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	BENEFITS
Supports high speed transmission up to 10Gb/s	Support USB2.0, USB 3.2 Gen 1, USB 3.2 Gen 2
Excellent copper alloy material for terminals design	Extended 5A current rating for USB Power delivery and up to 100W
All-in-one simplicity	Support power delivery, data transfer, video output in one connector
Tailored for emerging product designs	Reversible plug and cable orientation for better user experience
Up to 10,000 mating cycles	Enhanced durability
Unique O-ring technology (LIM) for waterproof	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

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Disclaimer
Please note that the above information is subject to change without notice.