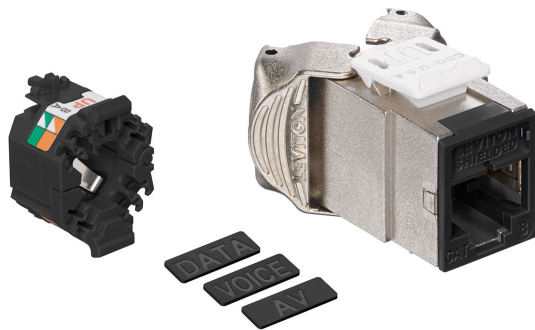**LEVITON**®

81SJK-Rx8

Atlas-X1™ Cat 8 Shielded QuickPort™ Jack

APPLICATION

The Atlas-X1 Cat 8 Shielded QuickPort Jack supports 25G/40GBASE-T networks. The shielded jack provides superior alien crosstalk (AXT) suppression and protects critical data from potential EMI/RFI (electromagnetic interference/radio frequency interference). The jack is part of a complete Atlas-X1 Cat 8 shielded system designed to support next generation BASE-T data center networks.

SPECIFICATION

The shielded jack shall meet or exceed all Category 8 requirements described in ANSI/TIA-568.2-D, as well as requirements in ISO/IEC 11801-1 Class I. The jack shall be compliant with ANSI/TIA-1096-A, cULus listed, and be independently verified for electrical transmission performance and power delivery. It shall be encased in a die-cast housing to protect from potential EMI/RFI. The jack shall support tool-free termination/re-termination and shall not require a specialized termination tool.

DESIGN CONSIDERATIONS

• Recommended for use with Leviton 1RU/24-port and 2RU/48-port shielded QuickPort patch panels

• Terminates from 26 to 22 AWG solid or stranded conductor, and especially designed to support solid 22 AWG S/FTP Cat 8 cable

FEATURES

• Patented Retention Force Technology (RFT) protects against tine damage and increases system longevity

• For Power over Ethernet, RFT maintains contact force between plug and jack, preventing arcing from intermittent disconnects

• Shielding provides EMI/RFI protection, signal isolation, and excellent alien crosstalk (AXT) suppression

• Unique design supports tool-free termination/re-termination and requires no specialized termination tool

• Short jack design supports a wide range of installation practices and improves bend radius of Cat 8 shielded cabling

• Robust IDCs can withstand 20 re-termination cycles and jack contacts are tested for 750 plug-mating cycles to ensure system longevity

• Jack supplied with interchangeable icons (voice, data, A/V, and blank, color coded to match the jack face) for easy identification and tracking of data, voice, or other functions

• Bulk icons available separately in 13 colors

• Solid metal body dissipates 53% more heat than plastic, minimizing damage from excess heat in PoE applications

• Tine geometry prevents arcing damage where plug and jack make contact

• Will exceed IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously

• ETL verified to meet the IEC 60512-99-002 standard for support of IEEE 802.3bt Type 4 PoE (90-watt) applications

STANDARDS & REGULATIONS

• ANSI/TIA-568.2-D (CAT 8)

• ISO/IEC 11801-1 (Class I)

• ANSI/TIA-1096-A (formerly FCC Part 68)

• IEC 60603-7 (includes IEC 60512-5-2)

• IEC 60512-99-002

• cULus Listed (UL 1863)

• UL 2043 Plenum Certified

• IEEE 802.3bt PoE: Type 1 (15.4 Watts) formerly 802.3af, Type 2 (30 Watts) formerly 802.3at, Type 3 (60 Watts), Type 4 (90 Watts)

• Cisco UPoE (60 Watts), UPoE+ (90 Watts)

• Power over HDBaseT™ PoH (95 W)

• RoHS 2

COUNTRY OF ORIGIN

USA

A21 SS1063ENv1
Revised January 2021

PRODUCT SPECIFICATIONS
81SJK-Rx8

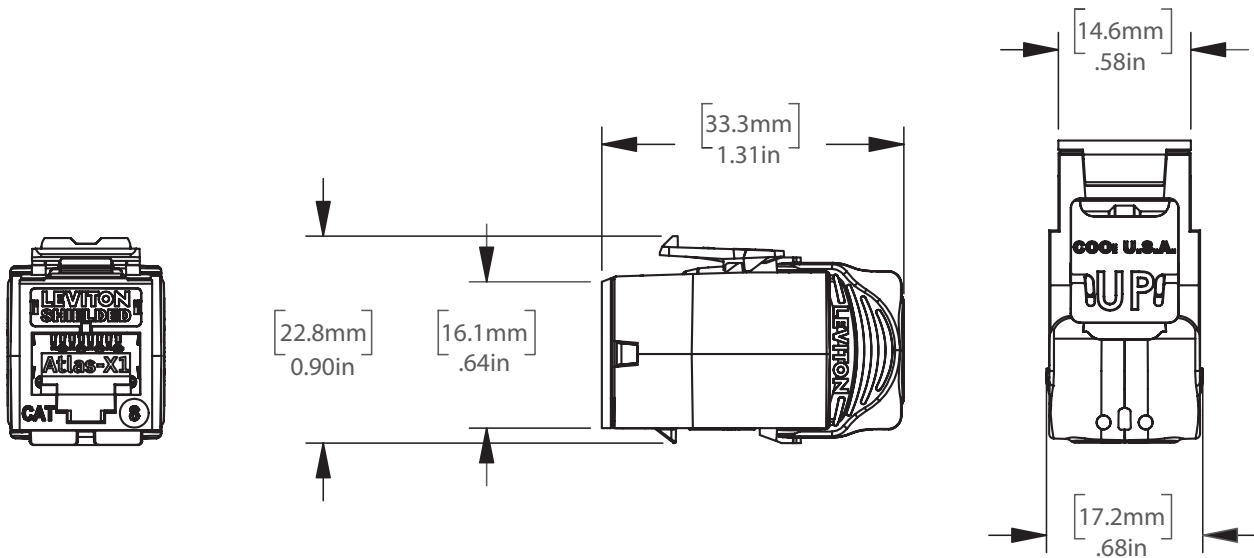## MECHANICAL SPECIFICATIONS

Dimensions:	See below
Materials:	**Jack Body:** Die-cast zinc
	Spring-Wire Contacts: High-quality, copper-based alloy, plated with 50 microinches of gold for lowest contact resistance and maximum life
Temperature (Installation):	-40 ºC to +70 ºC
Temperature (Operating):	-10 ºC to +60 ºC

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/warranty

14.6mm / .58in

33.3mm / 1.31in

22.8mm / 0.90in

16.1mm / .64in

17.2mm / .68in

PART NUMBERS	
Description	**Connector**
Atlas-X1™ Cat 8 Shielded QuickPort Connector, gray	81SJK-RG8
Atlas-X1 Cat 8 Shielded QuickPort Connector, black	81SJK-RE8

Bulk wire managers (AXSJK-BEM) can be ordered separately in 10-quantity packs.

Icons (ICONS-ICx) are available in 13 difference colors, and can be ordered separately in 72-quantity packs.

x = icon color

White (W) · Light 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)

For further support information, visit leviton.com/ns/support

NETWORK SOLUTIONS GLOBAL HEADQUARTERS

Bothell, WA, USA | leviton.com/ns

(800) 824 3005 / +1 (425) 486 2222 | appeng@leviton.com

NETWORK SOLUTIONS EUROPEAN HEADQUARTERS

Glenrothes, UK | leviton.com/ns/emea

+44 (0) 1592 772124 | customerserviceeu@leviton.com

Leviton is dedicated to designing, developing and manufacturing sustainable high-performance structured cabling and speciality cabling solutions. Network Solutions products are available worldwide in over 100 countries. Visit us online to learn more.

A21 SS1063ENv1
Revised January 2021