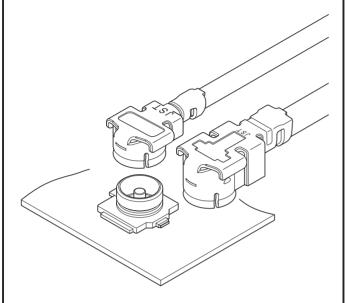


AYU1 CONNECTOR



co-axial connector

Frequency from DC to 12GHz



This is SMT type, space saving and co-axial connector, corresponding to notebook PC, thinner and lighter telecommunications apparatus, etc.

[Application]
UWB, WiMAX, Wireless LAN, Bluetooth,
DSRC, Mobile phones, PDA, GPS, Express,
etc.

- This connector can also be applicable the frequency of 12GHz or more.
- · Space saving and low profile design
- · Easy mating and unmating connector
- Adopting extra fine diameter high frequency cable

Specifications

• Impedance: 50 Ω

Frequency range: DC to 12GHz
Voltage standing wave ratio (V.S.W.R.)

	Cable type	DC to 3GHz	3 to 6GHz	6 to 12GHz
Harness	φ 0.81 (Single shield SA)	1.3max.	1.3max.	1.4max.
	φ 1.13 (Double shields TA)	1.3max.	1.4max.	1.4max.
Base		1.3max.	1.4max.	1.5max.

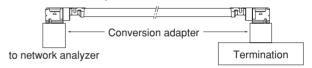
• Insertion loss (dB/m)

	Cable type	3GHz	6GHz	12GHz
Harness	φ 0.81 (Single shield SA)	5.8	9.4	14.9
	φ 1.13 (Double shields TA)	2.9	4.1	6.1
Base		_	_	_

Note: The specified values in above tables were measured by network analyzer as shown in the figure below.

[Harness]

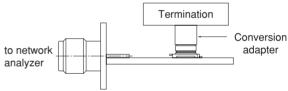
Harness: Both end harness assembly with harness of 5,000mm SMA conversion adapter: AYU1-AP-PP $\,$



[Base]

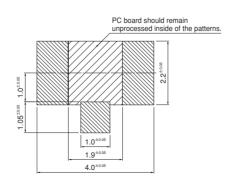
Base: AYU1-1P-02676-120

SMA conversion adapter: AYU1-AP-JJ



- Temperature range: 25°C to + 85°C (including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

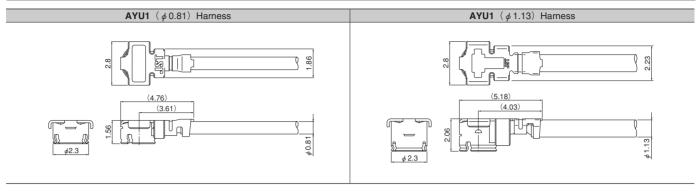
PC board layout (viewed from component side)



Note: Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above are our recommendation value

AYU1 CONNECTOR

Socket (Harness assembly)



Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated

Harness specifications

Cable type (Specifications for outer diameter and outer conductor)	Overall length L	Overall length L	
,	Harness model No. (Single end harness)	Harness model No. (Both end harness)	
ϕ 0.81 (Single shielded, SA)	AYU1-1S21-SYYYY-ZZZV (LF)	AYU1-1S21-XYYYY-000V (LF)	
φ 1.13 (Double shielded, TA) AYU1-1S13-SYYYY-ZZZV (LF)		AYU1-1S13-XYYYY-000V (LF)	

Note 1) Type of outer conductor SA: Silver-plated annealed copper wire, TA: Tin-plated annealed copper wire

Note 2) The following alphabet and number shall be put in the model No.

- X...alphabet denotes cable end treatment (D: Both end harness/same direction, R: Both end harness/reverse direction)
- Y...number denotes harness length
- Z...number denotes strip length
- V...alphabet denotes color identification (Blank: Black, G: Gray, W: White, B: Blue)

Example 1... \$\phi\$ 1..13mm (double shielded, TA) cable, connector end processing: both end harness (same direction), harness length: 251mm, wire color: black Model No.: AYU1-1S13-D0251-000(LF)

Example 2... \$\phi\$ 0.81mm (single shielded, SA) cable, connector end processing: single end harness, harness length: 800mm, strip length: [inner conductor 2.0mm, insulator 1.0mm, outer conductor 3.0mm], cable color: white Model No.: AYU1-1S21-S0800-213W(LF)

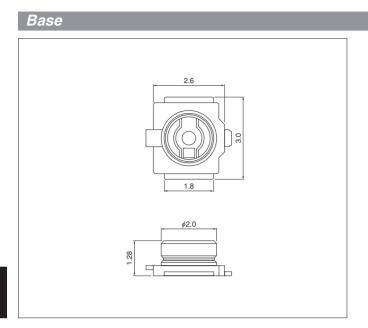
Note 3) Contact JST for details about overall length and connector end processing.

Harness overall length standard tolerance

Overall length L (mm)	Standard tolerance (mm)	
35≦L≦200	±4	
200 <l≦500< td=""><td>±8</td></l≦500<>	±8	
500 <l≦1000< td=""><td>±12</td></l≦1000<>	±12	
1000<	±1.5%	

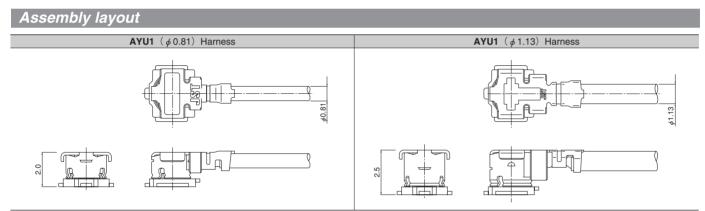
Note: The shortest length L=35mm

AYU1 CONNECTOR



Model No.	Material and Finish	Q'ty / reel
AYU1-1P-02676-120	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	5,000

RoHS compliance



Insertion and extraction jig Model No.: EJ-AYU1

