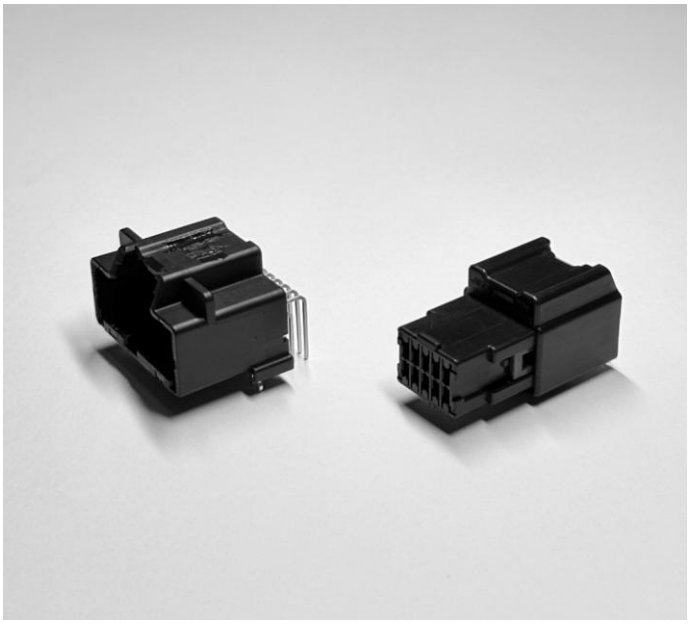
AIT CONNECTOR

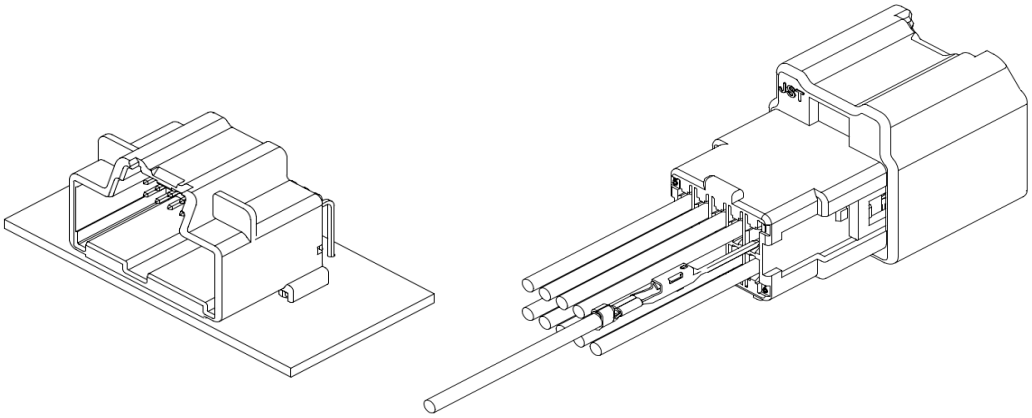
Board-to-wire/Wire-to-wire



0.64 unsealed connector series compliant with the standard USCAR footprints.

■ Features

- **Compliant with the Standard 0.64 Unsealed USCAR Footprints and USCAR Performance Standards**
- **Variations**
  Multiple Circuit Counts
  Multiple Keying/Color Options
  Multiple PCB Mounting Options
- **2.54mm Pitch**
- **Top/Side Entry Board-to-Wire and Inline Type**
- **Preset TPA & CPA**
- **Applicated Interface**
  Drawing No.: EWCAP 064-U-008-1-Z02

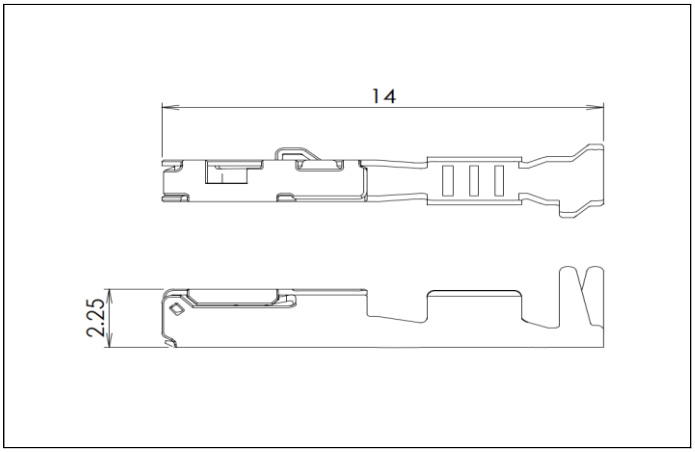


■ Specifications

●Current rating	: 7 A DC max.
●Voltage rating	: 14 V DC
●Temperature range	: -40°C to +125°C (including temperature rise in applying electrical current)
●Contact resistance	: Initial value/ 15 mΩ max After environmental tests/ 15 mΩ max.
●Insulation resistance	: 100 MΩ min.
●Applicable wire	: SAE / AVSS / CAVS 0.3 mm^2 to 0.8 mm^2

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

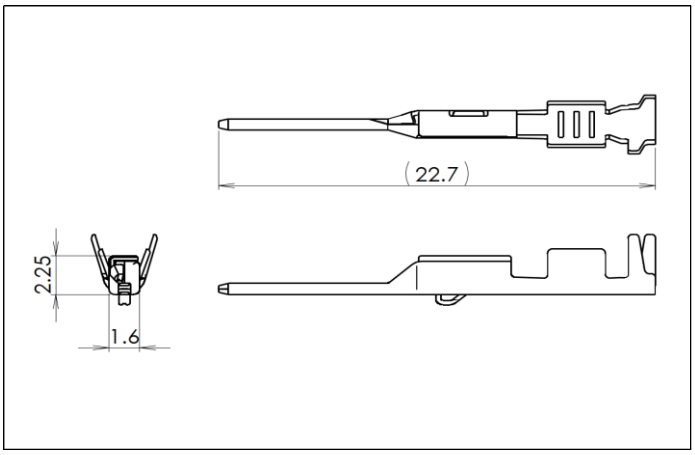
Female terminal



Size	Model No.	Applicable wire range		Q'ty/reel
		Conductor (mm²)	Insulation O.D. (mm)	
S	① **SAIT-A03T-M064**	0.3 to 0.5	≤1.9	6,500
	② **SAIT-A03GF-M064**	0.3 to 0.5	≤1.9	6,500
M	① **SAIT-A02T-M064**	0.75 to 0.8	≤1.9	6,500
	② **SAIT-A02GF-M064**	0.75 to 0.8	≤1.9	6,500

Material and Finish
① Copper alloy, tin-plated (reflow treatment) ② Copper alloy, Contact area; gold-plated Barrel area; tin-plated

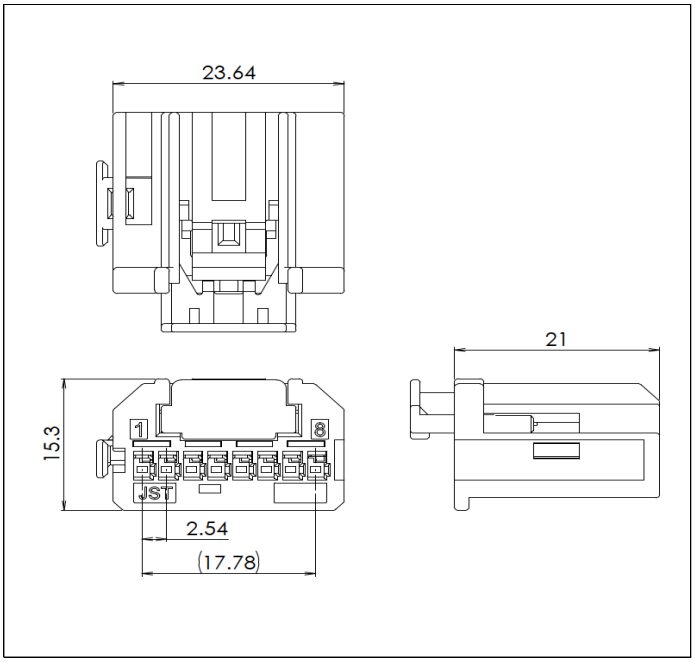
Male terminal



Size	Model No.	Applicable wire range		Q'ty/reel
		Conductor (mm²)	Insulation O.D. (mm)	
S	① **SAITW-A03T-064**	0.3 to 0.5	≤1.9	9,000
	② **SAITW-B03GF-064**	0.3 to 0.5	≤1.9	9,000
M	① **SAITW-A02T-064**	0.75 to 0.8	≤1.9	9,000

Material and Finish
① Copper alloy, tin-plated (reflow treatment) ② Copper alloy, Contact area; gold-plated Barrel area; tin-plated

Female connector



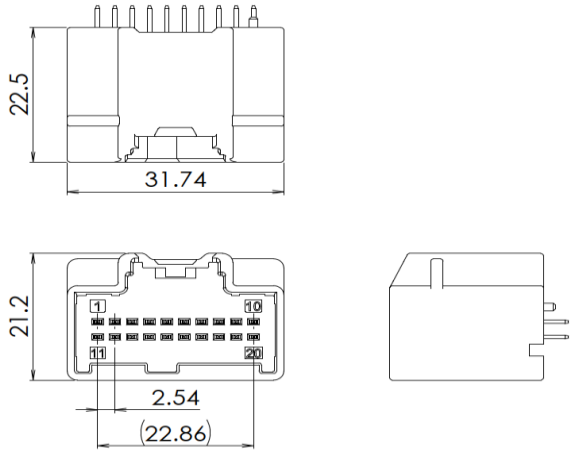
Circuits	Model No.	Housing Color	Q'ty/box
8	**AITPB-C08-1A-K**	Black	1,500

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

Male connector (Top entry type)

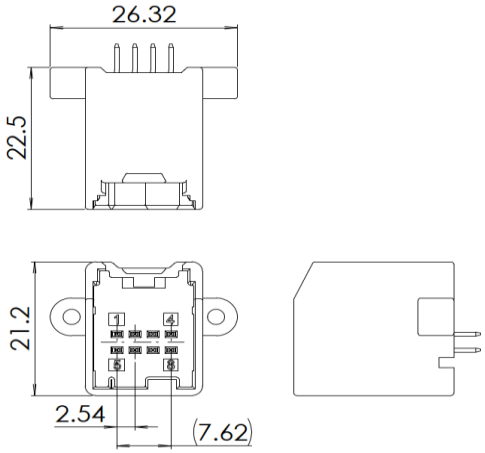
With boss

● 20 circuits

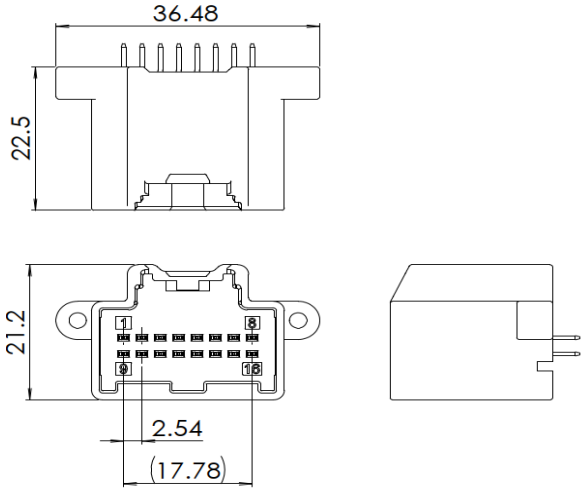


Screw hole type

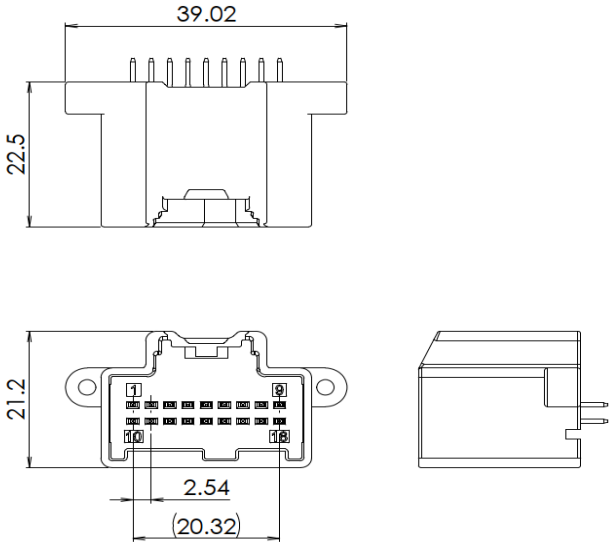
● 8 circuits



● 16 circuits



● 18 circuits

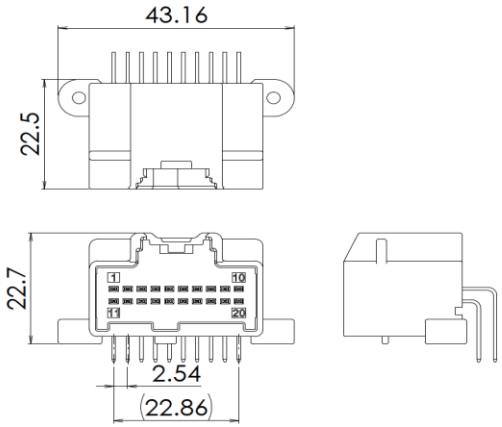


PCB Mounting Style	Circuits	Model No.	Housing Color	Q'ty/box
Boss	20	**B20B2-AIT-A2A-KS**	Black	700
		B20B2-AIT-A2C-NS	Brown	700
Screw hole	8	**B08B-AIT-A2A-KS**	Black	810
		B08B-AIT-A2B-HS	Gray	810
	16	**B16B-AIT-A2A-KS**	Black	600
		B16B-AIT-A2B-HS	Gray	600
	18	**B18B-AIT-A2F-SS**	Natural (White)	600

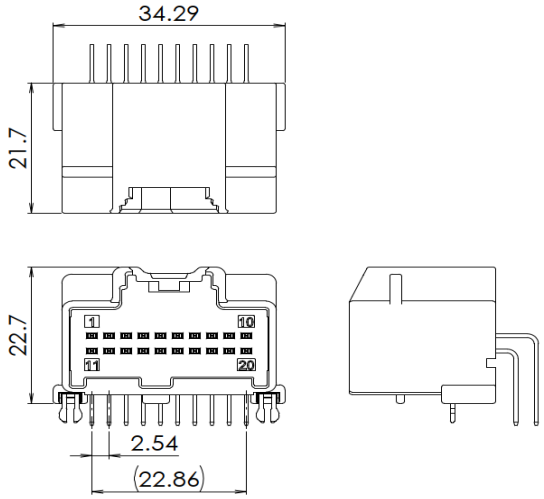
Material and Finish
Housing: Glass-filled PA Pin: Copper alloy, tin-plated

Male connector (Side entry type)

Screw hole type
● **20 circuits**



Reinforcement type
● **20 circuits**

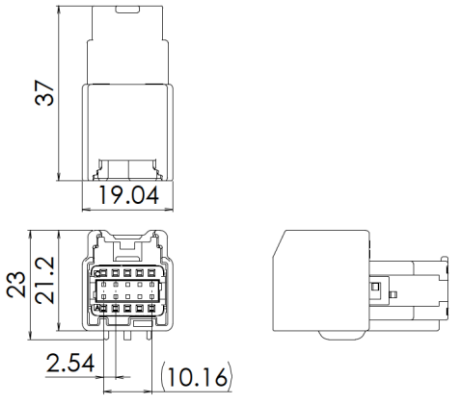


PCB Mounting Style	Circuits	Model No.	Housing Color	Q'ty/box
Screw hole	20	**S20B-AIT-A2A-KS**	Black	288
		S20B-AIT-A2B-HS	Gray	336
*Reinforcement	20	**S20B1-AIT-A2A-KS**	Black	360
		S20B1-AIT-A2B-HS	Gray	360

Material and Finish
Housing: Glass-filled PBT Pin: Copper alloy, tin-plated *Reinforcement: Copper alloy, tin-plated.

Male connector (Wire-to-wire type)

● **10 circuits**



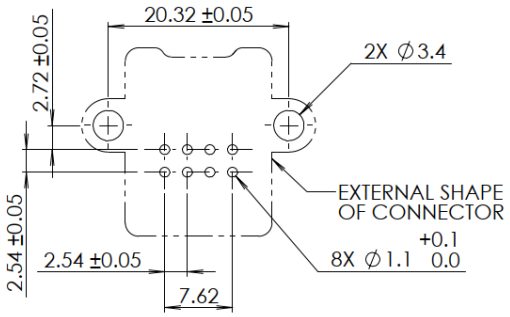
Circuits	Model No.	Housing Color	Q'ty/box
10	**AITWSB-10-2AK**	Black	1,000

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

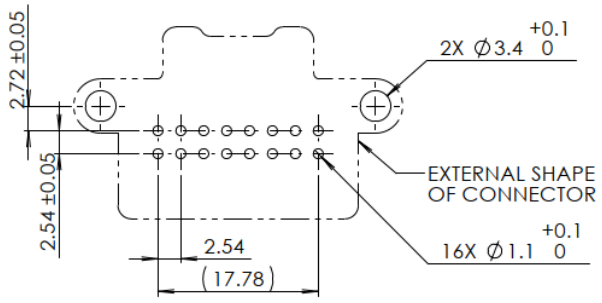
PC board layout

Top entry type
Screw hole type

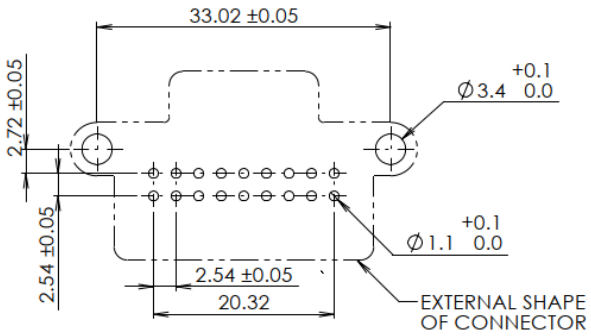
● 20 circuits



● 16 circuits

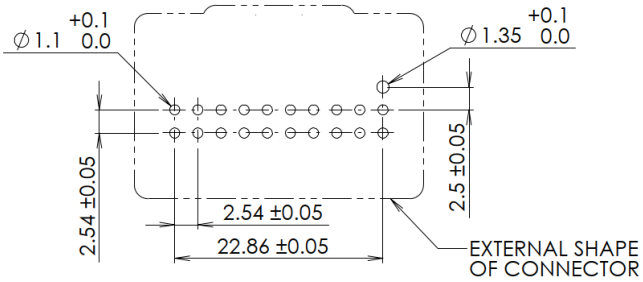


● 18 circuits



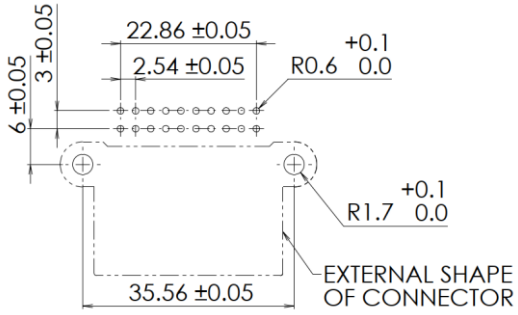
With boss

● 20 circuits



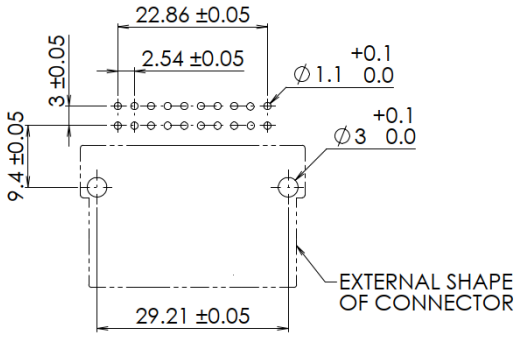
Side entry type
Screw hole type

● 20 circuits



Reinforcement type

● 20 circuits



Note: 1. Tolerances are non-cumulative.
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SAIT-A03( )-M064	AP-K2N	MK/SAIT-A03-064	APLMK SAIT-A03-064
SAIT-A02( )-M064		MK/SAIT-A02-064	APLMK SAIT-A02-064
SAITW-( )03( )-064		MK/SAITW-A03-064	APLMK SAITW-A03-064
SAITW-A02T-064		MK/SAITW-A02-064	APLMK SAITW-A02-064

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.