SYSTEM DATA SHEET — EUROPE

ATLAS-X1™ CAT 6 UNSHIELDED SYSTEM

Our best Cat 6 system features the Atlas-X1 jack and offers superior performance for mission-critical applications

- Exceeds ISO/IEC 11801 Class E and ANSI/TIA-568-C.2 Cat 6 requirements for channel, link, and component performance to support IEEE 1000BASE-T networks
- Third-party verified by Intertek Testing Services (ETL)
- Error-free performance up to 1 Gigabit Ethernet with full duplex transmission
- Provides additional performance margin to reliably support Gigabit Ethernet in high-noise environments
- Provides bandwidth required for multimedia, broadband, and video applications
- Atlas-X1 jack is independently tested to exceed performance standards, features tool-free terminations, and has PoE optimised tine geometry

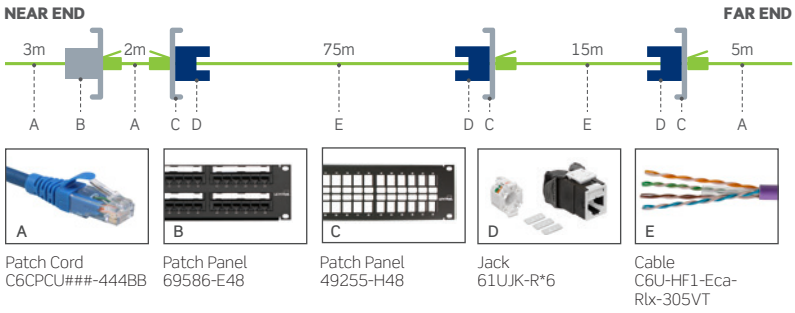
TYPICAL* SYSTEM PERFORMANCE PARAMETERS

ATLAS-X1 CAT 6 UNSHIELDED SYSTEM CHANNEL TYPICAL MARGINS*

	Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N
Standard (250MHz)	36.0 dB	33.1 dB	30.2 dB	15.3 dB	12.3 dB	8.0 dB	2.9 dB	5.8 dB
Typical Performance Margin	6.5%	10.0 dB	11.0 dB	11.0 dB	13.0 dB	6.0 dB	12.0 dB	11.0 dB

*All parameters comply with ISO/IEC 11801 Class E requirements across the entire frequency range. System performance is representative of the specific components and topologies as listed on this system data sheet. Typical performance values are based on third-party lab verified testing, in-house testing and field test data. Field installed channel performance may vary based on the channel topology, installation practices, installation environment and accuracy of the handheld tester. Only Leviton approved testers may be used. All stated performance specifications are subject to the terms and conditions of the manufacturers warranties. Details at www.leviton.com.

SYSTEM TOPOLOGY



Patch Cord C6CPCU###-444BB

Patch Panel 69586-E48

Patch Panel 49255-H48

Jack 61UJK-R*6

Cable C6U-HF1-Eca-Rlx-305VT

RECOMMENDED FOR

1000BASE-T network applications and mission-critical systems

Network applications in data centre, financial, health care, government, transportation, and education environments

PoE standards: IEEE 802.3af, 802.3at, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts

Emerging 4 pair PoE standards such as the IEEE 802.3bt, including 90 watts at the powered device (PD)

Networks with high bandwidth utilisation requirements

Any IP-based system utilising UTP cabling

AV systems for high-end conference rooms and classrooms

Cat 6 Atlas-X1

JACKS

ATLAS-X1™ CAT 6 COMPONENT-RATED QUICKPORT® JACKS

- Patented Retention Force Technology (RFT) protects against tine damage and maintains contact force between plug and jack, preventing arcing from intermittent disconnects in PoE applications
- PoE optimised tine geometry prevents arcing damage where plug and jack make contact, extending the life of the jack and ensuring maximum performance (see specification sheets for full PoE capabilities)
- Solid metal body dissipates 53% more heat than plastic, minimising damage from excess heat in PoE applications
- Available with internal shutter to protect from dust and debris
- Unique tool-free design requires no specialised termination or re-termination tool
- Short jack design supports a wider range of applications (e.g. shallow boxes, enclosures, bend radius, etc.)
- Includes interchangeable colour-coded icons for identification (VOICE, DATA, AV, blank), also offered separately in 13 colours
- Proudly manufactured in the U.S.

PATCH PANELS

CAT 6 110-STYLE AND QUICKPORT PATCH PANELS

- Exceed requirements for Category 6 described in ANSI/TIA-568-C.2 and Class E requirements described in ISO/IEC 11801
- Independently tested and verified by Intertek (ETL) to meet all TIA component, permanent link, and channel requirements
- 110-Style available in flat and angled
- QuickPort available in flat, angled, recessed, and Zero-U configurations
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- Include colour codes for T568A/B wiring schemes

PATCH CORDS

CAT 6 LSHF/LSZH PATCH CORDS

- Low profile boots for higher density blade connectivity
- 24-gauge stranded conductors for maximum flexibility and extended flex life
- Nominal outer diameter of 5.8 mm (.228") to reduce cable pathways in racks and cabinets
- Available in five colors and stocked lengths of 1, 1.5, 2, 3, and 5 metres
- Make-to-order custom lengths are available

CABLE

CAT 6 UNSHIELDED CABLE

- 23-gauge solid annealed copper wire
- 4 unshielded twisted pairs cabled together, with central separator for increased internal crosstalk performance
- Available in a range of sheath materials to suit a variety of installation environments, including CPR fire performance ratings Eca, Dca, Cca and B2ca, and colour coded for identification
- Designed and constructed to give optimal electrical performance to the following standards:
  - ISO/IEC 11801 Class E, IEC 61156-5
  - EN 50173-1 and EN 50288-6-1
  - ANSI/TIA-568-C.2
- Supports Gigabit Ethernet

PART NUMBERS - Common part numbers shown. Many additional colours, lengths, CPR EuroClass ratings, and other options available online.

JACKS			STANDARD	SHUTTERED	ADDITIONAL ICONS
Atlas-X1 Cat 6 Component-Rated QuickPort Jack			61UJK-R*6	61UJK-S*6	ICONS-IC*
PATCH PANELS			**1RU 24-PORT**	**1RU 48-PORT**	**2RU 48-PORT**
Cat 6 Flat 110-Style Patch Panel			69586-E24		69586-E48
Cat 6 Angled 110-Style Patch Panel			69587-U24		69587-U48
Flat QuickPort Patch Panel+			49255-H24	4S255-D48	49255-H48
Angled QuickPort Patch Panel +			49256-H24	4S256-D48	49256-H48
PATCH CORDS	**GREY**	**RED**	**BLUE**	**GREEN**	**YELLOW**
Cat 6 LSHF/LSZH Unshielded Patch Cord	C6CPCU###-888BB	C6CPCU###-111BB	C6CPCU###-444BB	C6CPCU###-555BB	C6CPCU###-666BB
CABLE					**VIOLET**
Cat 6 Cable, LSHF/LSZH (Additional higher EuroClass cables are available. Please contact your local Leviton representative for further information.)					C6U-HF1-Eca-Rlx-305VT

* = Colour: White (W), Lt. Almond (T), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (V), Grey (G), Black (E), Brown (B)
+ = Sold empty, load with 61UJK jacks ### = Length: 1 (010), 2 (020), 3 (030), 5 (050) metres

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