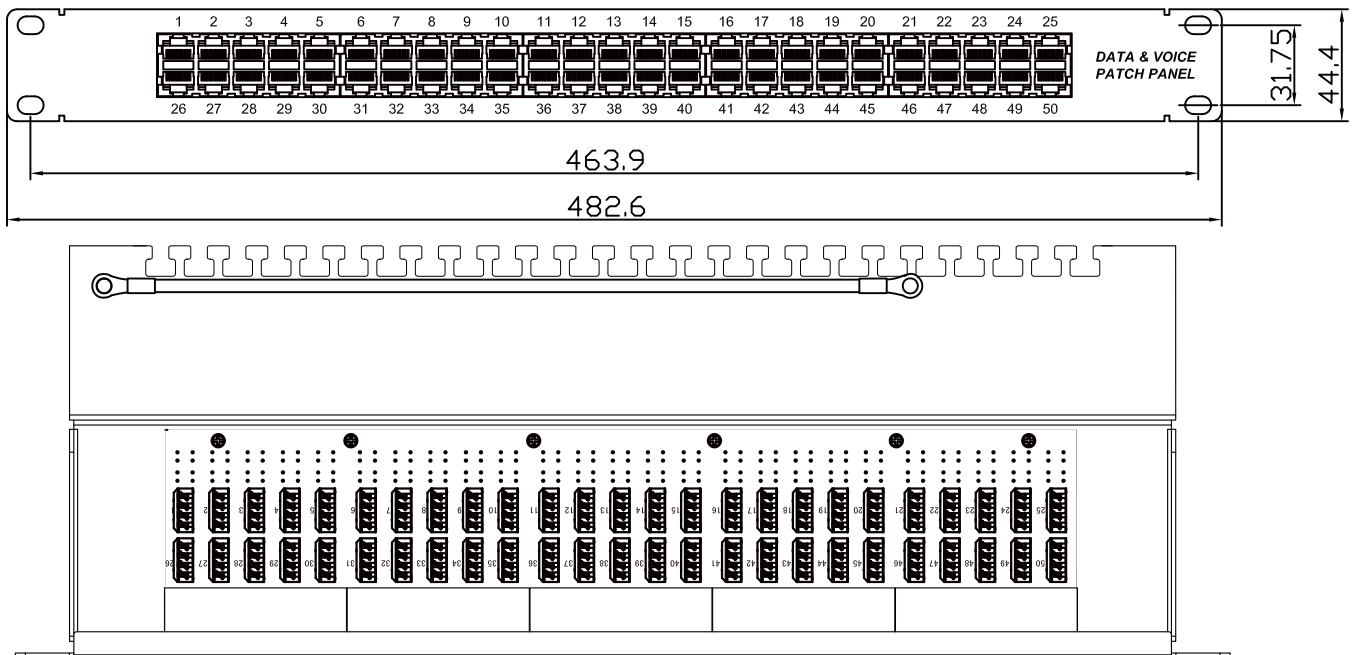
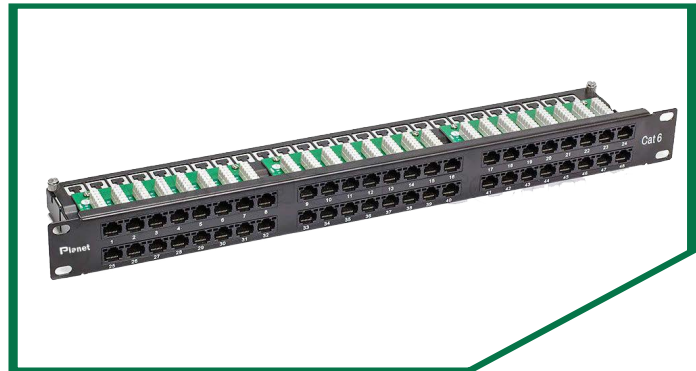


Part Number: PL-PP50UL3



### 1. GENERAL DESCRIPTION

A 482.6 mm (19-inch), 1U, 50-port loaded unscreened patch panel for analog voice and ISDN/telephone distribution. Its front unkeyed RJ45-type 8P8C outlets are arranged in two numbered rows, with rear LSA-style insulation-displacement terminations. Any Category 3 or data-service statement applies only to the exact approved pin mapping and construction and shall be supported by the applicable component or installed-link test documentation.

|                                 |                                     |                                   |                              |
|---------------------------------|-------------------------------------|-----------------------------------|------------------------------|
| <b>50 PORTS</b><br>Loaded panel | <b>1U HEIGHT</b><br>44.4 mm drawing | <b>19-INCH</b><br>482.6 mm series | <b>CAT.3</b><br>Voice / ISDN |
|---------------------------------|-------------------------------------|-----------------------------------|------------------------------|

### 2. PRODUCT HIGHLIGHTS

- 50 front unkeyed RJ45-type 8P8C outlets in two rows: ports 1-25 on the upper row and ports 26-50 on the lower row.
- Rear LSA-style IDC terminations for 26–22 AWG conductors (0.40–0.64 mm bare-conductor diameter), solid or stranded as declared.
- Category 3, nominal 100  $\Omega$  balanced connectivity up to 16 MHz only where the exact assembly and mapping are verified by the applicable report.
- 482.6 mm (19-inch) rack format in 1U nominal height; the source drawing shows 44.4 mm overall height and 31.75 mm vertical mounting-hole spacing.
- Central and side cable-anchor features, pair manager and dual chassis earthing points support orderly routing and chassis bonding.
- Wiring drawings, component/category reports, material declarations and inspection records are available upon request for the exact part number and production lot.

## TECHNICAL SPECIFICATIONS

50 PORT | 1U | CAT.3 VOICE

### 3. TECHNICAL SPECIFICATIONS

| Parameter               | Specified Requirement / Technical Scope                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type            | 50-port loaded Category 3 voice/ISDN patch panel, unscreened                                                                                                                                                        |
| Part number             | PL-PP50UL3                                                                                                                                                                                                          |
| Port capacity           | 50 integrated outlets in two rows: upper row 1-25 and lower row 26-50                                                                                                                                               |
| Rack format / drawing   | 482.6 mm (19-inch), front rack/cabinet mounting; 1U nominal. Source drawing: 44.4 mm overall height and 31.75 mm vertical mounting-hole spacing; depth and remaining tolerances per approved drawing                |
| Intended applications   | Analog voice/POTS and ISDN/telephone distribution. Any data service is conditional on the exact pair/pin mapping and verified component/link performance                                                            |
| Front interface         | Unkeyed RJ45-type 8P8C modular outlets                                                                                                                                                                              |
| Rear termination        | LSA-style insulation-displacement contacts (IDC); use the manufacturer-approved termination tool and procedure                                                                                                      |
| Conductor compatibility | 26-22 AWG; 0.40-0.64 mm bare-conductor diameter; solid or stranded as declared. Confirm insulation outside diameter and strand construction against the approved IDC data                                           |
| Wiring / pin mapping    | Follow the supplied wiring label and approved drawing. Do not assume T568A/T568B or Ethernet pair assignment without explicit product documentation                                                                 |
| Category / bandwidth    | Category 3, nominal 100 ohm balanced connectivity up to 16 MHz, conditional on the exact verified assembly. Certify the installed link where a category claim is required                                           |
| Chassis / finish        | Mild-steel chassis with black finish as declared; exact thickness, coating and corrosion performance per approved BOM/report                                                                                        |
| Cable management        | Central and side cable-anchor features, cable-tie points and pair manager; provide strain relief without damaging conductor insulation                                                                              |
| Bonding / shielding     | Unscreened signal path. Dual chassis earthing points and supplied earth lead are for chassis/rack bonding only; no signal-screen continuity is claimed                                                              |
| Validation / durability | Port retention, mating and IDC durability, contact resistance and applicable Category 3 transmission parameters shall be supported by the manufacturer's report; no unverified cycle or resistance value is claimed |
| PoE / environment       | No base PoE/remote-power claim. Indoor dry rack/cabinet use; temperature, flame, IP, outdoor and UV claims require exact product documentation                                                                      |
| Package contents        | Panel, wiring label, cable ties, rack-mounting accessories, pair manager, earth lead and short installation instruction; exact contents per approved packing list                                                   |

### 4. STANDARDS AND TECHNICAL SCOPE

| Reference                                                           | Status / Application                                                                                                                   |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| IEC 60297-3-100:2008                                                | Mechanical reference for the 482.6 mm (19-inch) rack/panel interface                                                                   |
| ANSI/TIA-568.2-E (2024)                                             | Current balanced twisted-pair component/cabling reference; supersedes ANSI/TIA-568.2-D and the obsolete ANSI/TIA/EIA-568-C.2 reference |
| ISO/IEC 11801-1:2017 incl. Cor. 1:2018 and Amd. 1:2025 / EN 50173-1 | Generic-cabling references. Category/application compliance is conditional on the exact approved assembly, mapping and test evidence   |
| IEC 60603-7:2020                                                    | 8-way unshielded connector interface and common mechanical, electrical and environmental test reference                                |
| ANSI/TIA-607-E (2024)                                               | Telecommunications bonding/grounding reference for the panel chassis and rack; follow project design and local electrical requirements |
| RoHS / REACH / UL / ETL / CE / CPR                                  | No base claim without a valid declaration, listing or certificate identifying PL-PP50UL3 and the exact ordered construction            |