML-NBML- SA10*	USA30ML-NBML- SB10*
Type B	<u> </u>		28.00	SATO	3000
Field Serviceable/Installable, STRA Connector/Contact Gender: Male	AIGHT, Without Strain Relief, IP68 (Mated)			
•	kgf.cm Recommended Cable O.D.: 5.0	~ 10.8mm			
56.0 (Ref.)					
	Solder Type	UA-20BMF A - SL8001	UA-30BMF A - SL8001*	USA-20BMF A - SL8001*	USA-30BMF A - SL8001*
		320001	313301	320001	310001
•	sembly, Free Cable End, Without Strain Re	elief, IP67 (Mated)			
Connector/Contact Gender: Fema Cable Length: USB 2.0: (01) 1	le Connector Male Contact M ~ (05) 5M, USB 3.2 Gen 1: (01) 1M ~ (0	3) 3M			
42.6	(03) 314, 038 3.2 001 1. (01) 1141 (0				
4	PVC Jacket	UA-20BFMM-	UA-30BFMM-	USA-20BFMM-	USA-30BFMM-
		SL7A 10	SL7B10	SL7A	SL7B10*
STRAIGHT-TO-STRAIGHT, Overmo	olded Double-Ended Cable Assembly				
Connector/Contact Gender: Fema	le Connector Male Contact				
-	0.5M ~ (005) 5M, USB 3.2 Gen 1: (A05) 0.	.5M ~ (003) 3M			ı
42.6	PVC Jacket	UA20FL-UAFL-	UA30FL-UAFL-	USA20FL-UAFL-	USA30FL-USAFL-
	IP67 (Mated)	SA10	SB10*	SA10*	SB 10 *
42.6	DVC lacket	UA20FL-NAML-	UA30FL-NAML-	USA20FL-NAML-	USA30FL-NAML-
	PVC Jacket Non-waterproof Type A	SA10	SB10	SA10	SB10*
Type A					
\$ 12.7 4 E S	PVC Jacket Non-waterproof Type B	UA20FL-NBML- SA	UA30FL-NBML- SB10*	USA20FL-NBML- SA10*	USA30FL-NBML- SB10*
Type B	Treat-waterproof Type B	SAW	28	SATU"	2R.M.

^{*} Upon Request

	Middl	e Size		7
	Тур]
1.5A	1A	0V 1.5A	1A	+
2.0	3.2 Gen 1	2.0	3.2 Gen 1	1
Pla	stic	Me	etal	
UB-20PMFS- SC8001*	-	USB-20PMFS- SC8001*	-	
UB-20PMFP- SC8001	UB-30PMF P - SC8001*	USB-20PMFP- SC8001*	USB-30PMFP- SC8001*	<u> </u>
UB-20PMF P - SC8002	UB-30PMF P - SC8002*	USB-20PMFP- SC8002*	USB-30PMFP- SC8002*	
UB-20PMF P - SC8003	USB-30PMF P - SC8003	USB-20PMFP- SC8003*	USB-30PMF P - SC8003*	
-	-	-	-	M
				a t i n
UB-20AMFM- SL7A	UB-30AMFM- SL7B 10 *	USB-20AMFM- SL7A 1 0*	-	g
UB20ML-UBML- SA 10 *	-	USB20ML-USBML- SA (10 *	-	
UB20ML-NAML- SA 10	-	USB20ML-NAML- SA 10 *	-	
UB20ML-NBML- SA 10	-	USB20ML-NBML- SA 10 *	-	
UB-20BMF A - SL8001	UB-30BM FA - SL8001*	USB-20BMF A - SL8001*	USB-30BMF A - SL8001*	
UB-20BFMM- SL7A 10	UB-30BFMM- SL7B (1) *	USB-20BFMM- SL7A 10*	USB-30BFMM- SL7B 10 *	P
				a i r
UB20FL-UBFL- SA 10 *	-	USB20FL-USBFL- SA10*	-	
UB20FL-NAML- SA10	-	USB20FL-NAML- SA 10 *	-	
UB20FL-NBML- SA10	-	USB20FL-NBML- SA10 *	-	



(Unit: mm)

Size		Middle Size	e (Nut OD: 25.4	•	
Specification	Panel Cut Out 19.4±0.1			oe A	
Rated Voltage (AC/DC)		4.54		OV 454	1.0
Nominal Current	20.8	1.5A	1A	1.5A	1A
Data Transfer Rate	20.8±0.1	2.0	3.2 Gen 1	2.0	3.2 Gen 1
Plastic / Metal Receptacle, Circular Flange, FRONT Fastene	1	Pla	Stic	Me	etai
Connector/Contact Gender: Male Connecto Nut Torque Value: 3.5 ~ 5 kgf.cm Recomme	Female Contact	ith cap: 2.8mm, w	vithout cap: 4.0m	m	
Jack, IP67 (Unmated) Without Cable	22.9	UA-20PMFJ- NC7001	UA-30PMFJ- NC7001*	USA-20PMFJ- NC7001*	USA-30PMFJ- NC7001*
Solder Type, Without Cable Middle: IP67 (Unmated) Large: IP68 (Unmated)	22.0	UA-20PMFS- NC7001*	-	USA-20PMFS- NC7001*	-
180° PCB Type, IP67 (Unmated)		UA-20PMF P - NC7001*	-	USA-20PMF P - NC7001*	-
180° PCB Type, IP67 (Unmated) (Type 1) With Wire And Housing (Press Fit Pin, Harness: 50mm)		UA-20PMFP- NC7002*	-	USA-20PMFP- NC7002*	-
180° PCB Type, IP67 (Unmated) (Type 2) With Wire And Housing (Jack, Harness: 50mm)	Type 1 Type 2	UA-20PMF P - NC7003*	-	USA-20PMF P - NC7003*	-
Receptacle with Cable, Circular Backshell, Male Connector Female Contact O Cable Length: (15) 150mm ~ (30) 300mm			Cap) 2.8mm, (Wit	hout Cap) 4.0mm	
PVC Jacket Non-waterproof	16.9	UA-20PMFL- NC7A 10 *	UA-30PMFL- NC7B 10*	USA-20PMFL- NC7A 10*	USA-30PMFL- NC7B 10*
STRAIGHT, Overmolded Cable Assembly, Free Connector/Contact Gender: Female Connection Cable Length: USB 2.0: (01) 1M ~ (05) 5M	tor Male Contact Middle	e Size: Without St	•	e Size: With Strair	n Relief
PVC Jacket	42.6	UA-20BFMM- NL7A 10	UA-30BFMM- NL7B 10 *	USA-20BFMM- NL7A10*	USA-30BFMM- NL7B 10 *
RIGHT ANGLE, Overmolded Cable Assembly Connector/Contact Gender: Female Connec		ated)			
(05) 5 N Cable Length: USB 2.0: (01) 1 M ~ (05) 5 N		Size: With Strain I	Relief		
(05) 5 No. 1 Cable Length: USB 2.0: (01) 1 M ~ (05) 5 No. 1 PVC Jacket		Size: With Strain I	Relief -	-	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Doubl	N/A N/A N/A e-Ended Cable Assembly for Male Contact	Size: With Strain I ~ (03) 3M -	-	-	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Doubl Connector/Contact Gender: Female Connect Cable Length: USB 2.0: (A05) 0.5M ~ (00!)	N/A N/A N/A e-Ended Cable Assembly for Male Contact	Size: With Strain I ~ (03) 3M -	-	USA20FL-USAFL-NA 10 *	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Doubl Connector/Contact Gender: Female Connect O Cable Length: USB 2.0: (A05) 0.5M ~ (00!) PVC Jacket	N/A N/A e-Ended Cable Assembly for Male Contact 5) 5 M, USB 3.2 Gen 1: (A05)	Size: With Strain F ~ (03) 3M 5) 0.5M ~ (003) 3F	-	_	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Double Connector/Contact Gender: Female Connector Cable Length: USB 2.0: (A05) 0.5M ~ (009) PVC Jacket IP67 (Mated) PVC Jacket	N/A N/A N/A e-Ended Cable Assembly for Male Contact 5) 5M, USB 3.2 Gen 1: (A0) 42.6 Type A puble-Ended Cable Assem for Male Contact	Size: With Strain F ~ (03) 3M 5) 0.5M ~ (003) 3I UA20FL-UAFL- NA	- M -	NA 10 * USA20FL-NAML-	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Double Connector/Contact Gender: Female Connector Cable Length: USB 2.0: (A05) 0.5M ~ (00!) PVC Jacket IP67 (Mated) PVC Jacket Non-waterproof RIGHT ANGLE-TO-STRAIGHT, Overmolded Doconnector/Contact Gender: Female Connector	N/A N/A N/A e-Ended Cable Assembly for Male Contact 5) 5M, USB 3.2 Gen 1: (A0) 42.6 Type A puble-Ended Cable Assem for Male Contact	Size: With Strain F ~ (03) 3M 5) 0.5M ~ (003) 3I UA20FL-UAFL- NA	- M -	NA 10 * USA20FL-NAML-	-
PVC Jacket STRAIGHT-TO-STRAIGHT, Overmolded Double Connector/Contact Gender: Female Connection Cable Length: USB 2.0: (A05) 0.5M ~ (009) PVC Jacket IP67 (Mated) PVC Jacket Non-waterproof RIGHT ANGLE-TO-STRAIGHT, Overmolded Double Connector/Contact Gender: Female Connection Cable Length: USB 2.0: (A05) 0.5M ~ (009) PVC Jacket	N/A N/A e-Ended Cable Assembly for Male Contact 5) 5M, USB 3.2 Gen 1: (A09) 42.6 Type A puble-Ended Cable Assembly flype A souble-Ended Cable Assembly f	Size: With Strain F ~ (03) 3M 5) 0.5M ~ (003) 3I UA20FL-UAFL- NA	- M -	NA 10 * USA20FL-NAML-	- -

^{*} Upon Request

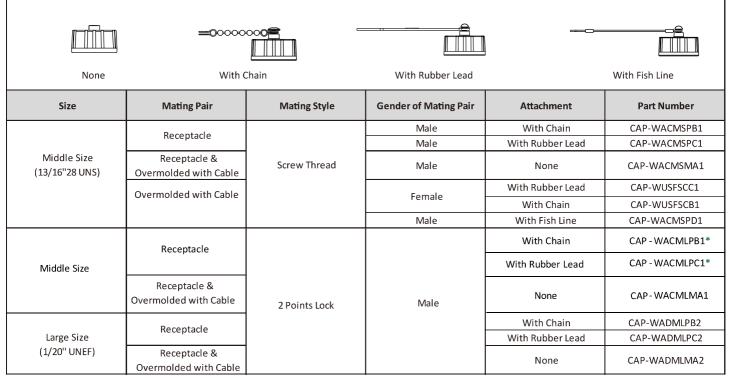
Type A & B Lock Bayonet (2 Points)

		Large Size	(Nut OD: 28.5	mm)			Ī
Panel Cut Out			e A		Тур	ре В	
23.6±0.1			1	DV .			•
ø 25.6	1.5A	1A	1.5A	1A		5A	1
1.6±0.1	2.0	3.2 Gen 1	2.0	3.2 Gen 1	2.0	2.0	
	Pla	Stic	IVIE	etal	Plastic	Metal	
N/A	•	-	-	-	-	-	
20.0	UA-20PMFS- LC8001*	1	USA-20PMF S - LC8001*	-	UB-20PMF S - LC7001*	USB-20PMF S - LC7001*	М
	UA-20PMF P - LC7001	-	USA-20PMF P - LC7001*	-	UB-20PMFP- LC7001	USB-20PMF P - LC7001*	a t
	UA-20PMFP- LC7002	-	USA-20PMFP- LC7002*	-	UB-20PMF P - LC7002	USB-20PMFP- LC7002*	i n g
Type 1 Type 2	UA-20PMF P - LC7003	-	USA-20PMF P - LC7003*	-	UB-20PMF P - LC7003	USB-20PMF P - LC7003*	
20.0							
29.3	UA-20PMFL- LC7A	UA-30PMFL- LC7B 10	USA-20PMFL- LC7A 10*	USA-30PMFL- LC7B 10*	-	-	
72.3	UA-20AFMM- LL7A 10	UA-30AFMM- LL7B 10	USA-20AFMM- LL7A 10*	USA-30AFMM- LL7B 10 *	UB-20AFMM- LL7A 🔟	USB-20AFMM- LL7A 10 *	
51.8 (Ref.) 44.1 (Ref.)	UA-20AFMM- LR7A 10	-	USA-20AFMM- LR7A 10*	-	UB-20AFMM- LR7A 🔟	USB-20AFMM- LR7A 10*	
							P a i
72.3 88	UA20FL-UAFL- LA 10*	-	USA20FL-USAFL- LA 10 *	-	UB20FL-UBFL- LA 10 *	USB20FL-USBFL- LA 10 *	r
72.3 Type A	UA20FL-NAML- LA 10*	UA30FL-NAML- LB 10	USA20FL-NAML- LA 10 *	USA30FL-NAML- LB 10 *	UB20FL-NBML- LA 10 *	USB20FL-NBML- LA 100 *	
44.1 (Ref.) 72.3 (B) 15 (B)	UA20FR-UAML- LA 10 *	-	USA20FR- USAML-LA 10*	-	UB20FR-UBML- LA 10 *	USB20FR- USBML-LA 10*	
44.1 (Ref.) 	UA20FR-NAML- LA 10 *		USA20FR-NAML- LA 10 *	-	UB20FR-NBML- LA 10 *	USB20FR-NBML- LA 10*	

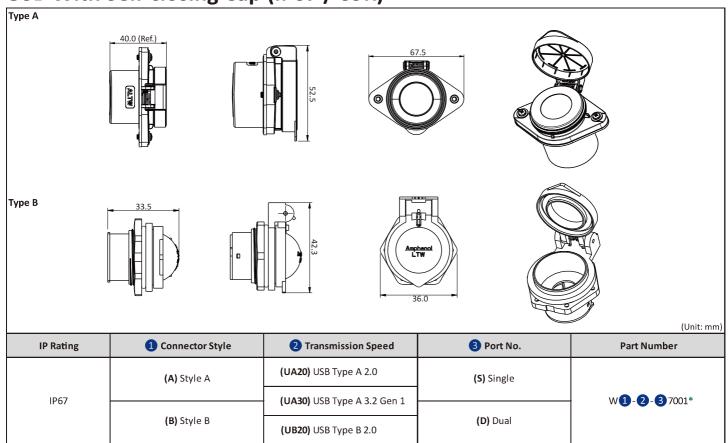
(Unit: mm)

Accessories Type A / B

Waterproof Cap

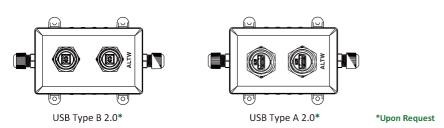


USB With Self-closing Cap (IP67 / 69K)



Distribution Box

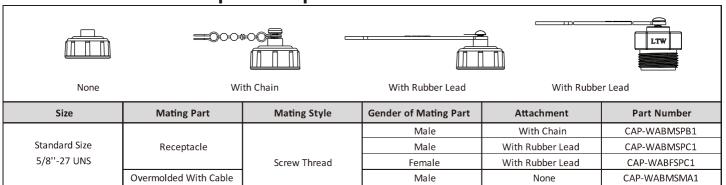
29

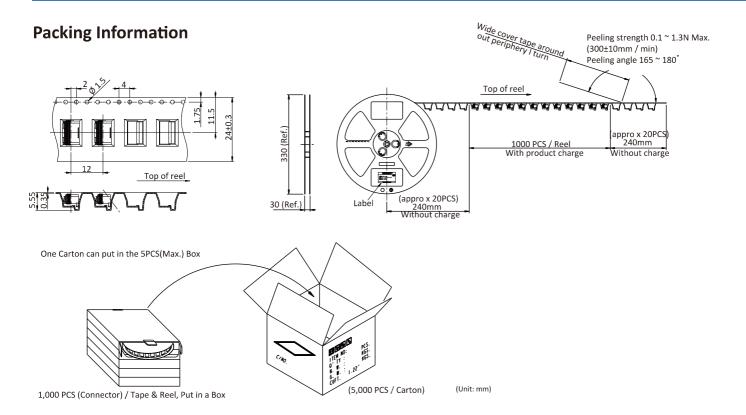


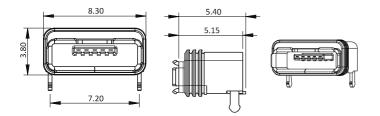
Mini USB Type B Screw Threaded

Specification		Panel Cut Out	Type A	Type B	
Rated Voltage (AC/Do	C)	15.6±0.1		30V	
Nominal Current				1.5A	
Data Transfer Rate				2.0	
Plastic / Metal		14.8±0.1 (Unit: mm)	Plastic	Plastic	
Receptacle, Jack, FRC	ONT Fastene	d Nut, IP67 (Unmated)			
Nut Torque Value: 3.5 ^	5 kgf.cm Re	ecommended Panel Thickness: (With Cap) 1.3mm, (Wit	hout Cap) 2.5mm		
180° PCB 9	0° PCB	180° PCB Type			
15.0	15.0	Male Connector Female Contact	-	NUB-20PMFP-SC7001	
23.5	23.5	90° PCB Type		NULD 20DMED CC7004	
Г п <u>Омив.</u> † іл)———	Male Connector Female Contact	-	NUB-20PMFR-SC7001	
STRAIGHT, Overmold	led Cable As	sembly, Free Cable End, With Strain Relief, IP67 (N	/lated)		
Cable Length: (01) 1	LM ~ (04) 4M				
45.0		PVC Jacket			Т м
	19.0	Male Connector Female Contact	-	NUB-20AMFM-SL7A	a
STRAIGHT-TO-STRAIG	GHT, Overm	olded Double-Ended Cable Assembly, Jack, With S	train Relief, IP67 (Mated)		t
10 Cable Length: (01) 1	1M ~ (05) 5M				i
	45.0	End 1: Male Connector Female Contact		NUB20ML-NUBML-SA10*	n
	9.0	End 2: Male Connector Female Contact	-	NOBZUWIL-NOBIVIL-SA 10 *	g
41.7	45.0	End 1: Male Connector Female Contact	-	NUB20ML-NUBFL-SA************************************	
2		End 2: Female Connector Male Contact			
	45.0	End 1: Male Connector Female Contact	NUB20ML-NAML-SA 10*	_	
		End 2 Non-Waterproof Type A: Male Connector Male Contact	NOBZOWIE-NAIWIE-SA 10	_	
Field Serviceable/Inst	tallable,Jack,	STRAIGHT, Without Strain Relief, IP67 (Mated)			
Sealing Nut Torque Val	ue: 3.5 ~ 5 kgt	.cm Cable O.D.: 3.8 ~ 5.5mm Wire Size: 28 ~ 22AWG	6 (0.08 ~ 0.34mm²)		
45.0 (Re	ef.)	Solder Type	_	NUB-20BMFA-SL7001	
**************************************		Male Connector Female Contact	_	NOB-2001VII A-327001	
STRAIGHT, Overmold	led Cable As	sembly, Free Cable End, With Strain Relief, IP67 (N	Mated)		
0 Cable Length: (01)	LM ~ (04) 4M				
41.7	The	PVC Jacket		NUB-20AFMM-SL7A	
27		Female Connector Male Contact	-	NOB-ZUAFIVIIVI-3L/A	Р
STRAIGHT-TO-STRAIG	GHT, Overm	olded Double-Ended Cable Assembly, With Strain	Relief, IP67 (Mated)		a
0 Cable Length: (A05)	0.5M ~ (005)	5M			i
41.7		End 1: Female Connector Male Contact		NUIDOCE NUIDEL CA 40*	r
		End 2: Female Connector Male Contact	-	NUB20FL-NUBFL-SA 10*	
41.7		End 1: Male Connector Female Contact	NUIDOCE NAME CASO		
		End 2 Non-Waterproof Type A: Male Connector Male Contact	NUB20FL-NAML-SA 10	-	

Accessories Waterproof Cap





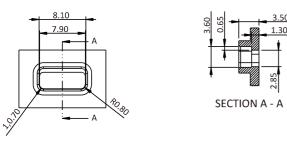


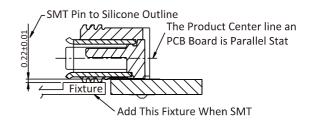
Waterproof Rating	Part Number
IP67 (Unmated, 1M / 30mins)	MUC-20PFFR-JS7002
IP68 (Unmated, 1M / 24h)	MUC-20PFFR-JS8A02
IP68 (Unmated, 5M / 24h)	MUC-20PFFR-JS8B02
IP68 (Unmated, 10M / 3h)	MUC-20PFFR-JS8C02

Connector/Contact Gender: Female Connector Female Contact

Micro USB SWIFT-MU Snap-In

Panel Cut Out





TOLERANCE Recommended Case Cut Out .XX±0.05 SCALE 2 : 1

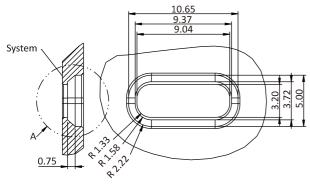
(Unit: mm)

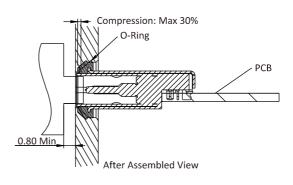
.XX±0.05 SCALE 2 : 1	(Unit: mm)		
Specification		Micro USB Type B	
Rated Voltage (AC/DC)		30V (AC), 5V (DC)	
Nominal Current		(1.8A) 1 & 5 Pin (1.0A) 2, 3 & 4 Pin	
Data Transfer Rate		2.0	
Plastic / Metal		Plastic	
STRAIGHT, Overmolded Cable Asser O Cable Length: (01) 1M ~ (05) 5M	mbly, Free Cable End, With Strain Relief, IP67 (Mated)		
45.8	PVC Jacket Connector/Contact Gender: Male	MUB-20AMMM-QL7A 🔟	
STRAIGHT-TO-STRAIGHT, Overmold © Cable Length: (A05) 0.5M ~ (005) 5N	ed Double-Ended Cable Assembly, With Strain Relief, IP67	(Mated)	M a
45.8	PVC Jacket End 1: Male Connector Male Contact End 2: Male Connector Male Contact	MUB20ML-MUBML-QA 10*	t i n
45.8	PVC Jacket End 1: Male Connector Male Contact End 2: Female Connector Female Contact	MUB20ML-MUBFL-QA@*	g
49.5	PVC Jacket End 1: Male Connector Male Contact End 2: Non-waterproof Type A Male Connector Male Contact	MUB20ML-NAML-QA	
STRAIGHT, Overmolded Cable Asser O Cable Length: (01) 1M ~ (05) 5M	nbly, Free Cable End, With Strain Relief, IP67 (Mated)		
39.5	PVC Jacket Connector/Contact Gender: Female	MUB-20AFFM-QL7A 🔟	
STRAIGHT-TO-STRAIGHT, Overmold Cable Length: (A05) 0.5M ~ (005) 5M	ed Double-Ended Cable Assembly, With Strain Relief, IP67 1	(Mated)	P a i
39.5	End 1: Female Connector Female Contact End 2: Female Connector Female Contact	MUB20FL-MUBFL-QA@*	r
39.5	End 1: Female Connector Female Contact End 2: Non-waterproof Type A Male Connector Male Contact	MUB20FL-NAML-QA10	

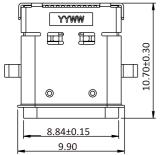
^{*} Upon Request

Type C SWIFT - LP

SWIFT - LP



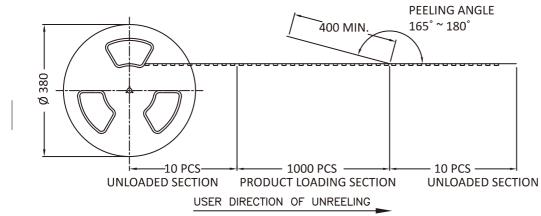


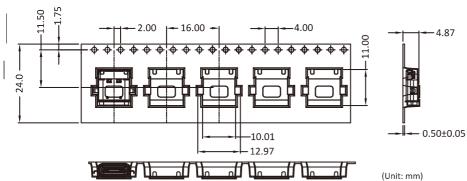


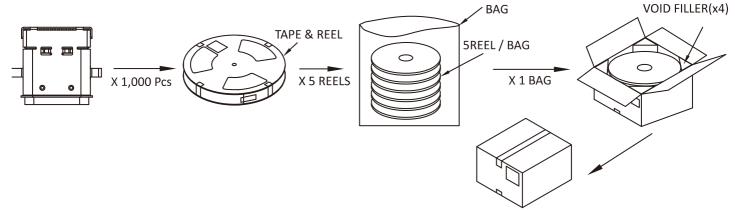


Assembly Type	Transfer Speed	Nominal Current	Part Number Connector/Contact Gender: Female Connector Female Contact
Snap In	Up To 10Gbps	Up To 5A	Receptacle, IP67 (Unmated) UC-00PFFH-QF7001 (PCB Pin Length: 0.6mm) UC-00PFFH-QF7002 (PCB Pin Length: 1.2mm) Receptacle, IP68 (Unmated) UC-00PFFH-QF8001 (PCB Pin Length: 0.6mm) UC-00PFFH-QF8002 (PCB Pin Length: 1.2mm)

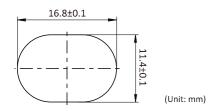
Packing Information



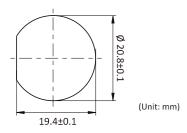




33



Specification		Type C]
Rated Voltage (AC/DC)		30V (DC)	1
Nominal Current		Up to 3A	1
Data Transfer Rate		Up to 5Gbps	1
Plastic / Metal		Plastic	1
Receptacle, Square Flange, USB 3.2 Gen 2,	IP68 (Unmated)		
Nut Torque Value: 3.5 ~ 5 kgf.cm Recommende	d Panel Thickness: max 4.0mm	T	1
21.0	180° PCB Type Female Connector Female Contact	UC-00PFFP-QS8001	
Y-Bean (Packed With Finish Product)	Y-beam, Flex. PCB Female Connector Female Contact	UC-00PFFY-QS8001*	М
STRAIGHT-TO-NON-WATERPROOF PLUG, C	Overmolded With Cable Double Ended, IP67 (Mated) M, USB 3.2 Gen 1: (A05) 0.5M ~ (003) 3M		a t i
43.85	End 1 Type C (2.0): Female Connector Female Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC20FL-NAML-QA	n g
43.85	End 1 Type C (3.2 Gen 1): Female Connector Female Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC30FL-NAML-QB ① *	
43.85	End 1 Type C (3.2 Gen 1): Female Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	UC30FL-NCML-QB 10	
STRAIGHT-TO-STRAIGHT, Overmolded Dou Cable Length: USB 3.2 Gen 2: (A05) 0.5M ~ (C			
43.85	End 1 Type C: Female Connector Female Contact End 2 Type C: Female Connector Female Contact	UC30FL-UCFL-QA10*	
STRAIGHT-TO-NON-WATERPROOF PLUG, Co Cable Length: USB 2.0: (A05) 0.5M ~ (005) 51	Overmolded With Cable Double Ended, IP67 (Mated) M, USB 3.2 Gen 2: (A05) 0.5M ~ (003) 3M		
	End 1 Type C (2.0): Male Connector Male Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC20ML-NAML-QA	
51.1	End 1 Type C (3.2 Gen 1): Male Connector Male Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC30ML-NAML-QB	
	End 1 Type C (3.2 Gen 1): Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	UC30ML-NCML-QB 10 *	P
STRAIGHT-TO-WATERPROOF PLUG, Overm Cable Length: USB 2.0: USB 3.2 Gen 2: (A05)	olded With Cable Double Ended, IP67 (Mated) 0.5M ~ (003) 3M		a i
	End 1 Type C: Male Connector Male Contact End 2 Type C: Male Connector Male Contact	UC30ML-UCML-QB © *	r
51.1 43.85	End 1 Type C: Male Connector Male Contact End 2 Type C: Female Connector Female Contact	UC30ML-UCFL-QB	



		Ту	pe C	
Rated Voltage (AC/DC)		30\	(DC)	
Nominal Current		Up ⁻	To 5A	
Data Transfer Rate		3.2	Gen 2	
Plastic / Metal		Plastic	Metal	
Receptacle, Square Flang, FR	ONT Fastened Nut, IP67 (Unmated)		ļ	
Connector/Contact Gender: Mal	e Connector Female Contact Screw Thread			
Nut Torque Value: 3.5 ~ 5 kgf.cn	Recommended Panel Thickness: with cap: 2.8mm, without cap: 4.0mm			
Y-Bean (Packed With Finish Product)	Y-beam, Flex. PCB	UC-00PMFY- SC7001	USC-00PMFY- SC7001*	
STRAIGHT-TO-STRAIGHT, Ov	ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter	locking Conduit		
10 Cable Length: USB 3.2 Gen 2	2: (A05) 0.5M ~ (003) 3M			
55.9	End 1 Type C: Male Connector Female Contact	UC30ML-UCML-	USC30ML-USCML-	М
	End 2 Type C: Male Connector Male Contact	SC10*	SC10*	а
55.9 55.9	End 1 Type C: Male Connector Female Contact	UC30ML-UCFL-	USC30ML-USCFL-	t
	End 2 Type C: Female Connector Male Contact	SC10*	SC10*	i
55.9	End 1 Type C: Male Connector Female Contact	UC30ML-NCML-	USC30ML-NCML-	n
	End 2 Non-Waterproof Type C: Male Connector Male Contact	SC10*	SC10*	g
10 Cable Length: USB 3.2 Gen 2	. (ADE) O EM ~ (DO2) 2M			
45.0				
45.0	End 1 Type C: Male Connector Female Contact	UC30ML-NUCML-	USC30ML-	
45.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact	SC10*	NUSCML-SC10*	·
45.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact	SC 10 * UC30ML-NUCFL-	NUSCML-SC 10* USC30ML-NUSCFL-	
45.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 *	NUSCML-SC (10* USC30ML-NUSCFL- SC (10*	
45.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML-	NUSCML-SC** USC30ML-NUSCFL- SC** SC** USC30ML-NNCML-	
45.0 23.0 45.0 23.0 45.0 23.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML- SC 10*	NUSCML-SC (10* USC30ML-NUSCFL- SC (10*	
45.0 23.0 45.0 23.0 45.0 23.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML- SC 10*	NUSCML-SC** USC30ML-NUSCFL- SC** SC** USC30ML-NNCML-	
45.0 23.0 45.0 23.0 45.0 23.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML- SC 10*	NUSCML-SC** USC30ML-NUSCFL- SC** SC** USC30ML-NNCML-	
45.0 45.0 23 45.0 23 45.0 23 STRAIGHT-TO-STRAIGHT, Ov 10 Cable Length: USB 3.2 Gen 2	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML- SC 10*	NUSCML-SC** USC30ML-NUSCFL- SC** SC** USC30ML-NNCML-	
42.6 45.0 23 45.0 23 45.0 23 STRAIGHT-TO-STRAIGHT, Ov	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter	SC 10* UC30ML-NUCFL- SC 10* UC30ML-NNCML- SC 10* locking Conduit	NUSCML-SC 10 * USC30ML-NUSCFL- SC 10 * USC30ML-NNCML- SC 10 *	
45.0 42.6 45.0 23.0 45.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 24.0 25.0 26.0 27.0	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact	SC (1)* UC30ML-NUCFL- SC (1)* UC30ML-NNCML- SC (1)* locking Conduit	NUSCML-SC ** USC30ML-NUSCFL- SC ** USC30ML-NNCML- SC ** USC30FL-USCFL-	Р
45.0 45.0 23 45.0 23 45.0 23 STRAIGHT-TO-STRAIGHT, Ov 10 Cable Length: USB 3.2 Gen 2	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 *	NUSCML-SC ** USC30ML-NUSCFL-SC ** USC30ML-NNCML-SC ** USC30FL-USCFL-SC **	Pa
45.0 42.6 45.0 23 45.0 23 45.0 23 45.0 23 55.9 55.9 55.9 55.9 55.9 55.9 55.9 55.9	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Female Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 * UC30FL-NCML- SC 10	NUSCML-SC ** USC30ML-NUSCFL- SC ** USC30ML-NNCML- SC ** USC30FL-USCFL- SC ** USC30FL-NCML-	P a i
45.0 42.6 45.0 23 45.0 23 45.0 23 45.0 23 55.9 55.9 55.9 55.9 55.9 55.9 55.9 55.9	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 * UC30FL-NCML- SC 10	NUSCML-SC ** USC30ML-NUSCFL- SC ** USC30ML-NNCML- SC ** USC30FL-USCFL- SC ** USC30FL-NCML-	P a i r
45.0 45.0 45.0 23 45.0 23 45.0 23 45.0 23 45.0 23 45.0 23 45.0 23 45.0 24 45.0 25 55.9	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 * UC30FL-NCML- SC 10	NUSCML-SC ** USC30ML-NUSCFL- SC ** USC30ML-NNCML- SC ** USC30FL-USCFL- SC ** USC30FL-NCML-	a i
45.0 42.6 45.0 23 STRAIGHT-TO-STRAIGHT, Ov Cable Length: USB 3.2 Gen 2 555.9 STRAIGHT-TO-STRAIGHT, Ov Cable Length: USB 3.2 Gen 2	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 1 Type C: Female Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), Without Conduit :: (A05) 0.5M ~ (003) 3M	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 * UC30FL-NCML- SC 10	NUSCML-SC ** USC30ML-NUSCFL-SC ** USC30ML-NNCML-SC ** USC30FL-USCFL-SC ** USC30FL-NCML-SC ** USC30FL-NCML-SC **	a i
45.0 42.6 45.0 23 STRAIGHT-TO-STRAIGHT, Ov Cable Length: USB 3.2 Gen 2 555.9 STRAIGHT-TO-STRAIGHT, Ov Cable Length: USB 3.2 Gen 2	End 1 Type C: Male Connector Female Contact End 2 Type C: Male Connector Female Contact End 1 Type C: Male Connector Female Contact End 2 Type C: Female Connector Male Contact End 2 Type C: Male Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact ermolded Double-Ended Cable Assembly, IP67 (Mated), With Plastic Inter :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact End 2 Type C: Female Connector Male Contact End 2 Non-Waterproof Type C: Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact Ermolded Double-Ended Cable Assembly, IP67 (Mated), Without Conduit :: (A05) 0.5M ~ (003) 3M End 1 Type C: Female Connector Male Contact	SC 10 * UC30ML-NUCFL- SC 10 * UC30ML-NNCML- SC 10 * locking Conduit UC30FL-UCFL- SC 10 * UC30FL-NCML- SC 10	NUSCML-SC ** USC30ML-NUSCFL-SC ** USC30ML-NNCML-SC ** USC30FL-USCFL-SC ** USC30FL-NCML-SC ** USC30FL-NCML-SC ** USC30FL-NCML-SC **	a i

^{*} Upon Request

Specification		Type C		
Rated Voltage (AC/DC)		30V (DC)		
Nominal Current		Up to 3A		
Data Transfer Rate		2.0	3.2 Gen1	
Plastic / Metal		Plastic	Plastic	
	OF SOCKET , Overmolded Double-Ended Cable Assembly, IP68 (IM $^{\sim}$ (005) 5M, USB 3.2 Gen 1: (A05) 0.5M $^{\sim}$ (003) 3M	Mated)		
40.0	End 1 Type C: Male Connector Male Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC20ML-NAML-KA 10	UC30ML-NAML-KB 10*	М
40.0	End 1 Type C: Male Connector Male Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	UC20ML-NCML-KA (10*	UC30ML-NCML-KB	a t
STRAIGHT-TO-WATERPROOF SOCKET, Overmolded Double-Ended Cable Assembly, IP68 (Mated) 10 Cable Length: USB 2.0: (A05) 0.5M ~ (005) 5M, USB 3.2 Gen 1: (A05) 0.5M ~ (003) 3M				i n
40.0	End 1 Type C: Male Connector Male Contact End 2 Type C: Male Connector Male Contact	UC20ML-UCML-KA10*	UC30ML-UCML-KB	g
41.7 40.0	End 1 Type C: Male Connector Male Contact End 2 Type C: Female Connector Female Contact	UC20ML-UCFL-KA10*	UC30ML-UCFL-KB 10 *	
	OF SOCKET , Overmolded Double-Ended Cable Assembly, IP68 (IM \sim (005) 5M, USB 3.2 Gen 1: (A05) 0.5M \sim (003) 3M	Mated)		
41.7	End 1 Type C: Female Connector Female Contact End 2 Non-Waterproof Type A: Male Connector Male Contact	UC20FL-NAML-KA 10	UC30FL-NAML-KB 10*	_
41.7	End 1 Type C: Female Connector Female Contact End 2 Non-Waterproof Type C: Male Connector Male Contact	UC20FL-NCML-KA 10*	UC30FL-NCML-KB 10	P a
	DCKET, Overmolded Double-Ended Cable Assembly, IP68 (Matec M ~ (005) 5M, USB 3.2 Gen 1: (A05) 0.5M ~ (003) 3M	I)		i r
41.7	End 1 Type C: Female Connector Female Contact End 2 Type C: Female Connector Female Contact	UC20FL-UCFL-KA 10*	UC30FL-UCFL-KB ① *	