

Amphenol

ID Series Rugged Bulkhead Connector Adaptor

CONNECTOR ADAPTOR FOR **INDUSTRIAL AND MILITARY APPLICATIONS**

Amphenol's ID series Rugged Bulkhead Adaptors serve many markets and applications across the globe including Automotive, Communications, Consumer, Data, Industrial and Medical.

ID series is designed to provide a sealed adapter at the panel or bulkhead of equipment. The interface is sealed in both mated and unmated conditions.

- Environmental sealing protects against water and dust
- Die cast metal housings protect against mechanical damage
- Operating temperature range from -40°C to +85°C for extreme condition
- RoHS compliant to meet environmental standards

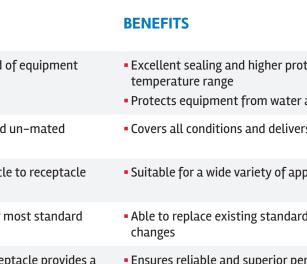
FEATURES

- Sealed adaptor at the panel or bulkhead of equipment
- Interface is sealed in both the mated and un-mated conditions
- Modular jack or USB type A in a receptacle to receptacle configuration
- External plug kit can be assembled over most standard plug terminated cables
- Spring-loaded external cover of the receptacle provides a positive lock for the mated plug, yet closes the mating area tightly when not in use
- RoHS compliant

- Excellent sealing and higher protection over wide temperature range
- Protects equipment from water and dust incursion
- Covers all conditions and delivers reliable performance

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- Suitable for a wide variety of application requirements
- Able to replace existing standard parts with little to no changes
- Ensures reliable and superior performance
- Meets environmental, health and safety requirements



TARGET MARKETS

TECHNICAL INFORMATION

MATERIAL

- External Shell: Die Cast Zinc, Nickel Plated
- Internal Shield:
- Modular Jack Stainless Steel;
 USB Type A Copper Alloy, Nickel Plated
- Inserts: Engineering Thermoplastic, Glass Reinforced, UL94V-0, Black
- Contacts: Copper Alloy Plated with 0.76um (30u") min Gold over 1.27um (50u") min Nickel on the Mating Area
- Internal Overmoulding: USB Type A Only Thermoplastic over UL1007 Wiring
- Gaskets, O-rings, Split Washers: Silicone Rubber
- Mounting Screws: Stainless Steel

ELECTRICAL PERFORMANCE

- Current Rating: 1.5A max. per Contact($\Delta \leq$ 30°C)
- Contact Resistance:
 - Modular Jack- 20mΩ max.;
 USB Type A 30mΩ max.
- Insulation Resistance:
 - Modular Jack- 500MΩ min.;
 USB Type A 1000MΩ min.
- Dielectric Withstanding Voltage:
- Modular Jack- 1000 VAC rms (between adjacent contacts), 1500 VAC rms (contacts to ground); USB Type A- 500 VAC rms

ENVIRONMENTAL

- Temperature Life: Per EIA-364-17, Without Load, 85°C, 1000 Hrs
- Thermal Shock: Per EIA-364-32, -55°C to +85°C, 10 Cycles
- Humidity: Per EIA-364-31, 10 Cycles, 240 Hrs, 25°C to 65°C, 90-95%RH, with -10°C Cold Shock

PACKAGING

Tray

SPECIFICATION

Amphenol Product Specification: USB, RJ

APPROVALS AND CERTIFICATIONS

RoHS

MECHANICAL PERFORMANCE

- Operating Temperature: -40°C to +85°C
- Insertion Force:
 - Modular Jack- 20N max.; USB Type A 30N max.
- Extraction Force:
- Modular Jack- 20N max. with Latch Disengaged; USB Type A-10N min.
- Durability: Per EIA 364-09, 1500 Cycles
- \bullet Vibration: Per EIA 364–28 Condition II, (10g, 10–500Hz), No Discontinuity \leq 1 μs
- Shock: Per EIA 364–27 Test Condition A, (11ms, 50g, 1/2 Sine), No Discontinuity $\geq 1 \mu s$

TARGET MARKETS/APPLICATIONS



Car Navigation Systems Display Cluster Electric Vehicle



AC/DC pluggable power supplies Base Station Datacom Optical Transport Routers Switches Telecom



Home Entertainment Equipment Refrigerator



Data Center External Portable Storage High Density Ethernet switching Router and Server Storage System



Chemical Detection System Industrial Control Equipment Energy Meter Gaming Machine Lighting Measuring Equipment Parking Meter POS Machine Renewable Energy Robotics Smart Meter Vending Machines



Analyzers Medical Diagnostics Ultrasound Equipment

www.amphenol-icc.com

Disclaimer

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

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PART NUMBERS

Description	Туре	Part Numbers
ID Series Rugged Bulkhead Connector Adaptor	Receptacle half, RJ45	ID450-000
ID Series Rugged Bulkhead Connector Adaptor	Receptacle half, USB	ID451-000
ID Series Rugged Bulkhead Connector Adaptor	Plug half, RJ45	ID550-000
ID Series Rugged Bulkhead Connector Adaptor	Plug half, USB	ID651-000
ID Series Rugged Bulkhead Connector Adaptor	Plug & Receptacle, RJ	ID750-000
ID Series Rugged Bulkhead Connector Adaptor	Plug & Receptacle, USB	ID751-000

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