

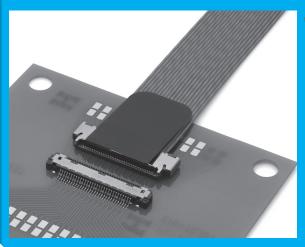
TSL SERIES

RoHS

*Please order in the unit of packaging.

Unit: mm (inch)

0.55mm PITCH HIGH-PERFORMANCE COAXIAL HARNESS



FEATURES

- It supports high-speed differential transmission of up to 32 Gbps.
 In addition to impedance control by adjusting the material, shape, and dimensions of the connector, the ground connection point and transmission path are made gentle to prevent resonance and improve the amount of attenuation.
 The effective mating length related to contact reliability is designed to be 0.5 mm, and the amount of insert penetration is reduced and the stub length design related to transmission characteristics is optimized to improve attenuation.
 Noise suppression is strengthened by a structure that surrounds the entire connector with a multi-point ground mechanism and a metal shell cover.
 Low loss and low skew are realized by combining with the high performance coaxial cable "RUOTA" of Totoku Electric Co., Ltd.
 "RUOTA" is a registered trademark of Totoku Electric Co., Ltd.
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 "BUOTA" is a registered trademark of Totoku Electric Co., Ltd.
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 "BUOTA AWG # 32 is up to 1,000mm, the skew in the pair is guaranteed to be 10ps.
 Uses a good lock structure with a click feeling.
 The connector lock can be released easily and simply by pulling the tape mounted

- on the connector.
 A nickel barrier is provided on the contact to prevent the solder from entering the connector on the board side.



- 1 [Type] TSL00: Receptacle (PCB side connector)
- (Number of contacts) 31:31 pin
- (3) [Contact tail style] L: Right angle S: Straight
- (A) [Number of packaging] A: 500 pcs. per reel

TSL21-31 S **ORDER CODE**

- (1) [Type] TSL21: Plug (Cable side connector)
- (Number of contacts) 31:31 pin
- 3 (Cable exit style) S: Straight

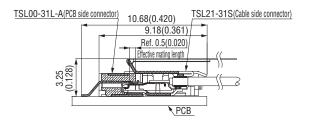
SPECIFICATIONS

Mating drawing

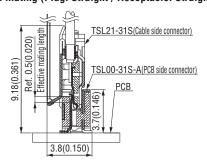
Material and plating		Electrical characteristics	
Insulator material	Glass-filled LCP(UL94V-0), Black	Rated current	#32 AWG: 0.9A per contact (when using RUOTA)
Contact material	Copper alloy	#36 AWG : 0.6A per contact (when using F	#36 AWG : 0.6A per contact (when using RUOTA)
Contact plating	Gold over Nickel	Contact resistance	100mΩ max.
		Dielectric withstanding voltage	200V AC for 1 minute
Shell material	[TSL00] Copper alloy	Insulation resistance	100MΩ min.at 250V DC
	[TSL21] Stainless	Operating temperature	-40°C to +85°C
Shell plating	Gold over Nickel	Durability of insertion and withdrawal	100 times
Ground bar material	Copper alloy	Applicable cable*	#32 / 36 AWG
Ground bar plating	Tin over Nickel		Micro coaxial cable

^{*}Please contact our sales representative for the cable specifications to be used.

Horizontal mating (Plug: Straight / Receptacle: Right angle)



◆Vertical mating (Plug: Straight / Receptacle: Straight)

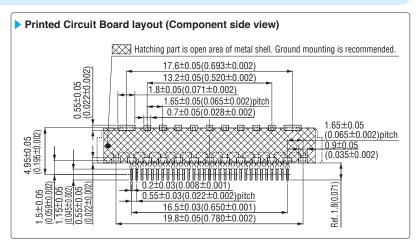


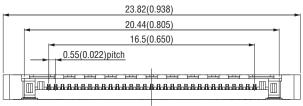
^{*&}quot;TSL21-31S" connector cannot be sold separately as it provides a complete harness.

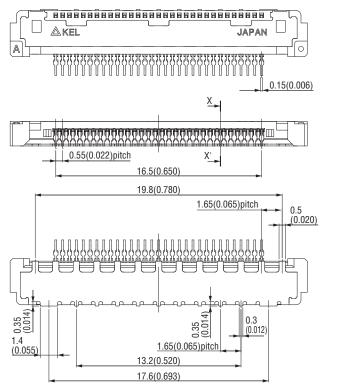


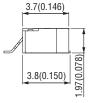
TSL00-31L-A (Receptacle, PCB side connector, Right angle)

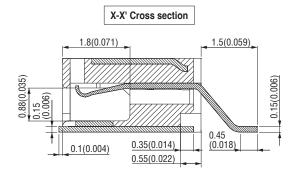
Unit: mm (inch)











Packaging style Embossed tape

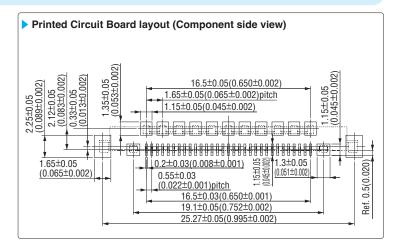
Product table

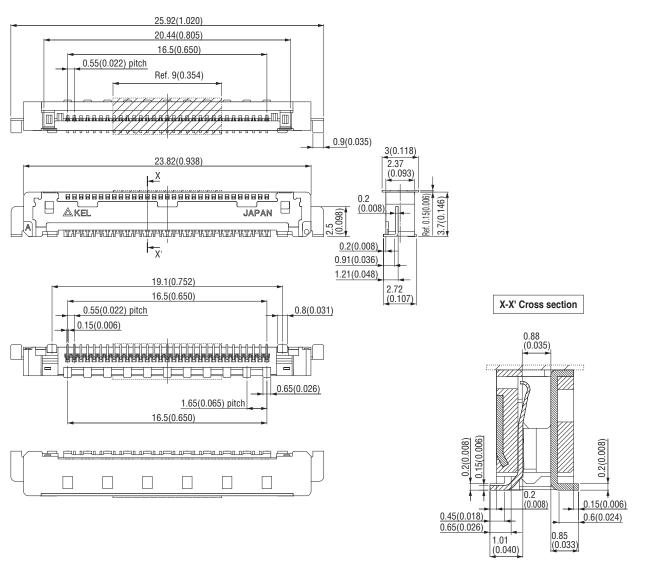
Part number	Number of packaging	
TSL00-31L-A	500	



TSL00-31S-A (Receptacle, PCB side connector, Straight)

Unit: mm (inch)





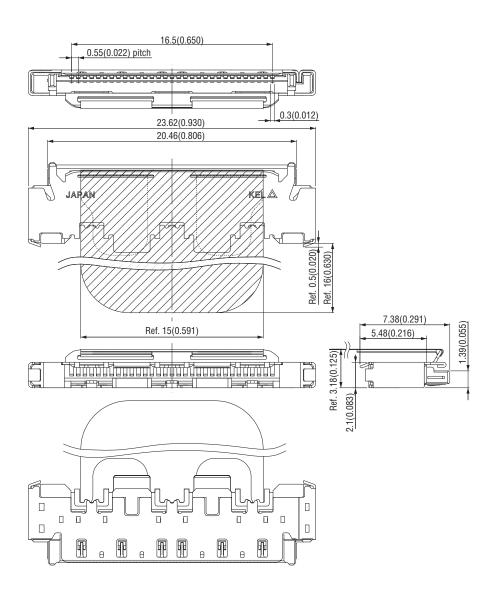
Packaging style Embossed tape

Product table

Part number	Number of packaging
TSL00-31S-A	500



TSL21-31S (Plug, Cable side connector, Straight)



*"TSL21-31S" connector cannot be sold separately as it provides a complete harness.

Please contact our sales representative for specifications of cables and harnesses to be used.