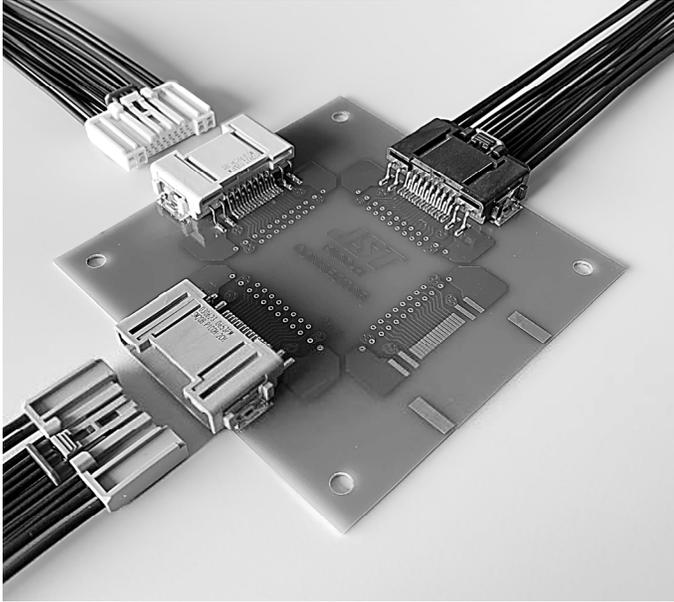


# PICO-H<sup>®</sup> CONNECTOR

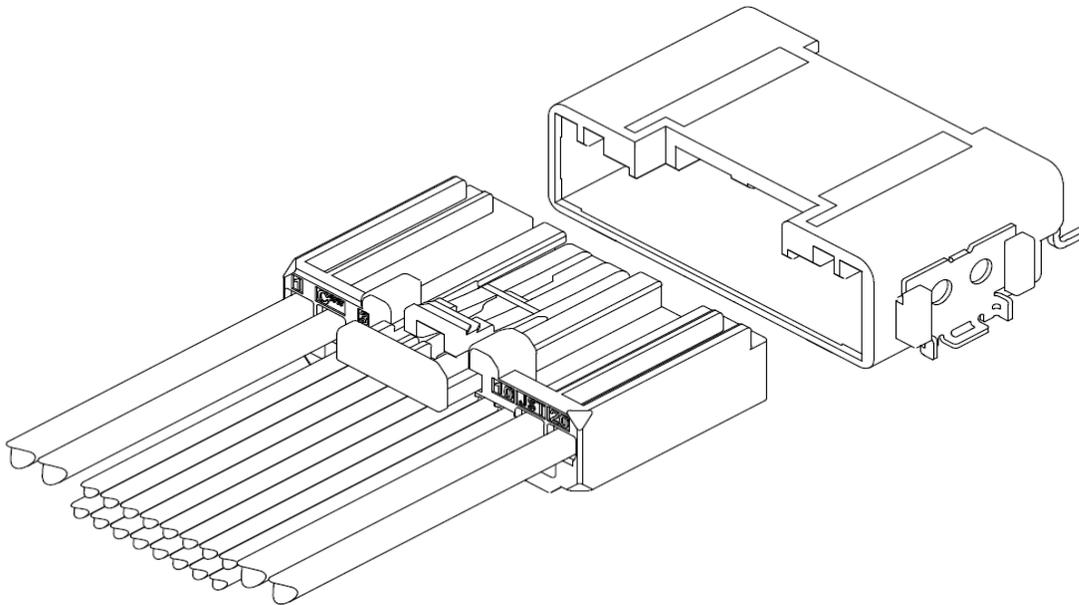
Wire-to-Board



Miniaturized 0.5mm & 1.2mm Hybrid SMT Connector System for automotive applications.

## ■ Features

- 20 Circuits: 0.5/1.2 Hybrid Ultra-Low Profile Connector
- 0.5 Terminal x 16 Circuits and 1.2 Terminal x 4 Circuits
- 1.0mm Fine Pitch SMT Board Mounting, Miniaturized Side Entry Design
- Pre-Set ISL TPA and CPA
- 3 Unique Physical and Color Key Options
- Compliant with USCAR-2 and LV214 where applicable



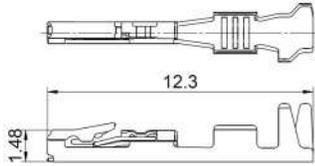
## ■ Specifications

- Current rating : 0.5 Terminal: 5A DC (0.5 mm<sup>2</sup>)  
1.2 Terminal: 14A DC (0.75 mm<sup>2</sup>)  
19A DC (1.5 mm<sup>2</sup>)
- Voltage Rating : 14V DC
- Withstanding voltage : 1,000V AC/min
- Temperature range : USCAR-2: -40°C to 100°C  
LV214 TG21: -40°C to 125°C
- Applicable wire : 0.5 Terminal: 0.13 mm<sup>2</sup> to 0.5 mm<sup>2</sup>  
1.2 Terminal: 0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>
- Insulation resistance : 100 MΩ min.

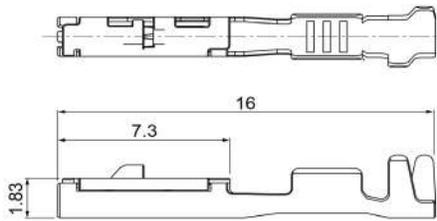
\*Compliant with ELV/RoHS2.  
\*Contact JST for details.

**Female Terminal**

● **0.5 Terminal**



● **1.2 Terminal**

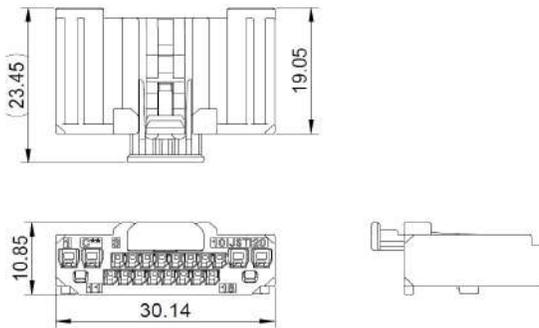


Size	Model No.	Applicable wire range		Q'ty/reel
		Conductor (mm <sup>2</sup> )	Insulation O.D. (mm)	
0.5	<b>SPICO-A011T-C05</b>	0.13 to 0.22	≤1.2	10,000
	<b>SPICO-A021T-C05</b>	0.35	≤1.4	10,000
	<b>SPICO-A031T-C05</b>	0.5	≤1.6	10,000
1.2	<b>SMSA-A031T-M1.2</b>	0.5 to 0.75	1.6 to 1.9	8,500
	<b>SMSA-A041T-M1.2</b>	1.0 to 1.5	2.1 to 2.4	6,000

**Material and Finish**

Copper alloy, tin-plated (reflow treatment)

**Female Connector**

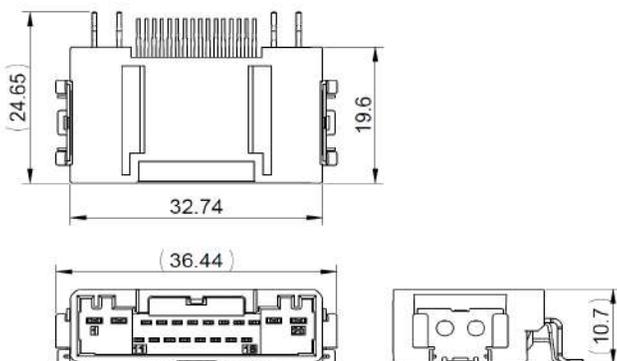


Circuits	Model No.	Housing Color	Q'ty/case
20	<b>PICOHPB-20-2AK</b>	Black	2,000
	<b>PICOHPB-20-2BS</b>	Natural	2,000
	<b>PICOHPB-20-2CH</b>	Grey	2,000

**Material and Finish**

Housing: Glass-filled PBT  
 TPA: Glass-filled PBT, Red  
 CPA: Glass-filled PBT, Red

**Male Connector**

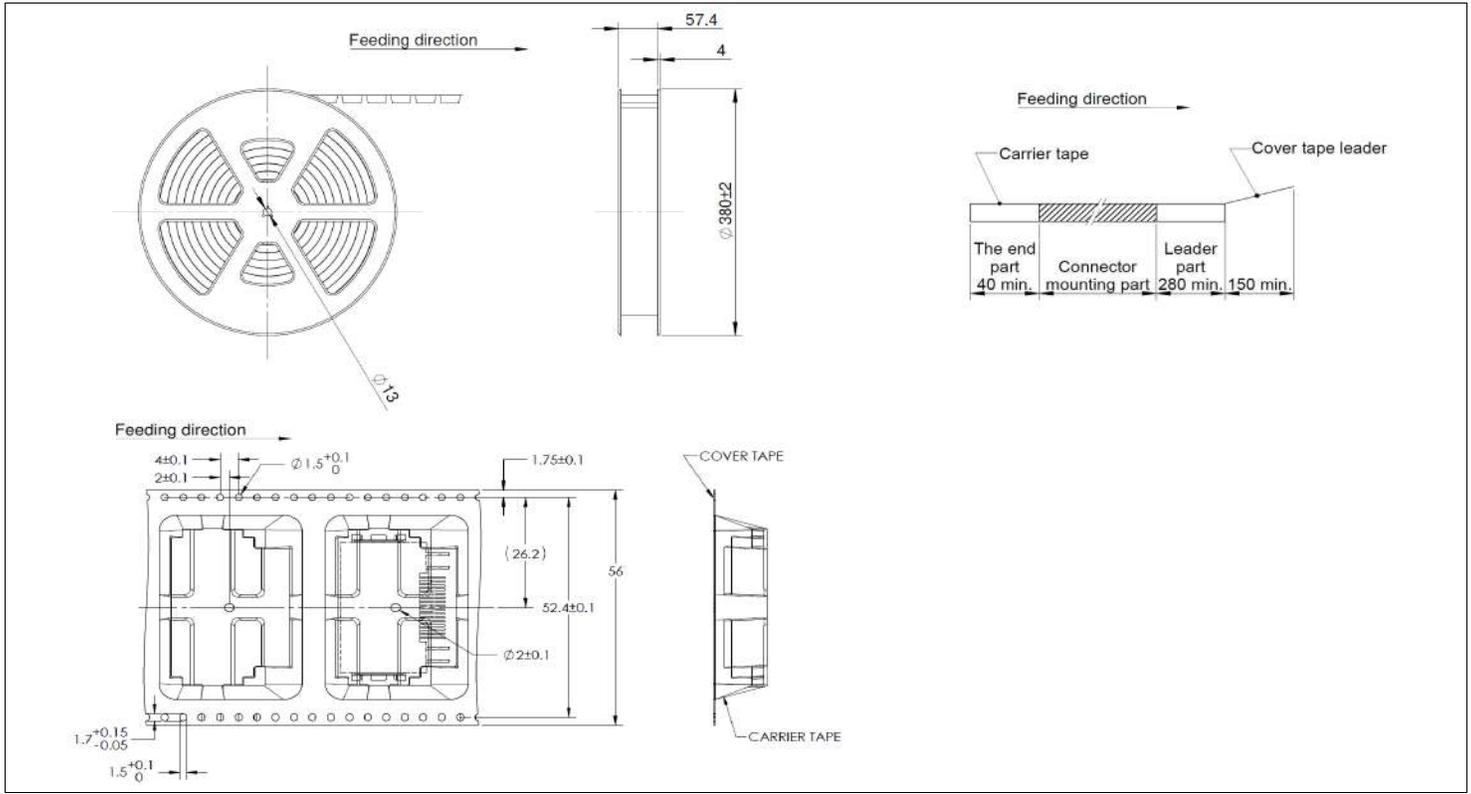


Circuits	Model No.	Housing Color	Q'ty/reel
20	<b>SM20B-PICOH-2AK</b>	Black	200
	<b>SM20B-PICOH-2BS</b>	Natural	200
	<b>SM20B-PICOH-2CH</b>	Grey	200

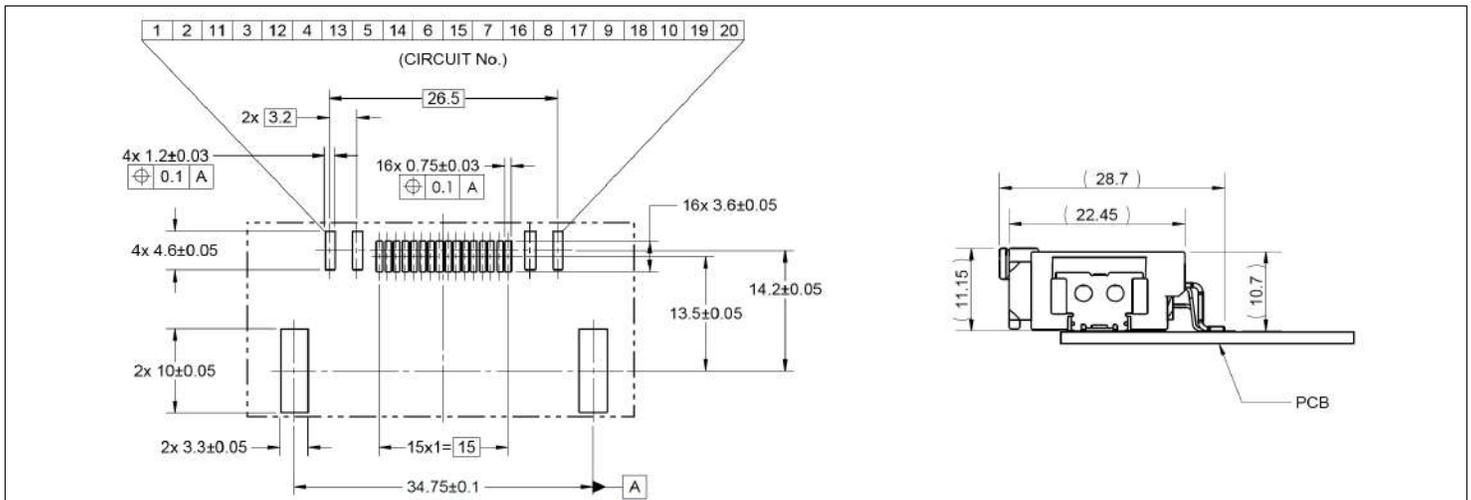
**Material and Finish**

Housing: Glass-filled LCP  
 Pin: Copper alloy, tin-plated (reflow treatment)  
 Reinforcement: Copper alloy, tin-plated (reflow treatment)

## Taping Specifications



## PC board layout, Assembly layout



## Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SPICO-A011T-C05	AP-K2N	MK/SPICO/W-A011-05	APLMK SPICO/W-A011-C05
SPICO-A021T-C05		MK/SPICO/W-A021-05	APLMK SPICO/W-A021-C05
SPICO-A031T-C05		MK/SPICO/W-A031-05	APLMK SPICO/W-A031-C05
SMSA-A031T-M1.2		MK/SPICO/W-A031-05	APLMK SPICO/W-A031-C05
SMSA-A041T-M1.2		MK/SMSA-A031-12	APLMK SMSA-A031-12
		MK/SMSA-A041-12	APLMK SMSA-A041-12

Note: 1. Contact JST for details.

2. When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.