Waterproof USB Type C

SCALABLE, SUPERSPEED CONNECTOR SYSTEM

Waterproof USB Type C with IPX8 performance supports a variety of protocols such as USB 2.0, USB 3.2 Gen 1, USB 3.2 Gen 2 and meet high speed communication and power delivery (20V, 5A).

The usability of Waterproof Type C is with strong IP performance and unique IP technology to ensure each part meets the high quality of waterproof performance.

- IPX4~X8 rating
- High-speed transmission up to 40Gb/s
- Power rating up to100W
- Reversible plug and cable orientation
- All-in-one simplicity

TARGET MARKETS

FEATURES

- Supports high speed transmission up to 10Gb/s
- Excellent copper alloy material for terminals design
- All-in-one simplicity
- Tailored for emerging product designs
- Up to 10,000 mating cycles
- Unique O-ring technology (LIM) for waterproof

BENEFITS

- Support USB2.0, USB 3.2 Gen 1, USB 3.2 Gen 2
- Extended 5A current rating for USB Power delivery and up to 100W
- Support power delivery, data transfer, video output in one connector
- Reversible plug and cable orientation for better user experience
- Enhanced durability
- Reach IPX4 ~ X8 rating

TECHNICAL INFORMATION

MATERIAL

▪ Housing: LCP UL94–V0

▪ Molding Housing: Black, high temperature plastic

▪ Top Terminal: Copper alloy

▪ Bottom Terminal: Copper alloy

▪ Mid Plate: Stainless steel

▪ Outer Shell: Stainless steel

▪ Main Shell: Stainless steel

▪ Small Shell: Stainless steel

MECHANICAL PERFORMANCE

▪ Durability: 10000 cycles

▪ Insertion Force: 5~20N

▪ Extraction Force: 8~20N

ELECTRICAL PERFORMANCE

▪ Low Level Contact Resistance: 40mΩ max.

▪ Insulation Resistance: 100mΩ min.

▪ Contact Current Rating: 5A max.

▪ Dielectric Withstanding Voltage: 100VAC

PACKAGING

▪ Tape & Reel

SPECIFICATION

▪ Amphenol Product Specification

APPROVALS AND CERTIFICATIONS

▪ RoHS

▪ Halogen free

ENVIRONMENTAL

▪ Operating Temperature: –40°C to +85°C

TARGET MARKETS/APPLICATIONS

Automotive Infotainment

Notebook
Docking
Tablet
Peripherals (Monitor/Display, Projector...)
Home Entertainment

Storage

Waterproof USB Type C

PART NUMBERS

Description	Part Numbers
USB 3.2 Gen 1 Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.5 mm, IPX4	124019362112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.5 mm, IPX8	124018802112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.5 mm, IPX8	124018792112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.5 mm, IPX8	124018612112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Mid mount, Dual Row SMT, Center Height 0.4 mm, IPX4	124019032112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Mid mount, Dual Row SMT, Center Height 0.4 mm, IPX8	124018312112A
USB 3.2 Gen 1 Type C, Receptacle, R/A, Mid mount, Dual Row SMT, Center Height 0.4 mm, IPX7	124019572112A
USB 2.0 Type C, Receptacle, R/A, Top mount, Dual Row SMT, IPX8, Center Height 1.5 mm, IPX8	124019772112A