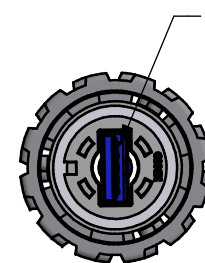
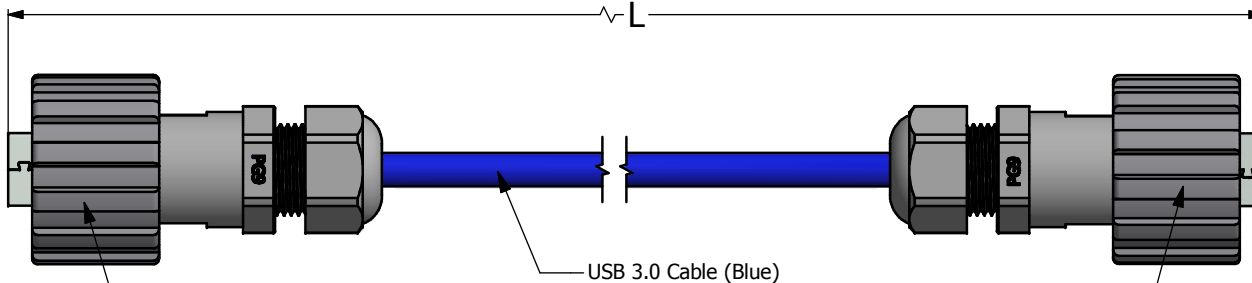


Type A Plug 1



Type A Plug 2

NOTES:

1. Electrical Specifications:

- Meets USB 3.0 specifications
- Low level Contact Resistance:
 - 30 mOhm max for VBUS and GND Contacts
 - 50 mOhm max for all other contacts
- Insulation Resistance 1000 MOhm min.
- Current Rating: 2A max. @ 25°C
- DWV: 500V AC/60s Pin to Pin; 1000V AC/60s Pin to shell
- Connector Operating Temperature: -40°C to +85°C

2. Material and Finish:

- Coupling Ring: Polyester (Black); or ABS, Nickel Plated, UL94 V-0
- Plug Housing: Polyester (Black); or ABS, Nickel Plated, UL94 V-0
- Interfacial Seal: Silicone, Color: White
- Cable Gland: PA (Black) or Brass, Nickel Plated
- Cable Gland Seal: NBR, Color: Black
- Cable Gland Insert (Metal Version): Nylon, Color: White
- USB Insulator: PBT, UL 94V-0, Color: Blue
- USB Metal Shell: SPCC, Nickel plated
- USB Contact: Copper Alloy, 30 u" min. Au over 40 u" min. Nickel Plated
- USB Insulator: PBT +GF, UL94 V-0, Color: Blue

3. Cable: UL AWM 2725, 2 x (Shielded Twist Pair AWG28 + Drain Wire)
+ 2 x Unshielded AWG28 + 2 x AWG24 + Drain Wire, Overall Braid Shield;
Outer Jack PVC, OD: 6.0 mm Color: Blue

4. IP67 & IP68 rated when covered or fully mated with the appropriated mating connectors

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Plug 1	Wire Map	Plug 2
p1	----- Red -----	p1
p2	----- White -----	p2
P3	----- Green -----	P3
P4	----- Black -----	P4
P5	----- Blue -----	P8
P6	----- Yellow -----	P9
P7	---- Drain Wire --	P7
P8	----- Purple -----	P5
P9	----- Orange -----	P6
Shell	----- Braid -----	Shell

⑥

⑦

L	Part Number	
	Plastic Version	Metallized Plastic Version
0.3 ± 0.03 m	17-240091	17-240171
0.5 ± 0.05 m	17-240101	17-240181
0.75 ± 0.05 m	17-240111	17-240191
1 ± 0.10 m	17-240121	17-240201
2 ± 0.10 m	17-240131	17-240211
3 ± 0.10 m	17-240141	17-240221

RoHS Compliant

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	Name	Title	Approval Date	0 PLC ± 0.58	1 PLC ± 0.38		2 PLC ± 0.25	3 PLC ± 0.10	ANGLES ± 3°
	d	1 x d	Aug/16/2017	Vincent Ke	2015	Date	Name	Material: See Notes	Title: IP67 & IP68 USB Patch Cord USB 3.0 Type A Plug to USB 3.0 Type A Plug
	c	2 x c	Aug/08/2017	Vincent Ke	Draw.	Oct. 28	Vincent Ke		
	b	1 x b	Jan/21/2016	Vincent Ke	Appd.	Oct. 28	Thomas Koch		
	a	original			Norm			Drawing No.: 17K1A578	DIN A3
Rev.	Changes	Date	Name				Part No.: SEE P/N ABOVE	Sheet 1/1	