

# Sensor Connectors



## CNE Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

### Features

#### [Common Features]

- Significantly reduce installation work and time
- Wide range of connectors compatible with diverse cables and wires
- High density connection with contact pitch of 2mm
- Compatible with e-CON connectors
- 3A current capacity for each pin

#### [Wire Mount Plug / Socket]

- Compact and secure one-touch connection type sensor connectors
- Wire mount plug/sockets allow relay connection of wires
- 9 different color covers for identifying wire thickness
- Visually inspect connection status with translucent covers

#### [Board Mount Socket]

- Contacts positioned within mold to prevent electric shock or short-circuit
- Connect up to 4 wire mount plugs (1/2/4)
- Closely-packed connection possible

### Ordering Information

This is only for reference.  
For selecting the specified model, follow the Autonics website.

#### ■ Wire mount plug / Socket

CNE - ① ② - ③

- ① Connector type  
P: Wire mount plug  
S: Wire mount socket
- ② No. of pins  
03: 3-pin  
04: 4-pin

#### ③ Cover color and cable specification

Model	Cover color	Cable spec. <sup>01)</sup>	
		Nominal cross section area (mm <sup>2</sup> )	Cover diameter (mm)
WT	Clear		Ø 0.6 to 0.8
YG	Yellow-green	0.05 to 0.08 (AWG30 - 28)	Ø 0.8 to 1.0
VT	Violet		Ø 1.0 to 1.2
RE	Red		Ø 0.8 to 1.0
YW	Yellow	0.13 to 0.21 (AWG26 - 24)	Ø 1.0 to 1.2
OG	Orange		Ø 1.2 to 1.6
GN	Green		Ø 1.0 to 1.2
BL	Blue	0.32 to 0.5 (AWG22 - 20)	Ø 1.2 to 1.6
GY	Gray		Ø 1.6 to 2.0

01) It is recommended to use PVC insulation.

#### ■ Board mount socket

CNE - B ① ②

- ① No. of lines  
No mark: 1-line  
2: 2-line  
4: 4-line
- ② No. of pins  
03: 3-pin  
04: 4-pin

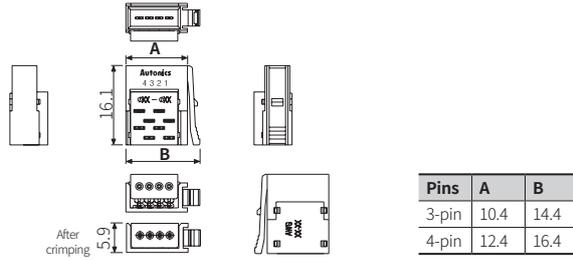
### Specifications

Type	Wire mount plug	Wire mount Socket	Board mount socket
Model	CNE-P	CNE-S	CNE-B
Application	Connector	Board mount socket / Wire mount Socket	Wire mount plug
	Cable	AWG30 - 20 (insulator outside diameter Ø 0.6 to 2.0)	
	PCB		Fender plated-through hole, hole dia.: 1.0 mm PCB thickness: 1.0 to 2.2 mm
Power supply	≤ 32 VAC~ / VDC=		
Rated current	≤ 3.0 A		
Ambient temperature	Applying 1 A: -20 to 85 °C Applying 2 A: -20 to 75 °C Applying 3 A: -20 to 60 °C (rated at no freezing or condensation)		
Ambient humidity	40 to 80%RH (rated at no freezing or condensation)		
Terminal retention	≥ 1.4 kgf		
Pressure strength	AWG30: ≥ 0.5 kgf AWG24: ≥ 0.8 kgf AWG20: ≥ 1.0 kgf		
Extraction	≥ 0.49N (50 gf) / pin		
Insertion	≤ 1.96 N (200 gf) / pin		
Dielectric strength	1,000 VAC~ for 1 min (between terminals)		
Insulation resistance	≥ 1,000 MΩ (between terminals)		
Contact resistance	≤ 0.05 Ω (short current: 1 mA, max. open voltage: 20 mV)		
Material	Body: PC/ABS (UL94V-0), terminal: C5210 (Gold 0.2μm), case: PC (UL94-V0)		Body: PC/ABS (UL94-V0), terminal: C5210 (Gold 0.2μm)

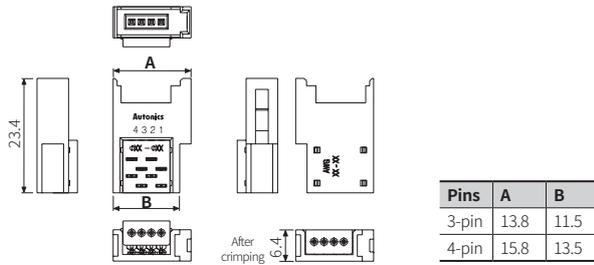
## Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

### ■ Wire mount plug

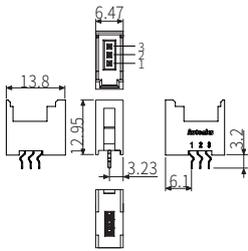


### ■ Wire mount Socket

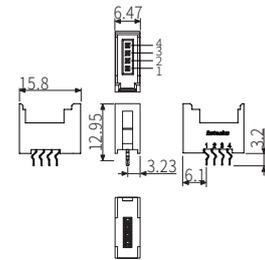


### ■ Board mount socket

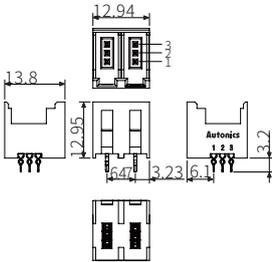
#### • CNE-B03 (1-line × 3-pin)



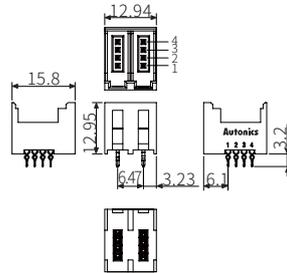
#### • CNE-B04 (1-line × 4-pin)



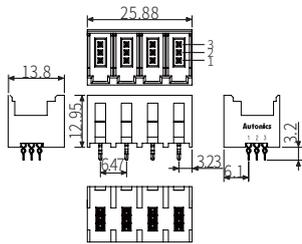
#### • CNE-B203 (2-line × 3-pin)



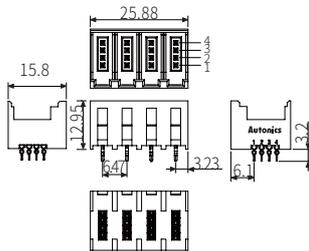
#### • CNE-B204 (2-line × 4-pin)



#### • CNE-B403 (4-line × 3-pin)



#### • CNE-B404 (4-line × 4-pin)



#### • PCB hole pattern

