

# Tab Connector

## XT3

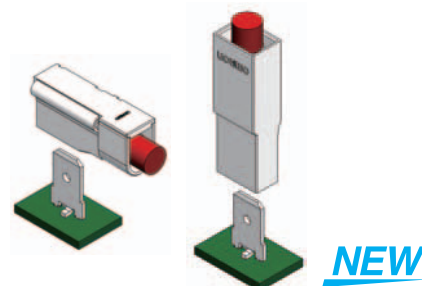
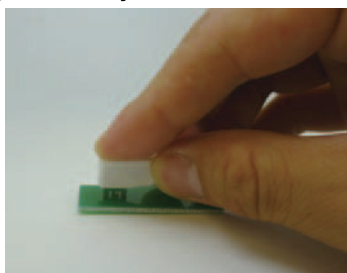
### Omron Tab Connectors

Designed to provide high operability and occupy minimal space.

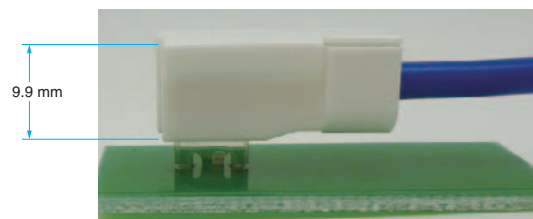
- Low insertion force and solid connection
- Two options: Flag type and Straight type
- Flag type ideal for low height requirements

#### Major characteristics

- Prevents damage to board thus saves time and increases productivity



- 9.9 mm low-profile flag type design



#### Ratings and Specifications

Item	Model	XT3B/XT3W	XT3A
Rated Current	AWG22	3 A	25 A
	AWG20	5 A	
	AWG18	7 A	
	AWG16	12 A	
	AWG14	15 A	
	AWG12	20 A	
	AWG10	25 A	
Rated Voltage	250 VAC/DC		
Insulation Resistance	1000 MΩ min		---
Withstanding Voltage	2200 VAC, 60 s (Leak current 1 mA or less)		---
Operating Temperature	-40 to +105°C (Include temperature rising of connector itself)		

#### Materials and Finish

Type	Model	XT3B	XT3W	XT3A
Socket Housing		Nylon resin(UL94 V-0)/White IEC 60335-1 ed.5	---	---
Socket Contact		---	Copper alloy/tin plating	---
Plug Tab Terminal		---	---	Copper alloy/tin plating

#### Applicable Wires

Electric wire	Stranded wire	
Conductor size	XT3W-□441-12: 1 pcs crimped	1.75 to 5.20 mm <sup>2</sup>
	XT3W-□441-12: 2 pcs crimped	0.50 + 1.25 mm <sup>2</sup>
	XT3W-□442-12: 1 pcs crimped	0.76 to 2.09 mm <sup>2</sup>
	XT3W-□442-12: 2 pcs crimped	0.50 + 0.50 mm <sup>2</sup> 0.75 + 0.75 mm <sup>2</sup>
	XT3W-□443-12: 1 pcs crimped	0.31 to 0.89 mm <sup>2</sup>
Insulation diameter	XT3W-□441-12	3.0 to 5.1 mm dia.
	XT3W-□442-12	2.2 to 3.4 mm dia.
	XT3W-□443-12	1.5 to 3.1 mm dia.

#### Ordering Information

Type	Appearance	Model	Minimum ordering quantity (pieces)
Plug Tab Terminal		XT3A-1141-2	5,000

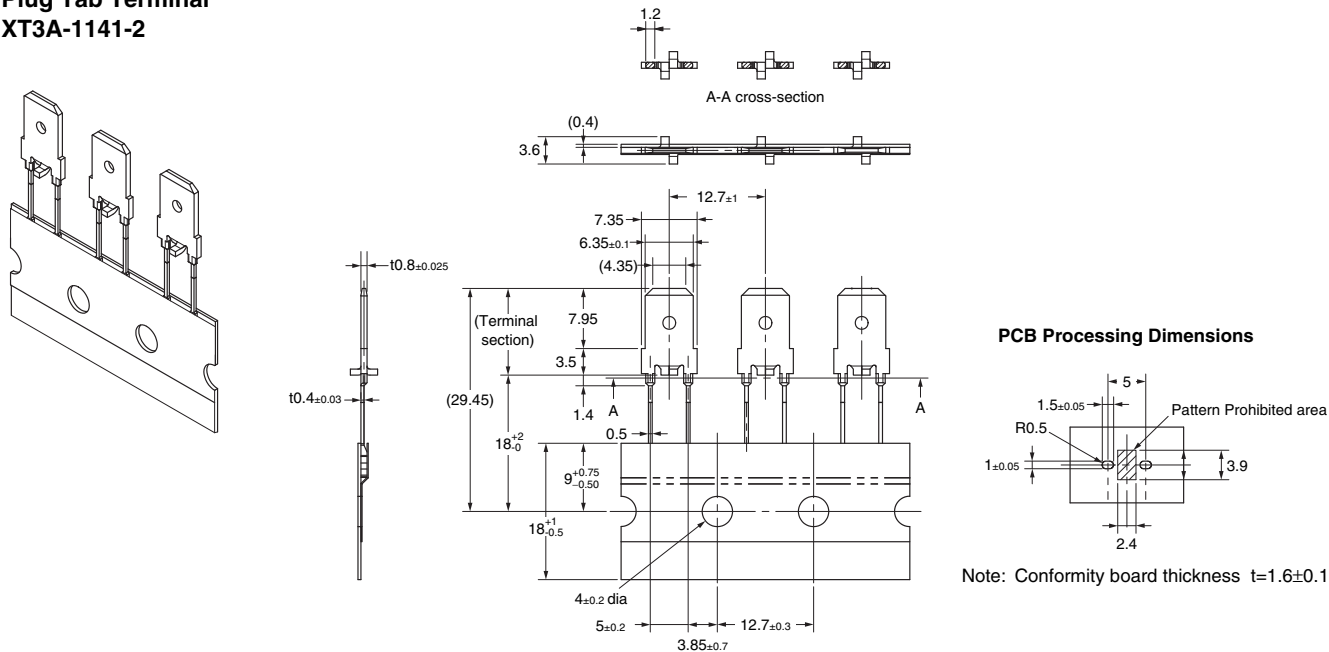
Type	Cable drawer direction	Appearance	Applicable Wires	Model	Minimum ordering quantity (pieces)
Socket Housing	Flag		---	XT3B-1F	2,500
	Straight		---	XT3B-1S	5,000
Socket Contact	Flag		AWG14 to 10	XT3W-F441-12	2,500
			AWG18 to 14	XT3W-F442-12	
			AWG22 to 18	XT3W-F443-12	
	Straight		AWG14 to 10	XT3W-S441-12	
			AWG18 to 14	XT3W-S442-12	
			AWG22 to 18	XT3W-S443-12	

# XT3

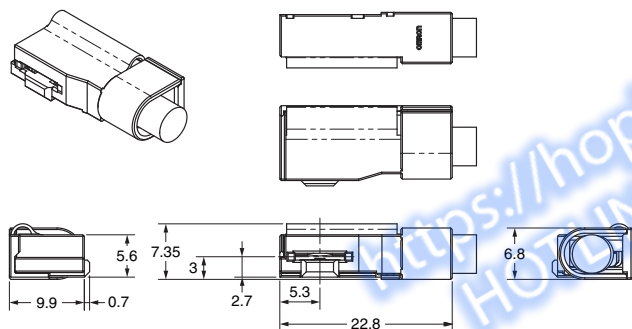
## ■ Dimensions

(Unit: mm)

### Plug Tab Terminal XT3A-1141-2

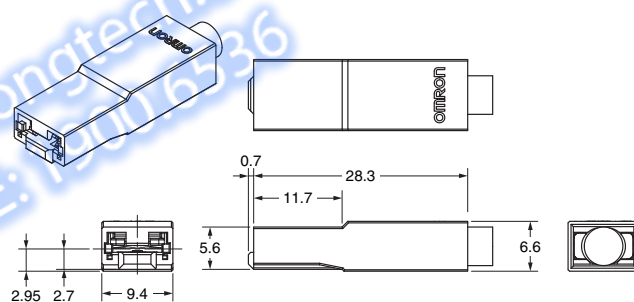


### Socket contact + Housing flag type XT3W-F44□-12 + XT3B-1F



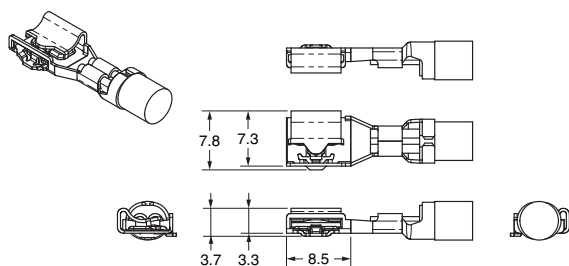
Applicable Tab	6.3 mm (.250 inch) x t=0.8±0.025 mm Tab IEC 61210/JIS C 2809	
Applicable Wire	XT3W-F441-12 + XT3B-1F	AWG14 to 10
	XT3W-F442-12 + XT3B-1F	AWG18 to 14
	XT3W-F443-12 + XT3B-1F	AWG22 to 18

### Socket contact + Housing straight type XT3W-S44□-12 + XT3B-1S



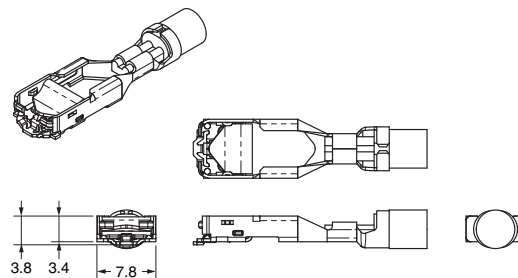
Applicable Tab	6.3 mm (.250 inch) x t=0.8±0.025 mm Tab IEC 61210/JIS C 2809	
Applicable Wire	XT3W-S441-12 + XT3B-1S	AWG14 to 10
	XT3W-S442-12 + XT3B-1S	AWG18 to 14
	XT3W-S443-12 + XT3B-1S	AWG22 to 18

### Socket contact flag type XT3W-F44□-12



Applicable Tab	6.3 mm (.250 inch) x t=0.8±0.025 mm Tab IEC 61210/JIS C 2809	
Applicable Wire	XT3W-F441-12	AWG14 to 10
	XT3W-F442-12	AWG18 to 14
	XT3W-F443-12	AWG22 to 18

### Socket contact straight type XT3W-S44□-12



Applicable Tab	6.3 mm (.250 inch) x t=0.8±0.025 mm Tab IEC 61210/JIS C 2809	
Applicable Wire	XT3W-S441-12	AWG14 to 10
	XT3W-S442-12	AWG18 to 14
	XT3W-S443-12	AWG22 to 18

## Special Tools

For the socket contacts please use an automatic applicator manufactured by Japan Automatic Machine Co., Ltd (J.A.M)

J.A.M Contact Information:

For inquiries: <http://www.jam-net.co.jp/english/Inquiry/index.html>

(Reference)

J.A.M. Website : <http://www.jam-net.co.jp/english/index.html>

J.A.M. Locations: <http://www.jam-net.co.jp/english/company/address/inter/index.html>

Type	Cable drawer direction	Applicable Wire	OMRON model	J.A.M. applicator model	J.A.M. attachment model
Socket contact	Flag	AWG14-10	XT3W-F441-12	QFE890300-UP	AE71
		AWG18-14	XT3W-F442-12	CFE890500-UP	AE31
		AWG22-18	XT3W-F443-12	CFE890600-UP	AE31
	Straight	AWG14-10	XT3W-S441-12	QFE889800-UP	AE71
		AWG18-14	XT3W-S442-12	CFE889900-UP	AE31
		AWG22-18	XT3W-S443-12	CFE890000-UP	AE31

Note: Confirm that the applicator is compatible with J.A.M. attachment models AE31 and AE71.

## Safety Precautions

### Precautions for Correct Use

#### XT3A Tab connectors

- Do not connect the cable end to the terminal, or do not mate or unmated the connectors when applying current. It may cause electric shock.
- Do not touch the connector with wet hand. It may cause electric shock.
- Applying current may heat up the connector and the wire. Please note the surface temperature while touching the connector and wire.
- Do not pull wire excessively. It may break or strain the plug tab terminals.
- Please insert and withdraw in a straight direction. If not it may break or strain the plug tab terminals.
- Please be sure to contact the self-contained surface on the board if you implement the connector to the board. It may cause decline in holding power. (Fig. 1)

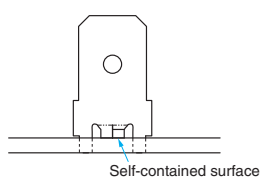


Fig. 1 Contact the self-contained surface on the board

#### XT3B and XT3W Tab Connectors

- Do not connect the cable end to the terminal, or do not mate or unmated the connectors when applying current. It may cause electric shock.
- Do not touch the connector with wet hand. It may cause electric shock.
- Do not use non standard wire ranges.
- Visually inspect the condition whether wire is normally crimped into the contact instead of pulling the wire.
- Applying current may heat up the connector and the wire. Please note the surface temperature while touching the connector and wire.
- Do not place cable at excessively complicated layout. It may cause deformation breaking of connector or breaking of cable.

- Socket housing and socket contact of straight type cannot be disassembled once assembled. Do not disassemble from each other. Connector might be broken.
- Do not apply pressure to flag type socket housing and lock of socket contact. Connector might be distorted in shape. (Fig. 2)
- Please use the flag type socket housing after checking the lock.
- Do not hook the nail to the lock feature. It can cause damage. (Fig. 2)
- Please insert and withdraw in a straight direction. It may break or strain the socket contact.
- Please hold the handle when you carry the reel. It can cause injury if you hold the socket contact. (Fig. 3)
- Do not put reel vertically. It may cause deformation of reel and socket contacts. (Fig. 4)
- Do not apply pressure to the circumference of the reel. It may cause damage and to be distorted in shape. (Fig. 5)

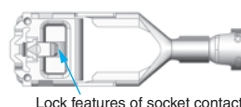
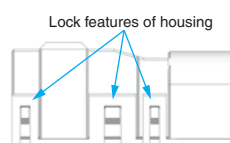
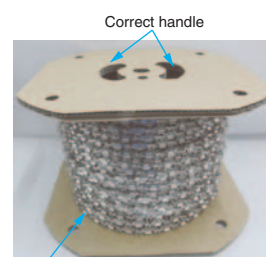


Fig. 2 Illustration of Lock features



Do not hold the socket contacts

Fig. 3 How to hold the reel



Fig. 4 Orientation of reel



Fig. 5 Circumference of reel

### Storage

- Do not store the Connectors in locations subject to dust or high humidity.
- Do not store the Connectors in locations close to sources of gasses such ammonia gas or sulfide gas.

<https://hoplongtech.com>  
HOTLINE: 1900.6536

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

**Note: Do not use this document to operate the Unit.**