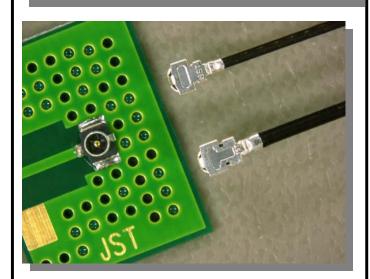
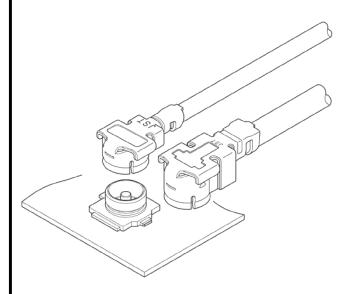
AYU SERIES: COAXIAL CONNECTOR

From DC to 12GHz



■ Applications

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



■ Features

- This product can correspond to the frequency to 12GHz. A steady transmission characteristic up to 12 GHz. As well as the conventional frequency band.
- Space saving design.
 Responding to SMT, mounting space of 3.0mm × 3.0mm,low profile of 2.0mm mated height.
- Insertion and removal of a connector is easy. Dedicated tool (Part No. EJ-AYU1) can insert and remove a connector easily.
- Extra fine high-frequency cable is adopted. It corresponds to the cable type [Dia.0.8, Dia.1.13].
- Product corresponding to RoHS.

■General specification

- The characteristic impedance: $50\,\Omega$
- Frequency range: DC to 12GHz
- ●V.S.W.R.

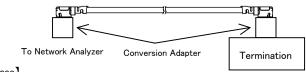
	Cable Type	DC to 3GHz	From 3 to 6GHz	From 6 to 12GHz
Socket (Harnessed)	Dia.0.81			
	(Single shield SA)	1.3 以下	1.3 以下	1.4 以下
	Dia.1.13			
	(Double shields TA)	1.3 以下	1.4 以下	1.4 以下
Base		1.3 以下	1.4 以下	1.5 以下

●Insertion loss [dB/m]

	Cable Type	3GHz	6GHz	12GHz
Socket (Harnessed)	Dia.0.81			
	(Single shield SA)	5.8	9.4	14.9
	Dia.1.13			
	(Double shields TA)	2.9	4.1	6.1
Base		_	_	_

[Socket(Harnessed)]

Socket (Harnessed): Total length 5,000mm, Connector both end harness. SMA conversion adapters: AYU1-AP-PP



[Base]

Base connector: AYU1-1P-02676-120 SMA conversion adapters: AYU1-AP-JJ

To Network Analyzer

Conversion Adapter

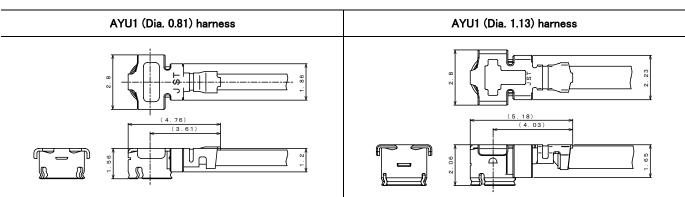
Conversion Adapter

- ●Operating temperature range: -25°C to +85°C
- ●Withstanding voltage: 200V AC / 1 minute

*Contact JST for details.

Rev.1.1

Socket (Harnessed)



Material and finish Contact: Copper alloy. Nickel-undercoated, gold-plated.
Housing: Thermoplastic resin, UL94V-0
Shell: Copper alloy. Copper-undercoated, silver-plated.

■ Specification

Cable Type (Jacket Diameter, Outer Conductor)	Total length: L	Total length: L	
	Part No.(Single end harness)	Part No.(Both end harness)	
Dia.0.81 (1 layer shield SA)	AYU1-1S21-SYYYY-ZZZV (LF)	AYU1-1S21-XYYYY-000V (LF)	
Dia.1.13 (double shields TA)	AYU1-1S13-SYYYY-ZZZV (LF)	AYU1-1S13-XYYYY-000V (LF)	

Note1) Outer Conductor SA: Silver plating annealed copper wire. TA: Tin plating annealed copper wire.

Note2) 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)

Example1) Dia.1.13 (Double shields TA) cable, both end harness(same direction), total length: 251mm, wire color: Black

Part No.: AYU1-1S13-D0251-000 (LF)

Example 2) Dia.0.81(Single shield SA) cable, single end harness, total length: 800mm, strip length: (conductor 2.0mm, dielectric1.0mm, insulator1.0mm), wire color: white

Part No.: AYU1-1S21-S0800-213W (LF)

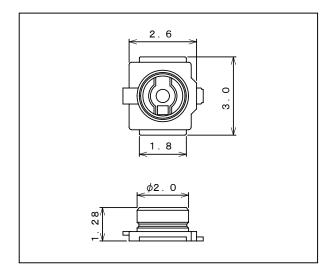
Contact JST for details about total length and specifics of terminal processing.

■Total standard tolerance for total length of harness.

Total 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%	

XShortest length L is 35mm

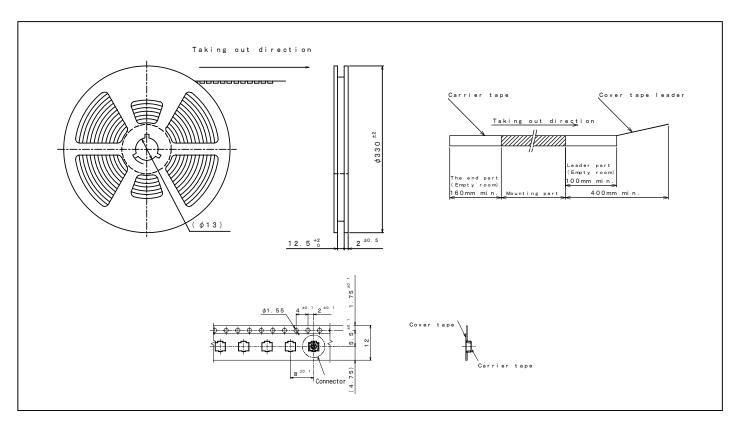
Base



Part No.	Material and Finish	Q'ty / reel
	Contact: Copper alloy. Nickel-undercoated, gold-plated. Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy. Copper-undercoated, silver-plated.	5,000

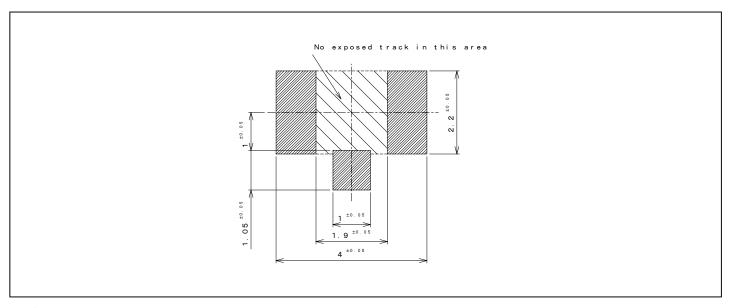
Product corresponding to RoHS.

☐ Taping Specifications ☐



- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.

PC board layout

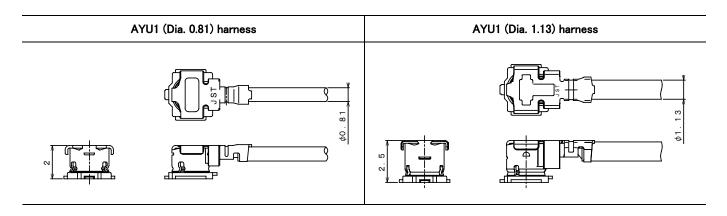


Note) Tolerances are non-cumulative: ±0.05mm for all centers.

The dimensions above should serve as a guideline.

Contact JST for details.

Assembly layout



■Dedicated tool

Part No.: EJ-AYU1

