

Applications



Automotive Infotainment



Automotive USB
User Interface Ports



Agricultural/
Construction Equipment



Automotive



High-Speed



Shield

Discover Hirose's AU1 Series—an automotive-grade USB Type-C connector built on the trusted CX Series foundation. Engineered to meet USCAR-2 and USCAR-30 standards, the AU1 Series delivers secure mating, vibration and heat resistance, and reliable performance in demanding environments.

The CPA (connector position assurance) unit physically ensures complete insertion, while multiple keying options support flexible system integration. Compatible with USB, DisplayPort, HDMI, and other high-speed data protocols, the AU1 Series is ideal for modern automotive connectivity requirements.

KEY BENEFITS OF THE AU1 SERIES INCLUDE:

- A proven design foundation, built on Hirose's trusted CX Series platform for USB Type-C automotive use.
- Compliance with USCAR-2 and USCAR-30 standards for assured reliability.
- A connector position assurance (CPA) unit that guarantees secure and accurate mating.
- Flexible keying options, supporting both Standard and A-key configurations.
- Supports multiple high-speed transmission protocols, including USB, DisplayPort, and so much more.

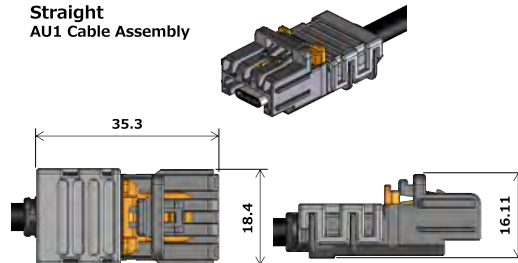


Dimensions

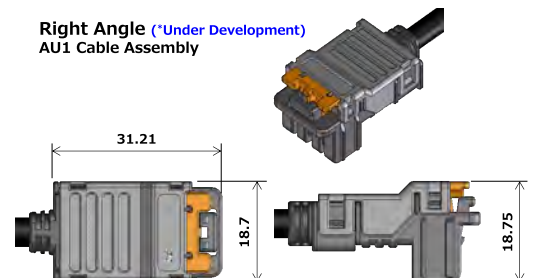
USB Type-C Connector for Automotive

Plug: 24 pos. (Double-row)

Straight
AU1 Cable Assembly

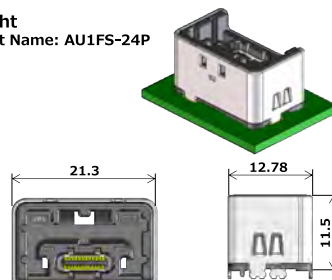


Right Angle (*Under Development)
AU1 Cable Assembly

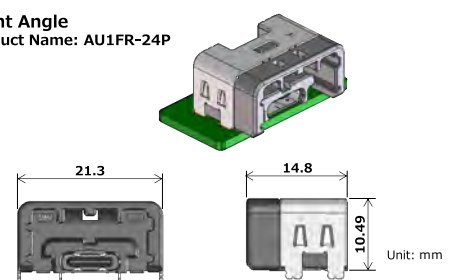


Receptacle: 24 pos. (Double-row)

Straight
Product Name: AU1FS-24P



Right Angle
Product Name: AU1FR-24P



CLICK HERE
FOR MORE INFORMATION

CLICK HERE TO ORDER
SAMPLE NUMBER:
US-AU1SAMPLE-25

Parts List for the Cable Assembly

Straight
AU1 Cable Assembly



Right Angle (*Under Development)
AU1 Cable Assembly



Type	Product Name	Image
Housing	Standard (Black)	AU1MS-24S-HU/C
	A Key (Gray)	AU1MSA-24S-HU/C
Retainer	AU1MS-24RS	
Shield Case	AU1MS-24S-SLDA AU1MS-24S-SLDB	
USB Type-C Connector	CX60-24S1-UNIT	

Type	Product Name	Image
Housing	Standard (Black)	AU1MR-24S-HU/C
	A Key (Gray)	AU1MRA-24S-HU/C
Retainer	AU1MR-24RS	
Shield Case	AU1MR-24S-SLDA AU1MR-24S-SLDB	
USB Type-C Connector	CX81B-24S	

Specifications

Material/Finish

Component	Material	Finish, Remarks
Receptacle	Insulator	Thermoplastic ^{*1}
	Contact	Copper Alloy
	Shell	Stainless Steel
Plug (Parts for the cable assembly)	Housing	PA ^{*1}
	Retainer	PA ^{*1}
	Shield Case	Stainless Steel

^{*1} This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

Performance Characteristics

Rated Current	1.25A Max. for each power pin (i.e. A1, A4, A9, A12, B1, B4, B9, B12) 0.25A for the other pins
Rated Voltage	20V AC/DC
Operating Temperature	-40 to +105°C ^{*2}
Contact Resistance	Initial: 40mΩ Max. After test: 50mΩ Max.
Withstanding Voltage	100V AC for 1 minute
Insulation Resistance	100MΩ Min. (500V DC)
Mating Durability	10 times

- RoHS2 Compliant
- Note: For more information on cable assemblies, please contact a Hirose representative.

^{*2} Includes the temperature rise due to current flow.



For additional information please go to
www.hirose.com/product/series/AU1

Specifications herein are subject to change without notice.
Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

