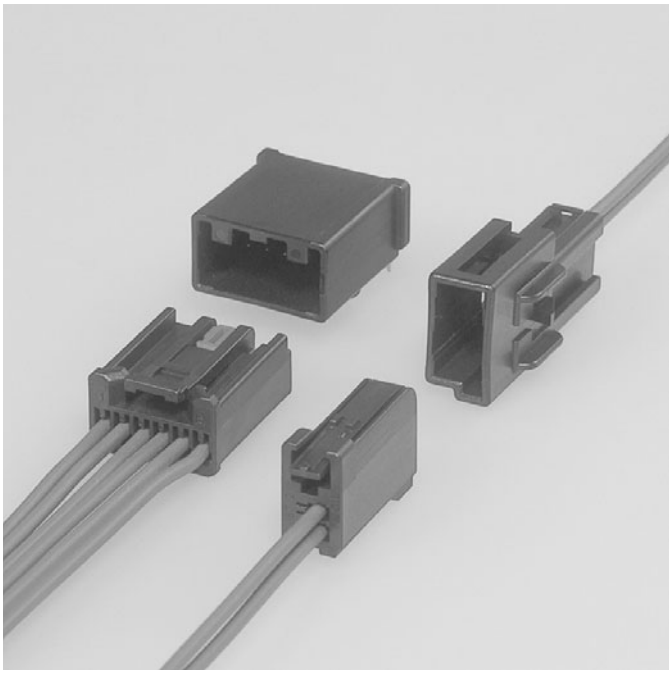
AIT-Ⅱ CONNECTOR

Board-to-wire/Wire-to-wire



0.64 unsealed low-profile connector series for use in a wide range of automotive applications.

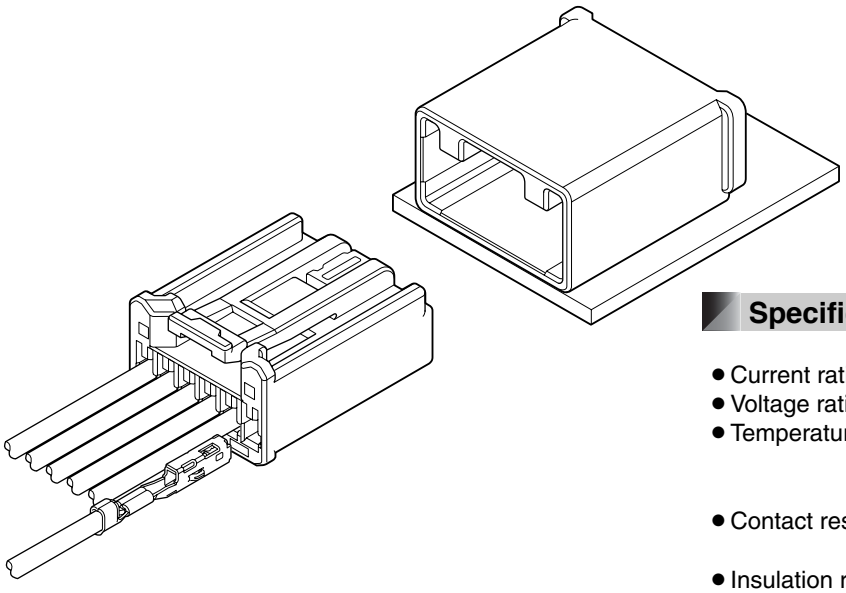
Features

●Ultra Low Profile Connector

Over 30% Height Reduction as compared to the Standard USCAR Footprints.

●Variations

There are multiple varieties of AIT-Ⅱ Connectors which can satisfy your needs.

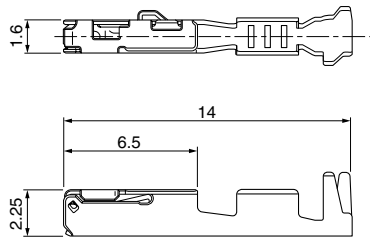


Specifications

- Current rating: 5A DC max.
- Voltage rating: 14V DC
- Temperature range: -40°C to +105°C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15mΩ max.
  After environmental testing/15mΩ max.
- Insulation resistance: 100MΩ min.
- Applicable wire: SAE/ AVSS/ CAVS/ FLRY
  0.3mm^2 to 0.85mm^2

∗ Compliant with ELV/RoHS.
∗ Contact JST for details.

Female terminal

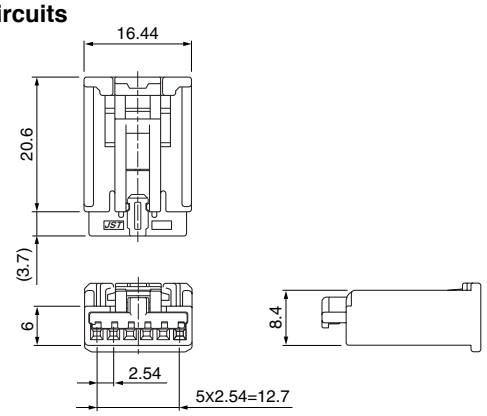


Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm^2)	Insulation O.D. (mm)	
①**SAIT-A03T-M064**	0.3 to 0.5	≤1.9	6,500
①**SAIT-A02T-M064**	0.75 to 0.85	≤1.9	6,500
②**SAIT-A03GF-M064**	0.3 to 0.5	≤1.9	6,500
②**SAIT-A02GF-M064**	0.75 to 0.85	≤1.9	6,500

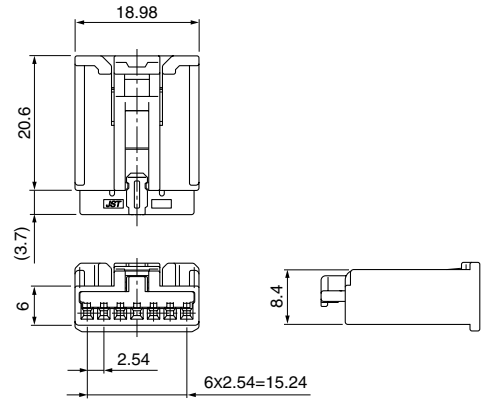
Material and Finish
①Copper alloy, tin-plated (reflow treatment) ②Copper alloy, nickel-undercoated, Contact area; gold-plated Barrel area; tin-plated

Female connector (Single row)

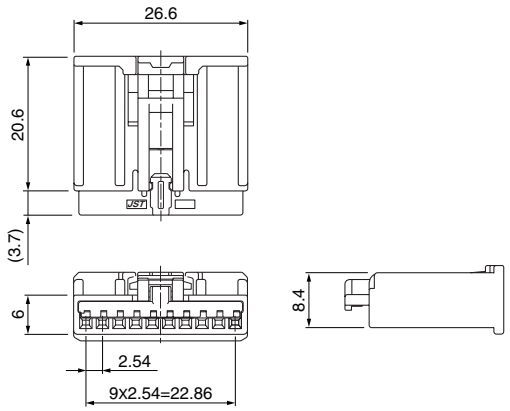
● **6 circuits**



● **7 circuits**



● **10 circuits**

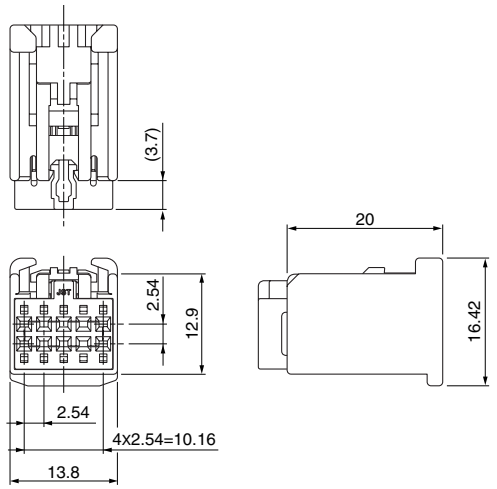


Circuits	Model No.	Q'ty/box	Housing Color
6	**AIT2PB-06-1AK**	350	Black
	AIT2PB-06-1BH	350	Gray
	AIT2PB-06-1FS	350	Natural (White)
7	**AIT2PB-07-1BH**	300	Gray
	AIT2PB-07-1FS	300	Natural (White)
10	**AIT2PB-10-1AK**	200	Black
	AIT2PB-10-1BH	200	Gray
	AIT2PB-10-1DM	200	Green
	AIT2PB-10-1FS	200	Natural (White)
	AIT2PB-10-1AD	200	Orange

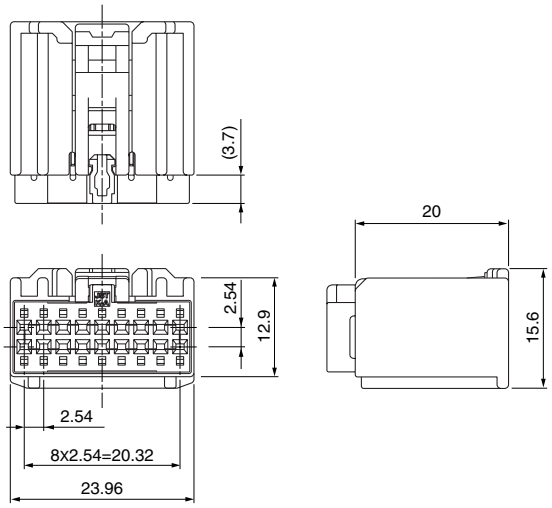
Material
Housing: Glass-filled PBT TPA: Glass-filled PBT, red

Female connector (Dual row)

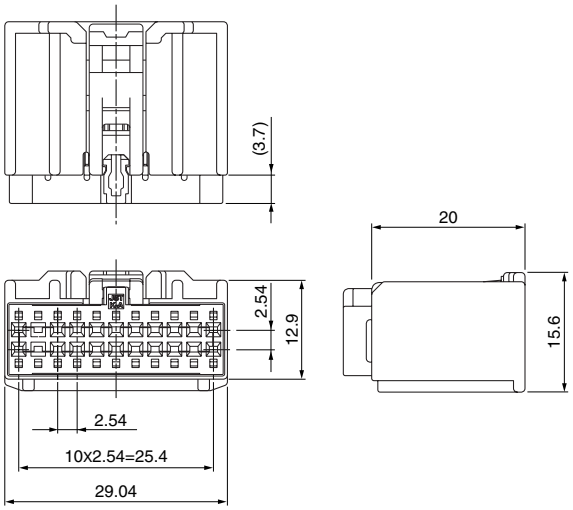
● **10 circuits**



● **18 circuits**



● **22 circuits**



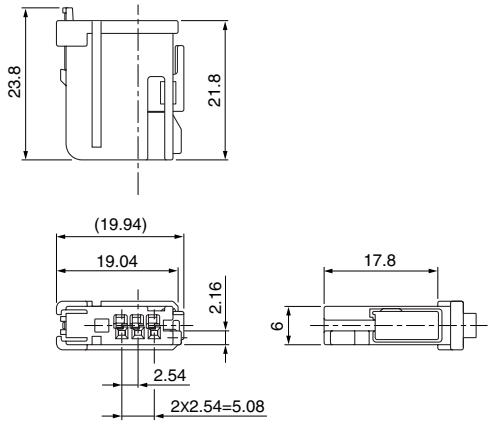
Circuits	Model No.	Q'ty/box	Housing Color	TPA Color
10	**AIT2PB-10P-2AK**	200	Black	Natural (White)
	AIT2PB-10P-2BH	200	Gray	Natural (White)
18	**AIT2PB-18-2AD**	120	Orange	Black
	AIT2PB-18-2BD	120	Orange	Natural (White)
	AIT2PB-18-2AK	120	Black	Natural (White)
	AIT2PB-18-2BH	120	Gray	Natural (White)
	AIT2PB-18-2DM	120	Green	Natural (White)
	AIT2PB-18-2FS	120	Natural (White)	Black
22	**AIT2PB-22-2AK**	100	Black	Natural (White)
	AIT2PB-22-2BH	100	Gray	Natural (White)
	AIT2PB-22-2CN	100	Brown	Natural (White)
	AIT2PB-22-2FS	100	Natural (White)	Black

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

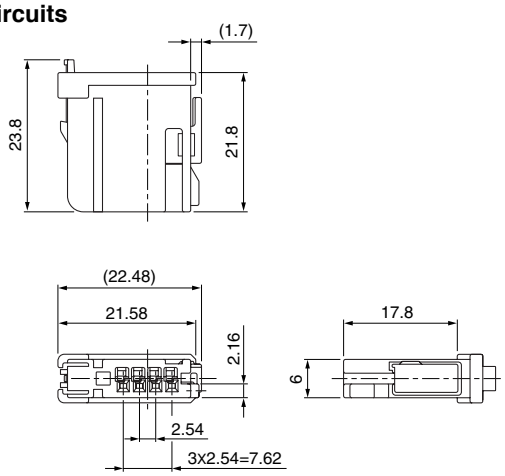
Female connector (Side Lock)

Side-Load TPA

● 3 circuits

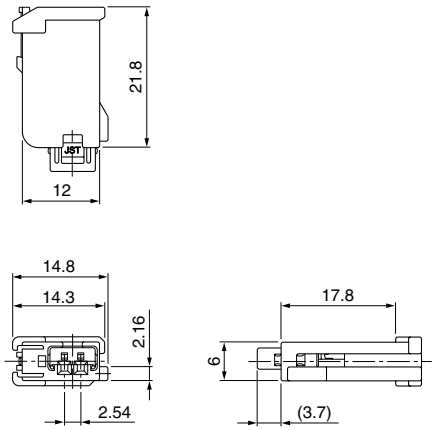


● 4 circuits

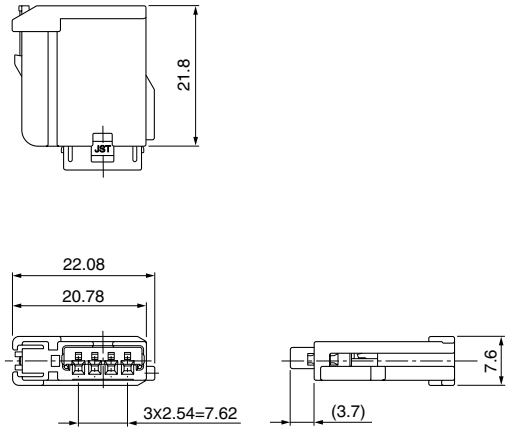


Front-Load TPA

● 2 circuits



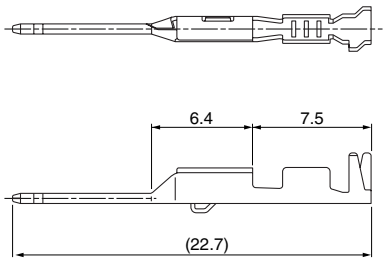
● 4 circuits



Circuits	TPA Location	Model No.	Q'ty/box	Housing Color
2	Front-Load	**AIT2PB-02G-1AK**	400	Black
		AIT2PB-02A-1FS	400	Natural (White)
3	Side-Load	**AIT2PB-03B-1AK**	400	Black
4	Front-Load	**AIT2PB-04G-1AK**	400	Black
	Side-Load	**AIT2PB-04B-1AK**	400	Black

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

Male terminal

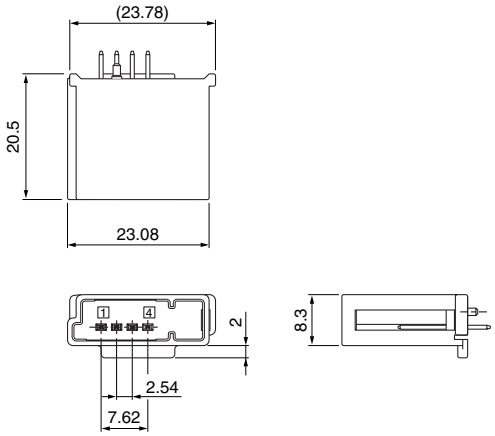


Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm^2)	Insulation O.D. (mm)	
①**SAITW-A03T-064**	0.3 to 0.5	≤1.9	7,000
①**SAITW-A02T-064**	0.75 to 0.85	≤1.9	7,000
②**SAITW-A03GF-064**	0.3 to 0.5	≤1.9	7,000
②**SAITW-A02GF-064**	0.75 to 0.85	≤1.9	7,000

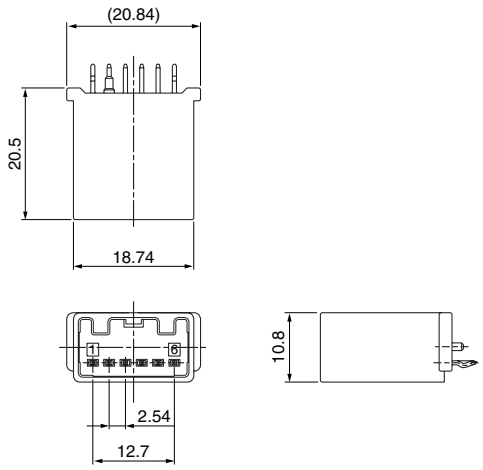
Material and Finish
①Brass, tin-plated (reflow treatment) ②Brass, nickel-undercoated, Contact area: gold-plated Barrel area: tin-plated

Male connector (Top entry type)

● **4 circuits**



● **6 circuits**



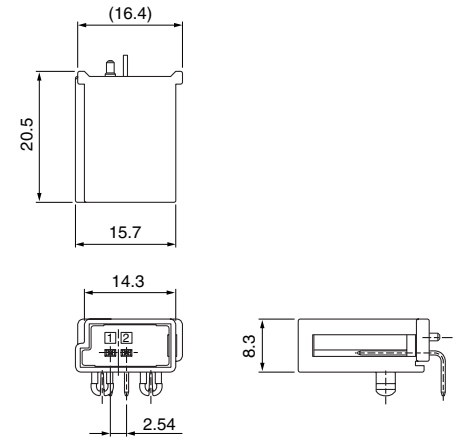
Circuits	Model No.	Q'ty/box	Housing Color
4	①**B04BA-AIT2-1AK**	108	Black
6	②**B06BA-AIT2-1AK-K**	120	Black

Material and Finish
Housing: ①Glass-filled nylon ②Glass-filled PBT Pin: Brass, tin-plated

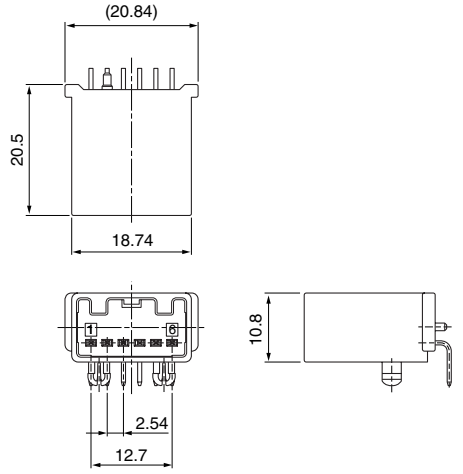
Male connector (Side entry type)

Single row

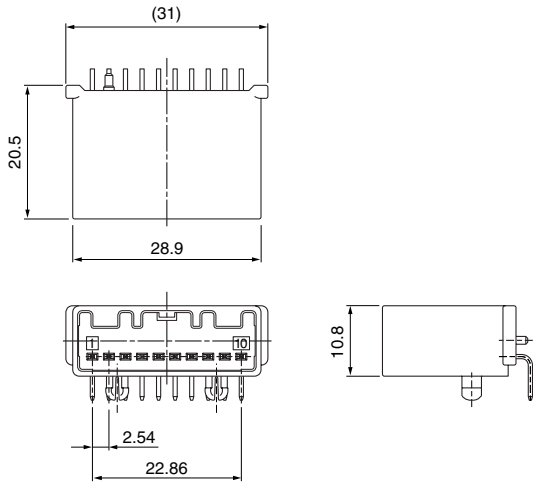
● 2 circuits



● 6 circuits



● 10 circuits



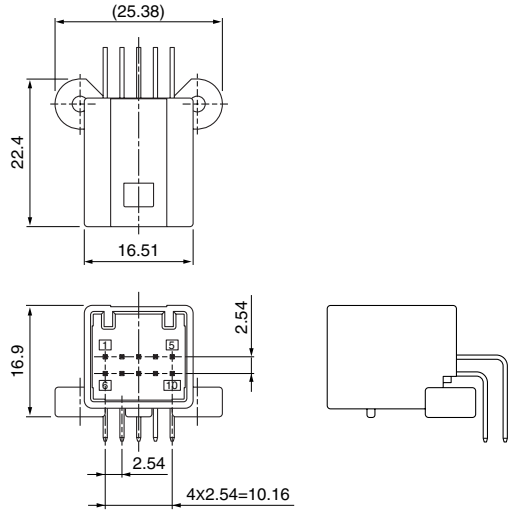
Circuits	Model No.	Q'ty/box	Housing Color
2	①**S02BA-AIT2-1AK**	96	Black
	①**S02BA-AIT2-1FS**		Natural (White)
6	①**S06B-AIT2-1AK**	80	Black
	①**S06B-AIT2-1FS**		Natural (White)
	①**S06B1-AIT2-1FS**		Natural (White)
	②**S06B1-AIT2G-1AK**		Black
10	②**S10B-AIT2G-1AK**	72	Black
	②**S10B-AIT2G-1AD**		Orange

Material and Finish
Housing: Glass-filled PBT Pin: ①Brass, tin-plated ②Brass, tin-plated, nickel-undercoated, Contact area: gold-plated

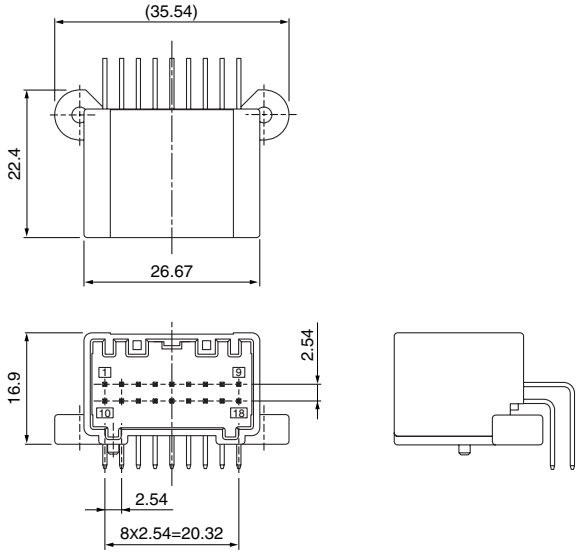
Male connector (Side entry type)

Dual row

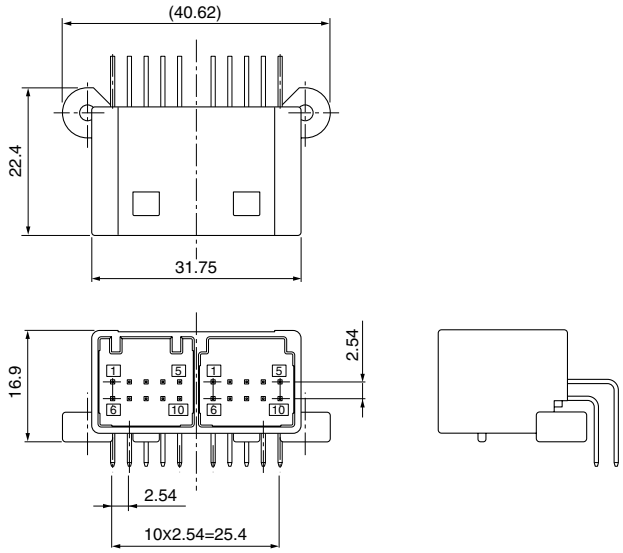
● 10 circuits



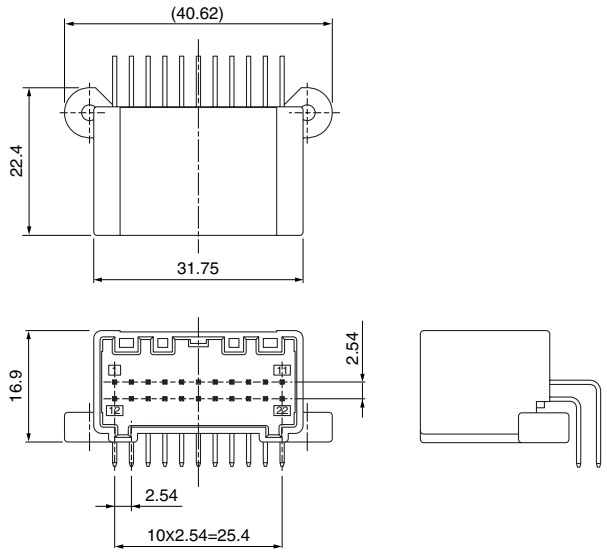
● 18 circuits



● 20 circuits



● 22 circuits

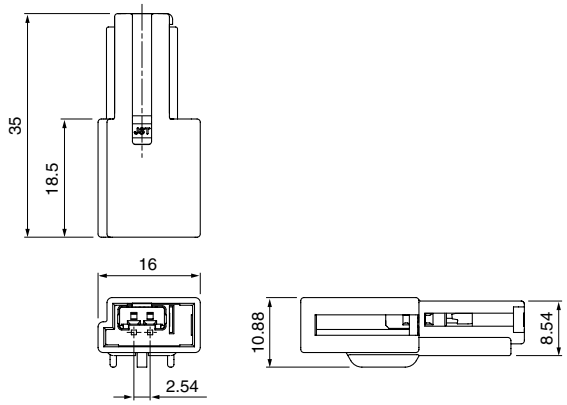


Circuits	Model No.	Q'ty/box	Housing Color
10	①**S10B-AIT2-2AK (LF)(SN)**	224	Black
	②**S10B-AIT2G-2AK**		
18	②**S18B-AIT2G-2AK**	160	Black
	②**S18B-AIT2G-2BH**		Gray
	②**S18B-AIT2G-2DM**		Green
	②**S18B-AIT2G-2FS**		Natural (White)
	②**S18B-AIT2G-2AD**		Orange
	②**S18B-AIT2G-2BD**		Orange
20	②**S20B-AIT2G-2A2BK**	128	Black
22	②**S22B-AIT2G-2AK**	128	Black
	②**S22B-AIT2G-2BH**		Gray
	②**S22B-AIT2G-2CN**		Brown
	②**S22B-AIT2G-2FS**		Natural (White)

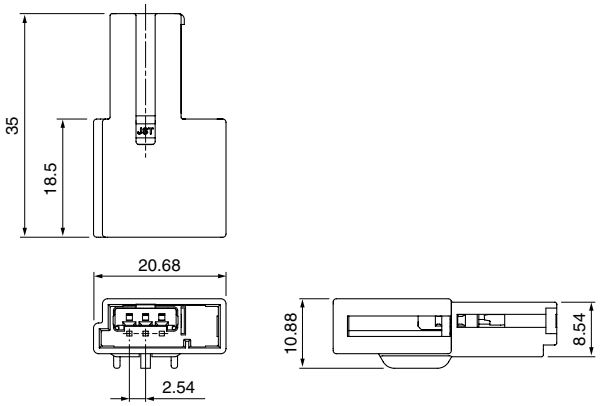
Material and Finish
Housing: Glass-filled PBT Pin: ①Brass, tin-plated ②Brass, tin-plated, Contact area: gold-plated

Male connector (Wire-to-wire)

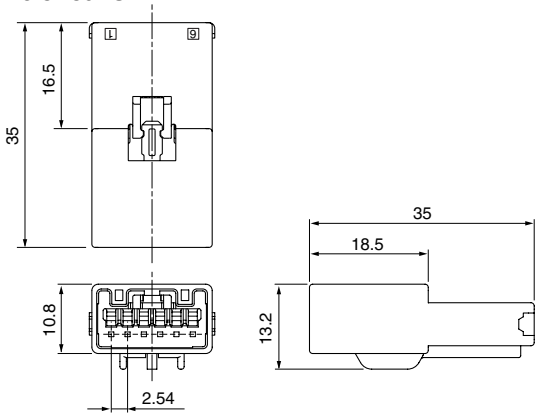
● 2 circuits



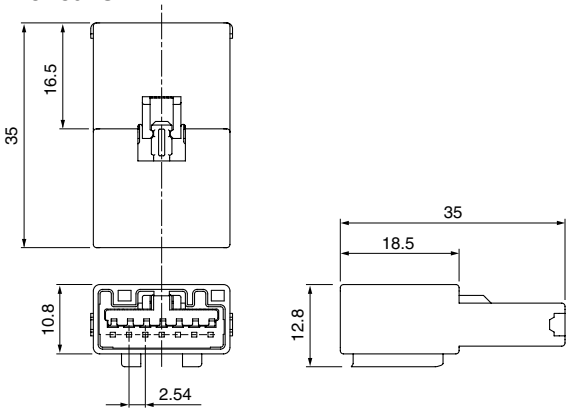
● 3 circuits



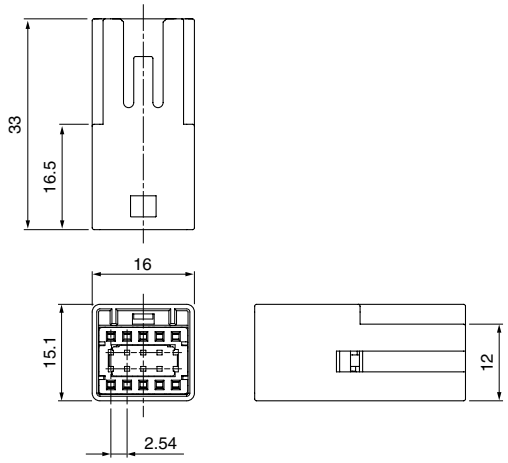
● 6 circuits



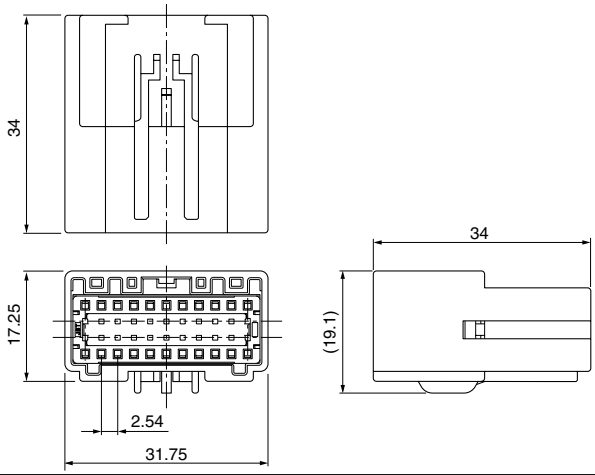
● 7 circuits



● 10 circuits (Dual row)



● 22 circuits (Dual row)



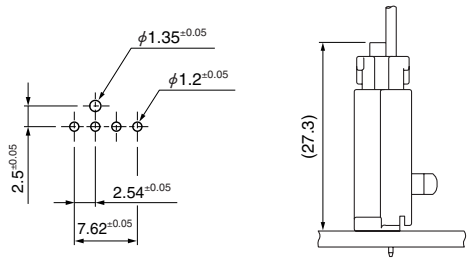
Circuits	Model No.	Q'ty/box	Housing Color	TPA Color
2	**AIT2WSB-02A-1AK**	300	Black	Red
3	**AIT2WSB-03A-1AK**	200	Black	Red
6	**AIT2WSB-06-1AK**	150	Black	Red
	AIT2WSB-06-1FS	150	Natural (White)	Red
7	**AIT2WSB-07-1FS**	150	Natural (White)	Red
	AIT2WSB-07-1FK	150	Black	Red
10	**AIT2WSB-10A-2AK**	150	Black	Natural (White)
	AIT2WSB-10A-2BH	150	Gray	Natural (White)
22	**AIT2WSB-22-2AK**	60	Black	Natural

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

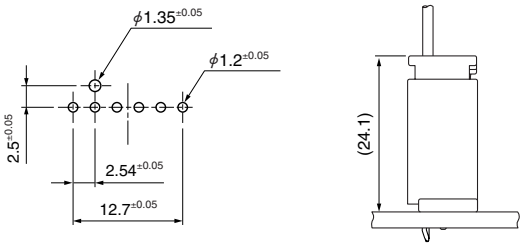
PC board layout, Assembly layout

Top entry type

● 4 circuits



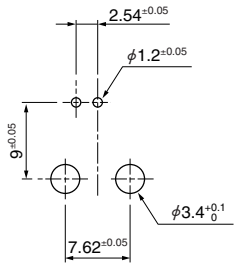
● 6 circuits



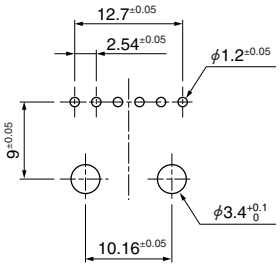
Side entry type

Single row

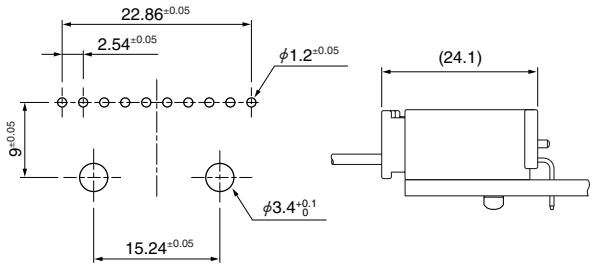
● 2 circuits



● 6 circuits

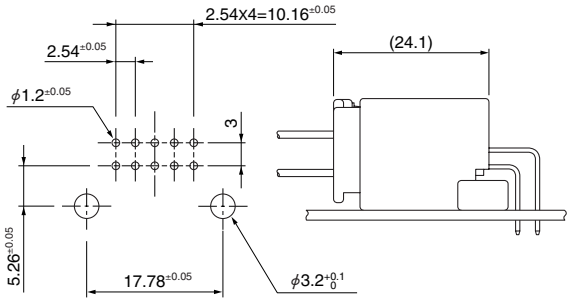


● 10 circuits

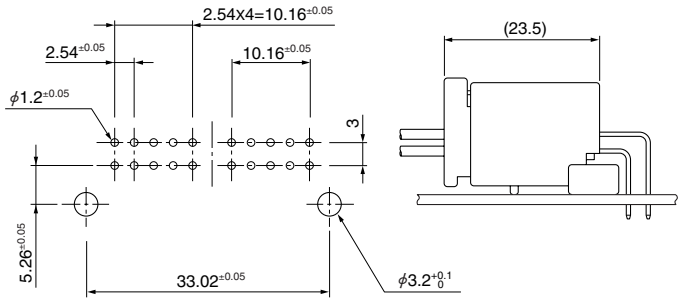


Dual row

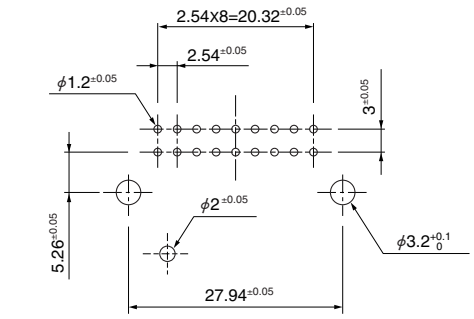
● 10 circuits



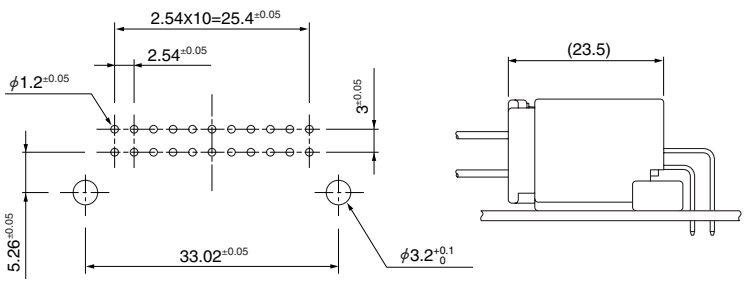
● 20 circuits



● 18 circuits



● 22 circuits



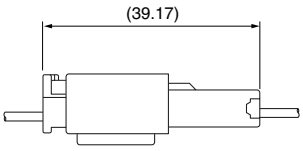
Note: 1. Tolerances are non-cumulative.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as guideline. Contact JST for details.

Assembly layout

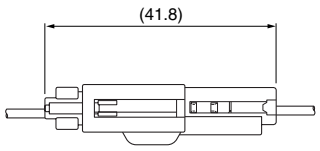
Wire-to-wire type

- **Single row**

AIT2WSB-( )-1( )

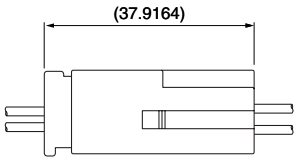


AIT2WSB-( )A-1( )

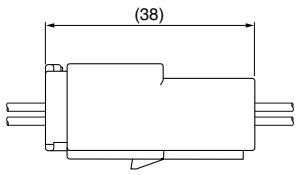


- **Dual row**

AIT2WSB-( )A-2( )



AIT2WSB-22-2AK



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-A03( )-064		MK/SAITW-A03-064	APLMK SAITW-A03-064
SAITW-A02( )-064		MK/SAITW-A02-064	APLMK SAITW-A02-064

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

Mouser Electronics

Authorized Distributor

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JST:

AIT2PB-02A-1AK AIT2PB-02A-1FS AIT2PB-03B-1AK AIT2PB-04B-1AK AIT2PB-04M-1AK AIT2WSB-10A-2AK AIT2WSB-10A-2BH AIT2WSB-22-2AK AIT2PB-22-2AK AIT2WSB-02A-1AK AIT2WSB-03A-1AK AIT2WSB-06-1AK AIT2WSB-06-1FS AIT2WSB-07-1FK AIT2PB-10-1AK AIT2PB-10-1BH AIT2PB-10-1DM AIT2PB-10-1FS AIT2PB-10P-2AK AIT2PB-10P-2BH AIT2PB-06-1AK AIT2PB-06-1FS AIT2PB-07-1BH AIT2PB-07-1FS AIT2PB-10-1AD SAITW-A03T-064 SAITW-A03GF-064 S06B-AIT2-1AK S10B-AIT2G-1AK AIT2PB-18-2AK AIT2PB-18-2DM AIT2PB-04G-1AK AIT2PB-18-2BH AIT2PB-22-2FS AIT2PB-02G-1AK B04BA-AIT2-1AK AIT2PB-22-2BH

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