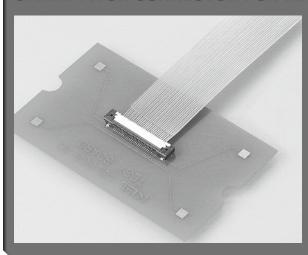


# **USLS SERIES**



## 0.4mm PITCH CONNECTOR FOR MICRO COAXIAL CABLE (STAKING TYPE)



#### **FEATURES**

- ▶ Compact connector with a low profile of 1.65 mm(0.065") and a mating width of 3.05 mm(0.120").
- ▶For micro coaxial cable (#42 AWG).
- ▶IDC of contacts all together is adopted for improved connection reliability and more compact connectors.
- ▶ Equipped with a metal shell, noise reduction and product strength are ensured.
- ► Multiple ground terminals are provided for enhanced transmission characteristics and EMS protection.
- ► Highly reliable design with effective contact displacement of 0.35mm(0.014").
- ▶ Nickel barrier of the board side contact prevents solder wicking.
- Passage of a cable through a narrow tube with a diameter of φ4 mm(φ0.157") after soldering is possible.
- ${}^{\star}$ Specially designed withdrawal jig is available



- \*Please order in multiples of the quantity per package.
- (Type) USLS00: Receptacle (PCB side connector)
- 2 [Number of contacts] 20:20 pin 30:30 pin 40:40 pin
- (3) [Number of Packaging] A:500pcs. per reel B:1,000pcs. per reel C:3,000pcs. per reel



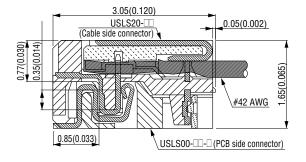
\*Please order in multiples of the quantity per package.

- (Type) USLS20: Plug (Cable side connector)
- (2) [Number of contacts] 20:20 pin 30:30 pin 40:40 pin

### **SPECIFICATIONS**

	Material and plating	Electrical Characteristics			
Insulator material	Glass-filled LCP(UL94V-0),Black	Current rating	0.25A per contact		
Contact material	Copper alloy	3	F		
Oantast ulation	Gold over Nickel	Contact resistance	100mΩ max.		
Contact plating	Nickel Barrier(Board side)	Dielectric withstanding voltage	200V AC for 1minute		
Shell material	Copper alloy				
Chall plating	Gold over Nickel(Shell 1)	Insutulation resistance	100MΩ min.at 250V DC		
Shell plating	Tin copper over Nickel(Shell 2)	Operating temperature	-40°C to +85°C		
Cover material	Glass-filled LCP(UL94V-0),Black				
Adsorption tape material	[USLS00] Polyimide	Recommended cable	#42 AWG Micro coaxial cable		

Mating Drawing Unit: mm(inch)



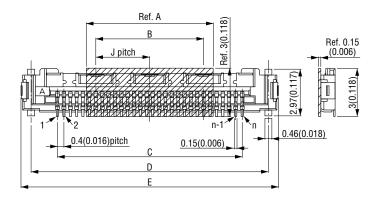
<sup>\*</sup>Plug (cable side connector) is composed of base and cover.

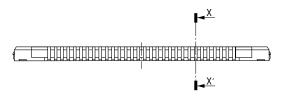


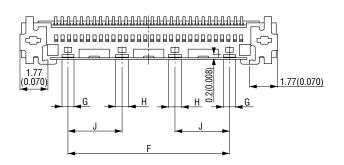
## USLS00-- (Receptacle, PCB side connector)

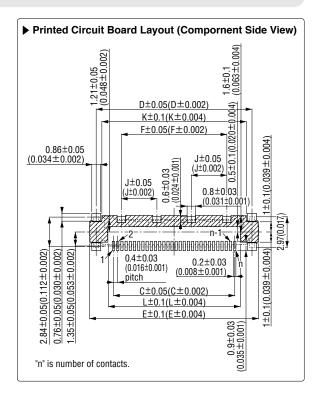
Unit: mm(inch)



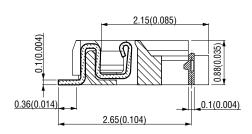








#### X-X'Cross Section



#### ▶ Ground Installation

No. of	contact	No. of ground				
2	0	7				
3	0	8				
4	0	9				

Packaging style Embossed tape

#### ▶ Product Table

Part Number	Number of packaging				
USLS00-□□-A	500				
USLS00-□□-B	1,000				
USLS00-□□-C	3.000				

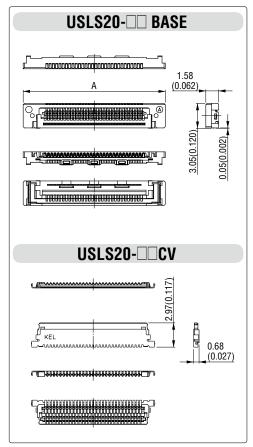
#### ▶ Product Table / Dimensions

No. of contacts	Part Number	Α	В	С	D	E	F	G	Н	J	K	L
20	USLS00-20-□	5.0 (0.197)	3.1 (0.122)	7.6 (0.299)	10.91 (0.430)	12.14 (0.478)	6.2 (0.244)	0.60 0.024)	0.6 (0.024)	3.1 (0.122)	9.8 (0.386)	8.6 (0.339)
30	USLS00-30-□	8.0 (0.315)	6.8 (0.268)	11.6 (0.457)	14.91 (0.587)	16.14 (0.635)	10.1 (0.398)	0.75 (0.030)	0.8 (0.031)	3.4 (0.134)	13.8 (0.543)	12.6 (0.496)
40	USLS00-40-□	8.0 (0.315)	10.5 (0.413)	15.6 (0.614)	18.91 (0.744)	20.14 (0.793)	14.0 (0.551)	0.80 (0.031)	0.8 (0.031)	3.5 (0.138)	17.8 (0.701)	16.6 (0.654)

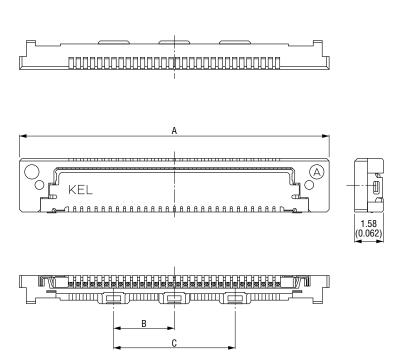


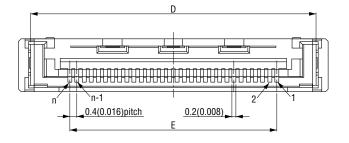
# USLS20- (Plug, Cable side connector)

Unit: mm(inch)



\*USLS20- $\Box\Box$ BASE and USLS20- $\Box\Box$ CV are component parts of USLS20- $\Box\Box$ .





"n" is number of contacts.

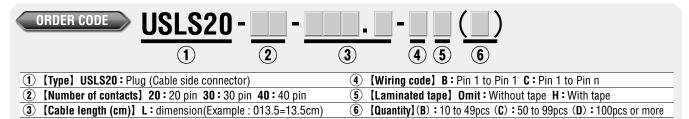
Packaging style

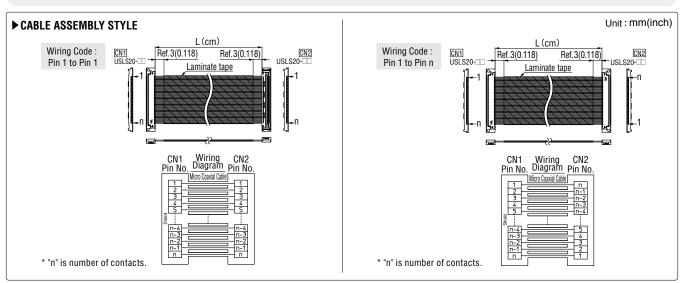
### ▶ Product Table / Dimensions

No. of contacts	Part Number	Α	В	С	D	E	Number of packaging	
20	USLS20-20	13.4 (0.528)	3.1 (0.122)	_	12.0 (0.472)	7.6 (0.299)	160	
30	USLS20-30	17.4 (0.685)	3.4 (0.134)	6.8 (0.268)	16.0 (0.630)	11.6 (0.457)	120	
40	USLS20-40	21.4 (0.843)	3.5 (0.138)	10.5 (0.413)	20.0 (0.787)	15.6 (0.614)	100	



#### **CABLE ASSEMBLY**

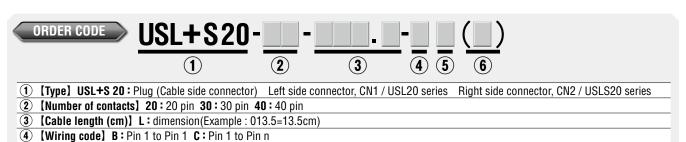




<sup>\*</sup>Please contact your local KEL sales office for inquiries regarding cable length and tolerance.

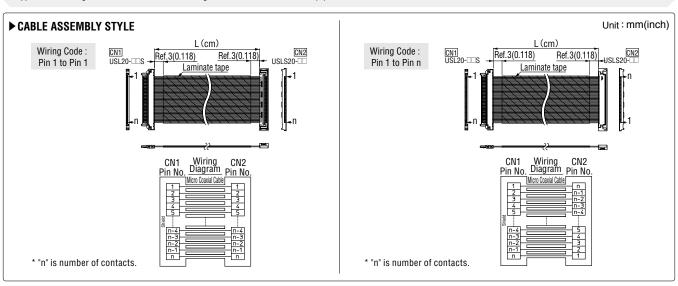
\*Applicable cable length : 4 to 100cm Minimum cable length for USLS20- $\square$ - $\square$ -BH( $\square$ ) : 7cm

<sup>\*</sup>Laminated tape is designed to be a little wider than the cable width. Please contact your local KEL sales office for further details.



(5) [Laminated tape] Omit: Without tape H: With tape
(6) [Quantity] (B): 10 to 49pcs (C): 50 to 99pcs (D): 100pcs or more

\*Applicable cable length : 4 to 100cm Minimum cable length for USL+S20-\( \sigma \)-\( \sigma \) : 7cm



 $<sup>{}^{\</sup>star}\text{Please contact your local KEL sales office for inquiries regarding cable length and tolerance}.$ 

<sup>\*</sup>Laminated tape is designed to be a little wider than the cable width. Please contact your local KEL sales office for further details.