Waterproof USB Type C

WITH IPX8 AND SUPPORTS USB 2.0,USB 3.2 GEN 1,USB 3.2 GEN 2 AND USB 4

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.

- IPX8 Waterproof
- High-speed transmission up to 40Gb/s super speed
- Power rating up to 240W
- Optimized contact design for superior signal integrity performance
- Reversible plug and cable orientation

TARGET MARKETS

FEATURES

- Unique Liquid silicone rubber technology

- Support a variety of USB protocols

- High power and fast charging

- Mid-plate tongue design

- Unique O-ring technology (LIM) for waterproof

- All-in-one simplicity

BENEFITS

- Offers superior bonding with outer shell to prevent water ingression

- Offers product portfolio for USB 2.0, USB 3.2 Gen 1, USB 3.2 Gen 2,USB 4 products

- Extended 5A current rating for USB power delivery and up to 240W

- Ensure high reliability while preventing damage from connector mishandling

- Reach IPX4 ~ X8 rating

- Support power delivery, data transfer, video output in one connector

▶ Waterproof USB Type C

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 Range: –40˚C to +85˚C

TARGET MARKETS/APPLICATIONS

Automotive Infotainment

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

Storage

PART NUMBERS

Description	Part Numbers
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height 0.4mm, Dual Row SMT, IPX8	12402060E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height 0.4mm, Dual Row SMT, IPX8	12402136E512A
USB 4 Gen 3, Type C, Vertical, Length 7.5mm, Dual Row SMT, IPX8	2402082E512A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX4	124019362112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	124018802112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	124018792112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	124018612112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4mm, Dual Row SMT, IPX4	124019032112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4mm, Dual Row SMT, IPX8	124018312112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4mm, Dual Row SMT, IPX8	124019142112A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	124019772112A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	124020242112A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.5mm, Dual Row SMT, IPX8	12402214E512A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.58mm, Dual Row SMT, IPX8	12402050E512A