

NFD17

STANDARD RIGHT-ANGLE, THROUGH-HOLE, SOLDER TYPE NON-FILTERED D-SUB CONNECTOR

Amphenol's NFD17 D-Subminiature connectors complement our extensive I/O connector product line. This line of connectors offers many superior features, a high-performance level, and low installation cost. These proven D-Subminiature connectors are one of the most popular input/output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer, Industrial, Instrumentation, and Medical.

- High Strength Thermoplastic components meet UL 94V-0
- Durable – 200 / 500 mating cycles
- Contact plating available in Gold flash, 15µin or 30µin of Gold
- Available in variety of pin and socket options
- RoHS Compliant

FEATURES

- Available in straight and right-angle orientations
- D-shaped shell design
- Accommodates industry standard plugs
- Meets MIL-C-24308 dimensional standards
- Available in Through-Hole Type (THT) and Solder Cup terminations
- Wide operating temperature: -25° C to +85° C
- Lead-free and RoHS compliant



TARGET MARKETS



BENEFITS

- Support different PCB mounting requirements
- Supports the need for polarization
- Interchangeable and intermateable with other makes
- Ability to choose specific connector for applications that meets data transfer rates
- Ideal for applications undergoing mechanical and environmental stress
- Adaptable to a wide range of environmental conditions
- Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Insulator: Engineering thermoplastic; Complies with UL94V-0
- Contacts: Phosphor Bronze hard temper with Gold thickness options (6uin, 15uin, 30uin, 50uin) over 50uin min. Nickel on contact mating area. 100uin min. Matte Tin plating on soldering tail
- Shield: Copper Alloy, Nickel plated with Tin dipped tail or Stainless Steel with Tin dipped tail

ELECTRICAL PERFORMANCE

- Contact Resistance: 20mΩ max.
- Insulation Resistance: 500MΩ min. at 500VDC for 1 minute max.
- Current Rating: 1A per contact
- Voltage Rating: 250VAC
- DWV Contact to Contact: 1,000VAC, 60Hz, 1 min.

MECHANICAL PERFORMANCE

- Screw Torque Force: 2.60lbs max.
- Pull Retention Force: 6.10lbs min.
- Durability: 200 min. mating and unmating cycles
- Operating Temperature Range : -25°C to +85°C
- Recommended Soldering Temperature: soldering at 245 ± 5°C for 5-7 seconds max.

APPROVALS & CERTIFICATION

- REACH
- RoHS

PART NUMBERS

Description	Part Numbers
D-Sub, 9 Pin Socket, Right Angle, Boardlocks #4-40 UNC Threaded Hole	NFD17E09SAFC1DA
D-Sub, 9 Pin Plug, Vertical, Boardlocks #4-40 UNC Screwlocks Threaded Hole	NFD17E09PA4E1DA
D-Sub, 9 pin Socket, Vertical, Socket #4-40 UNC Screwlocks Installed	NFD17E09SBFE1CA
D-Sub, 9 Pin Socket, Vertical, Socket #4-40 UNC Screwlocks Installed	NFD17E09SAFE1CA
D-Sub, 9 Pin Plug, Vertical, 3.05mm Clear Hole	NFD17E09PA2E1CA
D-Sub, 9 Pin Socket, Right Angle, Boardlocks #4-40 UNC Threaded Hole	NFD17E09SAFC1DA
D-Sub, 15 Pin Socket, Vertical Press Fit, With Fixed #4-40 UNC Screwlocks	NFD17A15SA3E1CA
D-Sub, 15 Pin Socket, Vertical, 3.05mm Clear Hole, Solder Cup	NFD17A15SB2E1BA
D-Sub, 15 pin Socket, Vertical, Socket #4-40 UNC Screwlocks Installed	NFD17A15SBFE1DA
D-Sub, 15 Pin Plug, Vertical, 3.05mm Clear Hole, Solder Cup	NFD17A15PB2E1BA
D-Sub, 25 Pin Plug, Vertical, Socket #4-40 UNC Screwlocks Installed	NFD17B25PB2E1DA
D-Sub, High Density, Right Angle, 26 Pin Socket, With Boardlocks #4-40 UNC Screwlocks Installed	NFD17A26SC4C1DA
D-Sub, 37 Pin Plug, Vertical, Boardlocks #4-40 UNC Screwlocks Installed	NFD17C37PAFE1DA
D-Sub, 37 Pin Socket, Right Angle, Socket #4-40 UNC Screwlocks Installed	NFD17C37SAFC1DA
D-Sub, 37 Pin Socket, Vertical, #4-40 UNC Threaded Hole	NFD17C37SB4E1CA

ENVIRONMENTAL

- Withstand Humidity 96 hours: EIA 364-31A
- Salt Spray Tested 24 hours: EIA 364-26A
- Thermal Shock: EIA 364-32A

SPECIFICATION

- MIL-DTL-24308

PACKAGING

- Tray
- Carton

TARGET MARKETS/APPLICATIONS



Data Communications
Mobile Communications
Power Supplies
Printer & Copier



Industrial & Instrumentation



Medical Equipment
Test Equipment
Analysis Equipment



Military Equipment