Planet
Structure Cabling Systems

# Cat.6 UTP 24-Port Patch Panel Loaded With LED

Patch Panel

**Part Number:** PL-PP24UD




## 1. GENERAL DESCRIPTION

PLANET Cat6 LED Port Identification Patch Panel provides 24 RJ45 terminations in a standard 19-inch, 1U rack format. Each port has an individual LED indicator that can be triggered by a compatible external network line finder to locate the corresponding cable termination during installation, testing or maintenance.

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| 24 PORTS<br>Loaded panel | 1U HEIGHT<br>24 INDICATOR LEDs | 19-INCH<br>482.6 mm series | UNSHIELDED<br>UTP architecture |

## 2. PRODUCT HIGHLIGHTS

- 24 integrated front 8P8C modular ports with sequential 1-24 identification and writable label areas.
- Rear dual-colour T568A/T568B IDC termination blocks; compatible with 110 and KRONE-style punch-down tools.
- Category 6 / Class E, 100 Ω balanced connectivity with a published frequency range of 1–250 MHz.
- Standard 482.6 mm (19-inch) rack/cabinet format in 1U nominal rack height (44.45 mm).
- Unshielded construction with no screen or shield-bonding path; install only as part of a UTP cabling system.
- Approved drawings, bill of materials, Category 6 component test data, environmental and material declarations are available upon request for the exact part number and lot.

**TECHNICAL SPECIFICATIONS** **24 PORT | 1U | CAT.6 UTP**

## 3. TECHNICAL SPECIFICATIONS

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| **PRODUCT TYPE** | LED port identification patch panel, Cat6 |
| **CONNECTIVITY** | 24 × RJ45 front ports; IDC rear termination |
| **RACK FORMAT** | 19-inch rack mounting; 1U; overall width 482 mm |
| **WIRING SCHEME** | T568A / T568B |
| **CONDUCTOR RANGE** | 22-26 AWG, stranded and solid wire |
| **LED OPERATION** | Independent LED for each port; external line finder triggered |
| **OPERATING TEMP.** | -10 °C to +60 °C |

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## 4. Key features

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| • 24 numbered Cat6 RJ45 ports with individual LED identification points | • External line finder activates the target port LED for cable tracing |
| • Black-painted 1.4 mm SPCC steel front panel | • IDC termination supports T568A and T568B wiring schemes |
| • Krone / 110-compatible termination; 22-26 AWG conductors | • Standard 19-inch rack installation, 1U height |

## 5. Materials & contact construction

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| **FRONT PANEL** | 1.4 mm SPCC steel, black painted |
| **RJ45 HOUSING** | PBT |
| **RJ45 CONTACT** | Phosphor bronze, 50-60 µin nickel underplate; gold-plated contact area (gold thickness not stated) |
| **IDC HOUSING** | PC |
| **IDC TERMINAL** | Phosphor bronze, 50 µin tin-lead plating over 50-60 µin nickel |
| **TERMINATION** | Krone / 110 tool compatible; 22-26 AWG, stranded and solid |

## 6. Mechanical & performance characteristics

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| **INSERTION FORCE** | 900 grams-force for 8 contacts (manufacturer stated) |
| **JACK / PLUG RETENTION** | 7.7 kg-force (manufacturer stated) |
| **JACK DURABILITY** | 750 mating / unmating cycles; stated test rate max. 20 cycles/min |
| **IDC DURABILITY** | Minimum 200 punch-down operations (manufacturer stated) |
| **CATEGORY REFERENCE** | ANSI/TIA/EIA-568-B.2 (legacy reference reproduced from supplied OEM data) |

**Packing:**

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| **Carton** | 10 PCS |