

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 characterized by its strong IP performance and unique IP technology, ensuring that each part meets the high-quality waterproof performance.

- IPX8 Waterproof
- High-speed transmission up to 40 Gb/s super speed
- Power rating up to 240 W
- 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 ingress
- Offers product portfolio for USB 2.0, USB 3.2 Gen 1, USB 3.2 Gen 2, USB 4 products
- Extended 5 A current rating for USB power delivery and up to 240 W
- Ensure high reliability while preventing damage from connector mishandling
- Reach IPX4 ~ X8 rating
- Support power delivery, data transfer, video output in one connector

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: 10,000 cycles
- Insertion Force: 5~20 N
- Extraction Force: 8~20 N

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 40 mΩ max.
- Insulation Resistance: 100 mΩ min.
- Contact Current Rating: 5 A max.
- Dielectric Withstanding Voltage: 100 VAC

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 0.4 mm, Dual Row SMT, IPX8	12402136E512A
USB 4 Gen 3, Type C, Vertical, Length 7.5mm, Dual Row SMT, IPX8	12402082E512A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX4	124019362112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX8	12402474E512A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX8 (Screw)	124018792112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX8	124018612112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4 mm, Dual Row SMT, IPX4	124019032112A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4 mm, Dual Row SMT, IPX8	12402448E512A
USB 3.2 Gen 1, Type C, Receptacle, R/A, Mid mount, Center Height 0.4 mm, Dual Row SMT, IPX8	124019142112A
USB 3.2 Gen1 Type C, Vertical, Length 6 mm, Dual Row SMT, IPX4	12402324P912A
USB 3.2 Gen1 Type C, Vertical, Length 6 mm, Dual Row SMT, IPX7	12402305P912A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX8 (Screw)	124022702112A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.5 mm, Dual Row SMT, IPX8	12402214E512A
USB 2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.58 mm, Dual Row SMT, IPX8	12402484E512A

Find part number details using the search box on www.amphenol-cs.com

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