

Part Number: PL-RJ11U3

PLANET PL-RJ11U3 is a Category 3 UTP RJ11 modular plug intended for reliable voice and low-frequency telecommunication connections. The clear modular body supports visual conductor inspection before crimping, while the spring latch provides secure retention in a compatible RJ11 jack.

The PLANET commercial configuration uses 15 µin hard-gold plating on the mating contacts as standard, with 30 µin and 50 µin available as optional upgrades. The connector is designed for Category 3 voice-grade cabling applications up to 16 MHz when installed with compatible cable and correct crimp tooling.

CAT3
Up to 16 MHz

15 µin
Gold Standard

RJ11 6P4C
Unshielded

VOICE
Telephony

"Reliable Voice Connectivity. Clear Construction. Controlled Gold Plating."

1. General Description

PL-RJ11U3 is a transparent unshielded modular plug configured as RJ11 6P4C (six positions / four contacts) for voice and telecommunication applications. Contact-blade geometry must match the conductor type used; solid-conductor and stranded-conductor versions should be qualified separately. The connector is intended for compatible Category 3 telephone cable and standard RJ11 crimp termination.

CAT3 U/UTP RJ11 Connector Construction

PL-RJ11U3

Latch / Locking Clip

Secures plug in the RJ11 jack

Transparent Housing

High-impact clear polycarbonate

Gold-Plated Contacts

4 contacts; 15 µin standard

Conductor Channels

Guides telephone conductors

6P4C Contact Interface

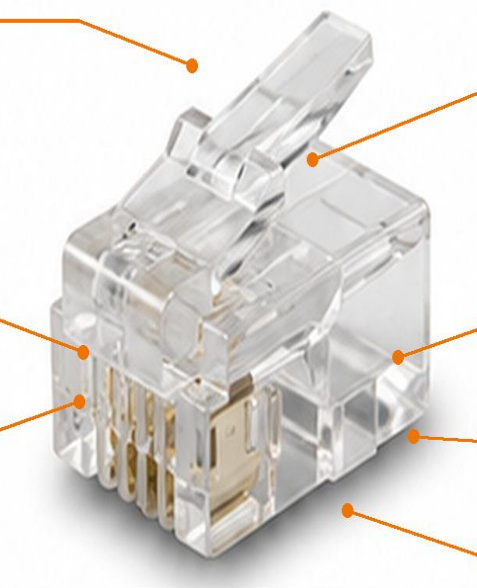
6 positions / 4 conductors

Cable Entry

For compatible Cat3 phone cable

Cable Retention Area

Crimp strain-relief section



Contact plating: 15 µin hard gold standard • 30 µin / 50 µin optional

PL-RJ11U3 CAT3 UTP RJ11 Connector - Realistic 3D Construction View

2. Construction

Parameter	Specification
Product Type	Category 3 UTP RJ11 modular plug
Part Number	PL-RJ11U3
Interface	RJ11 6P4C male modular plug (6 positions / 4 contacts)
Shielding	U/UTP / unshielded modular plug
Housing	Transparent high-impact polycarbonate; flame rating subject to resin confirmation
Contact System	4 phosphor-bronze modular contacts with gold-plated mating area
Gold Contact Plating	15 µin hard gold standard; 30 µin and 50 µin optional
Termination	Crimp termination using compatible RJ11 modular crimp tool
Cable Compatibility	Category 3 telephone cable; contact geometry must match solid or stranded conductor type
Configuration	6P4C contact arrangement; conductor assignment per required telephone wiring scheme

TECHNICAL SPECIFICATIONS

CAT3 UTP RJ11 | PL-RJ11U3

3. Electrical Characteristics

Parameter	Specification
Application Frequency	Up to 16 MHz Category 3 voice-grade application
Contact Resistance	≤ 20 mΩ qualification target
Insulation Resistance	≥ 500 MΩ qualification target
Dielectric Withstand	1000 V DC / 1 minute qualification target
Contact Configuration	6 positions / 4 active contacts (6P4C)
Shield Continuity	Not applicable — unshielded connector
Analog voice / PBX / modem / DSL interfaces using RJ11	

4. Mechanical Characteristics

Parameter	Value
Mating Durability	≥ 750 insertions qualification target
Termination Type	Crimp-on modular plug; single-use termination recommended
Wire Gauge	Typically 24-26 AWG; final range subject to approved plug/cable configuration
Cable Type	Compatible flat or round Cat3 telephone cable subject to cavity dimensions
Operating Temperature	-20°C to +60°C reference range

5. Technical Performance

PL-RJ11U3 is intended for Category 3 voice-grade UTP applications with a nominal application bandwidth up to 16 MHz. Final installed performance depends on cable construction, conductor compatibility, conductor preparation and crimp quality. For project submissions, production samples should be supported by continuity, contact-resistance and dimensional inspection records when requested.

Performance Item	Requirement	Performance Item	Requirement	Application	Requirement	Status
Bandwidth	Up to 16 MHz	Contact Resistance	≤20 mΩ target	Analog Voice	Supported	Baseline
Interface	RJ11 6P4C	Insulation Resistance	≥500 MΩ target	PBX / PABX	Supported	Baseline
Housing	Transparent PC	Dielectric Withstand	1000 V DC target	Modem / DSL	Supported*	Application
Termination	Crimp	Continuity	100% production test recommended	Visual Inspection	Supported	QA

* Electrical qualification values shown in this datasheet are engineering targets unless supported by the final production test report. ** Contact-blade geometry for solid and stranded conductors should not be treated as interchangeable without factory qualification.

APPLICATIONS, FEATURES & COMPLIANCE

PL-RJ11U3 | CAT3 UTP RJ11

6. Applications

- Analog telephone and extension lines
- PBX and PABX voice connections
- Telephone patch cords and line cords
- Modem / DSL line connections where an RJ11 interface is specified
- Building voice distribution and legacy Category 3 systems
- Intercom, alarm and low-speed communication interfaces
- Service and maintenance replacement for compatible 6P4C modular plugs

7. Transmission & Contact Performance

- Category 3 voice-grade application bandwidth up to 16 MHz
- 6P4C unshielded modular interface for four-conductor telephone connections
- Controlled contact geometry for stable crimping and low contact resistance
- Clear housing permits visual confirmation of conductor insertion before crimping

8. Key Features

- CAT3 UTP RJ11 modular plug, 6P4C configuration
- 15 µin hard-gold mating contact plating as standard
- 30 µin and 50 µin hard-gold plating available as optional upgrades
- Transparent polycarbonate body for easy conductor inspection
- Available with contact-blade geometry for compatible solid or stranded telephone conductors
- Integrated locking latch and cable-retention / strain-relief crimp area
- Designed for standard RJ11 modular crimp tooling

9. Standards & Compliance References

Standard / Certification	Status
ANSI/TIA-568.2-E	Category 3 balanced twisted-pair cabling application reference
RJ11 / 6P4C modular interface	Telephone modular interface configuration; contact assignment per application
FCC Part 68 / ACTA	Applicable only where telecom terminal-equipment certification is required; not claimed unless certified
UL 94 V-0	Housing-material option subject to confirmed resin grade and production evidence
RoHS / REACH	Subject to applicable production declaration
ISO 9001	Manufacturing quality-system reference when supported by valid factory certificate

QUALITY, OPTIONS & WARRANTY

PL-RJ11U3 | CAT3 UTP RJ11 CONNECTOR

10. Quality Assurance

Manufactured under controlled quality procedures to ensure:

- Consistent modular-body geometry, latch function and conductor-channel alignment
- Reliable gold-plated contact positioning and crimp penetration
- Controlled gold-plating thickness according to the ordered configuration

Validation: Production inspection should include visual inspection, contact alignment, latch operation, conductor-entry inspection, wire-map / continuity verification, contact-resistance sampling and plating-thickness verification.

Qualification evidence should be available when required by the consultant or project specification.

11. Gold Plating & Product Options

- Standard mating contact plating: 15 µin (0.38 µm) hard gold over nickel
- Optional mating contact plating: 30 µin (0.76 µm) hard gold over nickel
- Premium mating contact plating: 50 µin (1.27 µm) hard gold over nickel
- Solid- or stranded-conductor contact geometry, supported wire gauge and cable profile are subject to the approved production configuration and factory qualification

12. Warranty

25-Year System Warranty

Subject to use as part of an approved PLANET structured cabling / voice system, proper installation and applicable warranty terms. Individual connector replacement terms may differ by market.

Packing

BOX	100 PCS
Carton	100 Box