

|                           |                          |                                  |                                 |                                 |
|---------------------------|--------------------------|----------------------------------|---------------------------------|---------------------------------|
| PERFORMANCE<br>Cat.6A 10G | BANDWIDTH<br>1 - 500 MHz | SHIELDING<br>360° STP / Die-Cast | TERMINATION<br>Toolless Coupler | FORM FACTOR<br>1U 19" Rackmount |
|---------------------------|--------------------------|----------------------------------|---------------------------------|---------------------------------|



**PRODUCT OVERVIEW**

The **WebiT® Cat.6A STP 24-Port 1U Feed-Through (Back-to-Back) Patch Panel** is engineered for mission-critical enterprise networks and hyperscale data centers requiring high-speed, high-density 10 Gigabit Ethernet connectivity. Designed to fit any standard EIA/TIA 19-inch equipment rack or cabinet, this panel completely eliminates the labor-intensive punch-down process.

Equipped with 24 pre-installed, fully shielded Cat.6A RJ45 female-to-female inline couplers, network technicians can effortlessly patch factory-terminated RJ45 patch cables directly into both front and rear interfaces. The robust all-metal die-cast couplers provide 360° shielding to eliminate alien crosstalk (AXT) and electromagnetic interference (EMI), guaranteeing optimal transmission integrity at swept frequencies up to 500 MHz.

KEY FEATURES & ENGINEERING HIGHLIGHTS

- ✓ Tool-Free Plug & Play Deployment**  
Requires no 110 or Krone punch-down termination tools. Direct RJ45-to-RJ45 back-to-back connectivity drastically reduces on-site labor time, simplifies field setup, and eliminates wiring errors.
- ✓ Snap-In / Snap-Out Modular Couplers**  
Heavy-duty shielded keystone couplers snap effortlessly into and out of the panel frame, facilitating immediate Moves, Adds, and Changes (MACs) and painless future maintenance.
- ✓ Superior EMI/RFI & Alien Crosstalk Suppression**  
Full 360-degree zinc alloy shielding around each coupler combined with an integrated 18 AWG ground wire safeguards high-speed 10GBASE-T data streams from harsh electrical noise and inter-channel crosstalk.
- ✓ Integrated Rear Cable Management & Port Numbering**  
Includes a detachable steel rear cable management bar with cable tie anchors to ensure appropriate bend radius and relieve cable strain. Bold, clear front and rear 1–24 numerical sequencing and write-on label fields accelerate port identification.
- ✓ Universal Backward Compatibility & Power over Ethernet**  
Fully compatible with Cat6 and Cat5e structured cabling systems, 6/8-pole RJ45 patch cords with T568A and T568B wiring schemes, and supports IEEE 802.3af/at (PoE / PoE+) and 802.3bt Type 3 applications.

TARGET APPLICATIONS

|                                                                                                         |                                                                                                  |                                                                                             |                                                                                                   |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Cloud &amp; Data Centers</b><br>High-density 10GBASE-T top-of-rack (ToR) and cross-connect patching. | <b>Healthcare &amp; Labs</b><br>Critical EMI-free environments requiring zero signal distortion. | <b>Government &amp; Finance</b><br>Secure, high-bandwidth server racks and command centers. | <b>Commercial Enterprise</b><br>MDF/IDF backbone distributions and institutional network closets. |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

TRANSMISSION & ELECTRICAL SPECIFICATIONS

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Performance Standard  | Cat.6A / Class E <sub>A</sub> Channel Compliant       |
| Bandwidth Frequency   | 1.0 MHz to 500.0 MHz (Swept)                          |
| Ethernet Data Rates   | 10GBASE-T, 1000BASE-T, 100BASE-TX, 10BASE-T           |
| PoE Compliance        | IEEE 802.3af (PoE), IEEE 802.3at (PoE+), PoE+ + Ready |
| Wiring Scheme         | Straight-Through Coupler (Supports T568A / T568B)     |
| Current Rating        | 1.5 Amps Max.                                         |
| Contact Resistance    | ≤ 20 mΩ                                               |
| Insulation Resistance | ≥ 500 MΩ @ 500V DC                                    |
| Dielectric Strength   | 1000V AC RMS 60Hz, 1 min (Contact-to-Shield)          |

PHYSICAL & MECHANICAL PROPERTIES

|                   |                                             |
|-------------------|---------------------------------------------|
| Form Factor       | 1U Rack Unit, Standard 19" EIA/ECA-310-E    |
| Port Count        | 24 Ports (1 × 24 Horizontal Array)          |
| Termination Type  | Toolless RJ45 Female to RJ45 Female Coupler |
| Frame Material    | Heavy-duty SPCC Cold-Rolled Steel (1.5mm)   |
| Faceplate Molding | High-Impact Flame-Retardant ABS (UL94V-0)   |
| Coupler Shell     | Zinc Alloy Die-Cast, Full Nickel Plating    |
| RJ45 Contact Pins | Phosphor Bronze with 50μ" Gold Plating      |
| Mating Cycles     | ≥ 750 Insertions / Extractions              |

ENVIRONMENTAL & DIMENSIONS

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Dimensions (H × W × D) | 1.75" × 19.0" × 3.62" (44.5 × 482.6 × 92 mm)       |
| Depth with Cable Bar   | Approx. 92 mm (3.62 in) total operational depth    |
| Finish / Color         | Electrostatic Powder-Coated Matte Black (RAL 9005) |
| Operating Temp.        | -10°C to +60°C (14°F to 140°F)                     |
| Storage Temp.          | -40°C to +70°C (-40°F to 158°F)                    |
| Humidity Range         | 10% to 90% RH (Non-condensing)                     |
| Grounding Provision    | 18 AWG Green/Yellow Ground Wire with Lug           |
| Cable Management       | Detachable Rear Steel Bracket with Zip-Tie Loops   |

STANDARDS & REGULATORY COMPLIANCE

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| Structured Cabling | ANSI/TIA-568.2-D, ISO/IEC 11801 Class E <sub>A</sub> , EN 50173 |
| Network Protocols  | IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1000BASE-T)             |
| Power Delivery     | IEEE 802.3af / IEEE 802.3at / IEEE 802.3bt (PoE Type 3)         |
| Hardware & Rack    | EIA/ECA-310-E, RoHS Compliant, CE, REACH                        |
| Flammability       | UL 94V-0 Rated Engineering Thermoplastic                        |

ORDERING & PACKAGING INFORMATION

| Part Number      | Description                                           | Pkg        |
|------------------|-------------------------------------------------------|------------|
| WB-PP-C6ASTP-24F | 1U 24-Port Cat.6A STP Feed-Through Patch Panel, Black | 1 Pc / Box |

\* Package Includes: 1× 24-Port Patch Panel Frame, 24× Shielded Cat.6A RJ45 Couplers, 1× Detachable Rear Cable Bar, 1× Grounding Wire, 4× M6 Rack Screws & Cage Nuts, Cable Ties, Quick Guide.

Why Choose WebiT Feed-Through?

Eliminate punch-down labor by up to 70% during moves, adds, and changes.

Unlike traditional 110-IDC punch-down panels, WebiT feed-through coupler panels enable instantaneous plug-and-play patching. Both front patch leads and incoming structured cabling are pre-terminated and tested factory-direct, eliminating split pairs, attenuation spikes, and installation errors in mission-critical networks.

WebiT® Telecomms

Professional Server Racks, Network Enclosures & Cabling Systems  
ISO 9001:2015 Certified Manufacturing • OEM/ODM Global Solutions

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