

✓ RoHS & CE	✓ UL 94V-0/V-2
✓ Fluke Tested	✓ OEM / ODM

ADAPTER SERIES

RJ45 8P8C Modular T-Adapter Female to 2 Female - Straight-Through Parallel Connection Splitter with Customizable Housing and Pinout

Online Product Page:
https://www.hxplug.com/rj45-t-adapter-8p8c-female-to-2-female-straight-modular/

KEY PRODUCT HIGHLIGHTS

- 1-to-2 Parallel Connectivity: The RJ45 T-Adapter Female to 2 Female allows a single RJ45 port to be split into two parallel sockets using a straight-through wiring scheme.
- Straight-Through Wiring: All 8 pins are wired in parallel (1-1-1, 2-2-2, etc.), making it ideal for telephone systems, specialized signal testing, or non-data network applications.
- High-Impact ABS Construction: Built with a rugged, flame-retardant ABS shell that protects internal connections from physical stress and environmental factors.
- Superior Signal Integrity: Features phosphor bronze contacts with industrial-standard 50 micro-inch gold plating to prevent oxidation and ensure a low-resistance connection.
- Compact T-Shape Design: The ergonomic T-shaped modular housing allows for easy installation in tight spaces without blocking adjacent ports.
- Fully Customizable: Available for OEM/ODM projects including custom logo printing, specialized colors, and modified internal pinout configurations.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Product Name	RJ45 T-Adapter Female to 2 Female
Connector Type	RJ45 8P8C (1 Female to 2 Female)
Wiring Logic	Straight-Through / Parallel
Pin Configuration	Full 8-Pin Connectivity
Housing Material	High-Impact ABS (UL 94V-0)
Contact Material	Gold-Plated Phosphor Bronze (50u)
Transmission Frequency	Up to 100MHz (Cat5e Performance)
Mating Cycles	≥ 750 Insertions
Color Options	White, Gray, Black (Customizable)
Compliance	RoHS, REACH Compliant

ENGINEERING OVERVIEW & APPLICATIONS

The RJ45 T-Adapter Female to 2 Female is an essential component for telecommunications and specialized networking environments. Unlike active hubs or switches, this modular T-adapter provides a simple, passive way to duplicate an RJ45 connection. Designed specifically as a "Straight-Through" or parallel adapter, it maps all eight pins of the input female port to the corresponding pins of both output female ports. This makes it an invaluable tool for engineers and IT professionals who need to bridge connections in telephone systems, security setups, or experimental signal routing.

In the world of networking, not all splitters are equal. Our RJ45 T-Adapter Female to 2 Female utilizes a straight-through (1:1) wiring logic. This means that Pin 1 of the input port is connected to Pin 1 of both output jacks. This parallel configuration is primarily used for voice applications (POTS/VOIP), RS232/RS485 serial communication over RJ45, and signal monitoring. By maintaining a 1-to-1 pinout across all 8P8C contacts, this adapter ensures transparency for the signals passing through it.

Quality is at the core of our manufacturing process. The RJ45 T-Adapter Female to 2 Female is encased in a precision-molded ABS shell that is both lightweight and incredibly durable. The internal PCB (Printed Circuit Board) is designed to minimize signal reflection and cross-talk, which is often a problem in low-quality molded splitters. Furthermore, the 8P8C contacts are treated with a deep 50-micron gold layer. This prevents the "pitting" and corrosion that occurs in high-humidity environments, ensuring that your connection remains stable over years of use.

We specialize in providing tailored solutions for infrastructure providers. Our RJ45 T-Adapter Female to 2 Female can be modified to meet your specific brand requirements. We offer:

Gold Plating Options FU" / 3µ" / 6µ" / 15µ" / 30µ" / 50µ" Custom Gold Plating	**100% Quality Assurance** Fluke Versiv / DSX Tested, Salt-Spray & ≥750–2000 Mating Cycles
OEM / ODM Customization Custom Mold Tooling, Housing Colors, Cable Lengths & Private Label	**Certifications & Compliance** ISO 9001:2015, RoHS, REACH, CE, UL 94V-0 / UL 94V-2 Rated

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