Waterproof USB Type C

SCALABLE, SUPERSPEED CONNECTOR SYSTEM

Waterproof USB Type C Connectors are expected to be widely used as a next-generation interface. They support a variety of protocols such as USB 2.0, USB 3.1 Gen 1, Gen 2 and meet SuperSpeed communication 10Gb/s, 5A and 20V power supply.

The usability for USB 3.1 Type C connector is enhanced also by its low profile and reversible product design. It is ideal for emerging product designs.

- Reversible plug and cable orientation
- Meets USB 3.1/3.0/2.0 speed performance
- Supports high speed transmission up to 10Gb/s
- Extended 5A current rating for USB Power delivery
- Right angle stand-off and straddle mount configurations and waterproof type available

TARGET MARKETS

FEATURES

- Tailored for emerging product designs

- Similar size as Micro USB

- Supports high speed transmission up to 10Gb/s

- Excellent copper alloy material for terminals deisgn

- 24 pin assignment for different kinds of protocol requirements

- Up to 10,000 mating cycles

- Waterproof glue, O-ring added and liquid insert-mold implemented in the front end of the shell

BENEFITS

- Reversible plug and cable orientation for better user experience

- Smaller connector size saves space

- Meets USB 3.1 Gen 1 and Gen 2 specifications
- Backward compatible with USB 2.0

- Extended 5A current rating for USB Power delivery

- Supports audio and video signal output with alternate mode

- Enhanced durability

- Meets IPX2 to IPX8 ratings

TECHNICAL INFORMATION

MATERIAL

▪ Housing: High Temperature Polymer, UL94V–0, Black

▪ Contact: Copper Alloy

▪ Shell: Stainless Steel

MECHANICAL PERFORMANCE

▪ Insertion Force: 5N to 20N

▪ Extraction Force: 8N to 20N

▪ Extraction Force (after durability): 6N to 20N

▪ Durabilty: 10,000 mating cycles

ELECTRICAL PERFORMANCE

▪ Contact Resistance: 40mΩ max. initial for VBUS, GND and all other contacts

▪ Insulation Resistance: 100mΩ min. initial

▪ Dielectric Withstanding Voltage: 100V AC

PACKAGING

▪ Tray/Tape and Reel available upon request

SPECIFICATION

▪ Amphenol Specification: USB Type–C Receptacle

APPROVALS AND CERTIFICATIONS

▪ RoHS

ENVIRONMENTAL

▪ Humidity: 40±2°C, 90 to 95% (RH), for 96 hours

▪ Temperature Life: 105±2°C for 120 hours

TARGET MARKETS/APPLICATIONS

Charger
Car Media Player/Hub

Connector Hub
Flash Disk
Mobile Phone/Tablet
VR Camera

Hard Disk Drives
Solid State Drives

Industrial Computer
POS System

Medical

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PART NUMBERS

USB Version	Data Rate	No. of Contacts	Orientation	Level of Liquid Ingress Protection	Center Height	Shell Feature	Termination Type	Part Numbers
USB 3.1 Gen 2	10Gb/s	24	Top	IPX4	1.58	DIP	Dual Row SMT	124019362112A
USB 3.1 Gen 1	5Gb/s	24	Middle	IPX8	0.40	DIP	Dual Row SMT	124018312112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX4	1.50	DIP	Dual Row SMT	124019372112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX8	1.50	DIP	Dual Row SMT	124018612112A
USB 3.1 Gen 2	10Gb/s	24	Middle	IPX4	0.37	Screw Hole Plate	Dual Row SMT	124019322112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX8	1.50	Screw Hole Plate	Dual Row SMT	124018792112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX8	1.50	DIP	Dual Row SMT	124018802112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX8	1.53	Screw Hole Plate	Dual Row SMT	124019282112A
USB 3.1 Gen 2	10Gb/s	24	Top	IPX2	1.75	DIP	Dual Row SMT	12401899E412A
USB 3.1 Gen 2	10Gb/s	24	Top, Short Body	IPX2	1.58	DIP	Dual Row SMT	12401945E212A
USB 3.1 Gen 1	5Gb/s	24	Middle, Short Body	IPX5	0.40	DIP	Dual Row SMT	124019032112A
USB 3.1 Gen 1	5Gb/s	24	Middle	IPX8	0.40	DIP	Dual Row SMT	124018392112A
USB 3.1 Gen 2	10Gb/s	24	Middle, Short Body	IPX8	0.40	DIP	Dual Row SMT	124018312112A
USB 3.1 Gen 2	10Gb/s	24	Top / Short Body	IPX4	1.50	Straight	Dual Row SMT	124019372112A
USB 3.1 Gen 2	10Gb/s	24	Middle / Short Body	IPX4	0.37	Straight & Screw Hole Plate	Dual Row SMT	124019322112A
USB 3.1 Gen 2	10Gb/s	24	Middle / Short Body	IPX8	–	Straight & Screw Hole Plate	Dual Row SMT	124019282112A

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>>Amphenol(安费诺)