

SYSTEM DATA SHEET — EUROPE

# ATLAS-X1™ CAT 6A SHIELDED SYSTEM

Ideal for applications that require the most advanced Cat 6A performance with added signal isolation

- Exceeds ISO/IEC 11801 Class E<sub>A</sub> and ANSI/TIA-568-C.2 Cat 6A requirements for channel, link, and component requirements to support IEEE 10GBASE-T (802.3an) networks
- Third-party verified by Intertek Testing Services (ETL) or GHMT
- Ensures excellent alien crosstalk (AXT) and EMI/RFI immunity
- Error-free performance up to 10 Gigabit Ethernet with full duplex transmission
- Backwards compatible with Gigabit Ethernet to provide seamless migration path to 10GBASE-T and supports all Cat 6 and Cat 5e system requirements
- Atlas-X1 connector is independently tested to exceed performance standards, features tool-free terminations, and has PoE optimised tine geometry

### RECOMMENDED FOR

10GBASE-T network applications and mission-critical systems

Data centre channel configurations from 9 to 100 metres

Data centre applications including computer clusters and end-of-row architectures

Optimal total cost of ownership for financial, health care, government, transportation, and education environments

Network applications where EMI/RFI may be present and data security is critical

Networks with high bandwidth utilisation requirements

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)

AV systems for high-end conference rooms and classrooms

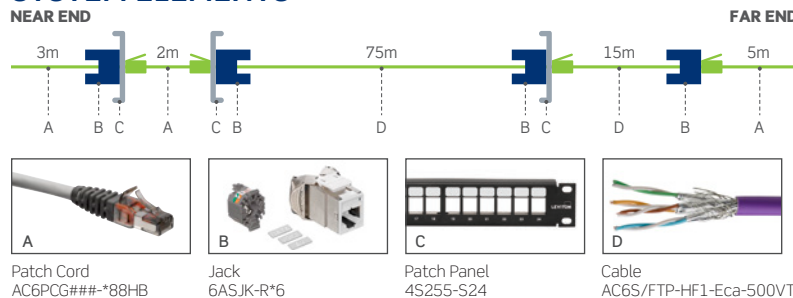
IEEE 802.11ac applications

### TYPICAL \* SYSTEM PERFORMANCE PARAMETERS

ATLAS-X1 CAT 6A SHIELDED SYSTEM CHANNEL TYPICAL MARGINS*										
	Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N	PSANEXT	PSAACR-F
Standard (500MHz)	49.4 dB	27.9 dB	24.8 dB	9.3 dB	6.3 dB	6.0 dB	21.5 dB	24.5 dB	49.5 dB	23.0 dB
Typical Performance Margin	4.5%	8.0 dB	7.0 dB	8.5 dB	9.0 dB	7.0 dB	8.0 dB	9.0 dB	17.0 dB	17.0 dB

\*All parameters comply with ISO/IEC 11801 Class E<sub>A</sub> 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](http://www.leviton.com).

### SYSTEM ELEMENTS



**Cat 6A**  
**Atlas-X1 Shielded**



## JACKS

### ATLAS-X1™ CAT 6A SHIELDED 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.)
- Tested and approved for use in air-handling spaces (plenum rating) in accordance with UL Standard 2043
- Includes interchangeable colour-coded icons for identification (VOICE, DATA, AV, blank), also offered separately in 13 colours
- Proudly manufactured in the U.S.



## PATCH CORDS

### CAT 6A SHIELDED PATCH CORDS

- Cable construction provides data security and EMI/RFI protection
- Nominal outer diameter of 6 mm (.24") to reduce cable pathway congestion in racks and cabinets
- 26-gauge stranded for maximum flexibility in any density patching environment
- Snagless boot design prevents tab breakage during moves, adds, and changes
- Excellent alien crosstalk (AXT) suppression
- Make-to-order custom lengths are available



## CABLE

### CAT 6A SHIELDED CABLE

- 23-gauge solid annealed copper wire
- 4 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 optimum electrical performance to the following standards:
  - ISO/IEC 11801 Class EA, IEC 61156-5
  - EN 50173-1 and EN 50288-10-1
  - ANSI/TIA-568-C.2
- Supports 10GBASE-T
- Meets the design requirements of 802.11ac wireless
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging



## PATCH PANELS

### ATLAS-X1 SHIELDED QUICKPORT PATCH PANELS

- Exceeds requirements for Cat 6A described in ANSI/TIA-568-C.2
- Available in QuickPort 24-port and 48-port flat or angled configurations
- Accepts all shielded QuickPort jacks
- Shielding protects against Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI), and provides excellent alien crosstalk (AXT) suppression

## 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 6A Shielded QuickPort Jack	6ASJK-R*6	6ASJK-S*6	ICONS-IC*		
PATCH PANELS	1RU, 24-PORT	1RU, 48-PORT	2RU, 48-PORT		
Atlas-X1 Flat Shielded QuickPort Patch Panel+	4S255-S24	4S255-D48	4S255-S48		
Atlas-X1 Angled Shielded QuickPort Patch Panel+	4S256-S24	4S256-D48	4S256-S48		
PATCH CORDS	GREY	RED	BLUE	GREEN	YELLOW
Cat 6A Patch Cord, LSHF/LSZH	AC6PCG###-888HB	AC6PCG###-188HB	AC6PCG###-488HB	AC6PCG###-588HB	AC6PCG###-688HB
CABLE	U/FTP	F/FTP	S/FTP		
Cat 6A Shielded Cable, LSHF/LSZH, Violet (Additional higher EuroClass ratings are available. Please contact your local Leviton representative for further information.)	AC6U/FTP-HF1-Eca-500VT	AC6F/FTP-HF1-Eca-500VT	AC6S/FTP-HF1-Eca-500VT		

\* = Jack 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)  
 + = Solid empty, load with 6ASJK jacks      ### = Length: 1 (010), 2 (020), 3 (030), 5 (050) metres