

nextron



SPE Series

1000BASE-T1 Automotive Ethernet Solution



INDUSTRIAL
PARTNER
NETWORK

2 pin type



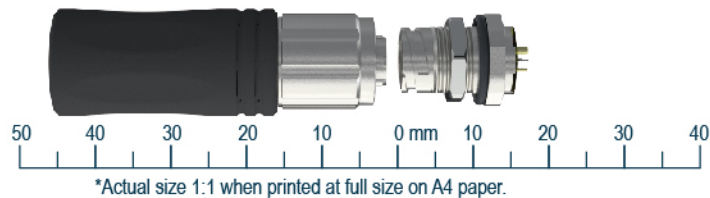
4 pin type



Features

- 2 & 4 ways edition supports up to 1 Gbit/s.
- Compliant with IEEE 802.3bp & IEC 63171-6 ED1.
- M8 size bayonet type. Other locking available by customization.
- Unshielded Twisted Pair (UTP) /Shielded Twisted Pair (STP) cable selections available.

SPE Size



Technical Characteristics

Mechanical	2 pin type	4 pin type
Endurance	200 mating cycles	200 mating cycles
Insertion force	50N max	50N max
Vibration		
• Frequency	10 Hz - 500 Hz.	10 Hz - 500 Hz.
• Amplitude	0.35 mm. Sweep rate 1 octave/min.	0.35 mm. Sweep rate 1 octave/min.
• Acceleration	50 m/s.	50 m/s.
• Duration	2 hours per axis, total 6 hours	2 hours per axis, total 6 hours
• Axes	x, y, z. Standard atmospheric conditions. (Connectors in mated and locked position)	x, y, z. Standard atmospheric conditions. (Connectors in mated and locked position)
Electrical	2 pin type	4 pin type
Voltage	60V DC	60V DC
Contact resistance	< 20mΩ	< 20mΩ
Withstanding voltage	1000V DC contact to contact	1000V DC contact to contact 1500V DC contact to shield
Insulation resistance	≥ 500 mΩ	≥ 500 mΩ
Rated current	4A per pin for Signal	8A per pin for Power 4A per pin for Signal
Characteristic resistance	100Ω±10%	100Ω±10%
Environmental	2 pin type	4 pin type
Waterproof rating	IP67 (mated)	IP67 (mated)

SPE P/N

Z-L40 ^A ^B ^C ^D
* * * 0 0 0 0 0 * *

A

Contact Type

- S: Male contact
- F: Female contact

B

Contact Pin

- 02.
- 04.

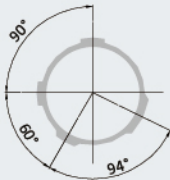
D

GND Type (only for Female contact)

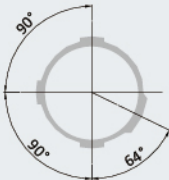
- G: With outer shell GND (only for 4way type)
- 0: Without outer shell GND

Color Code Zone

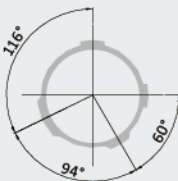
C



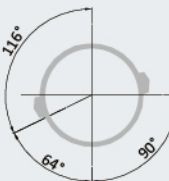
• A: Red



• B: Blue



• C: Yellow



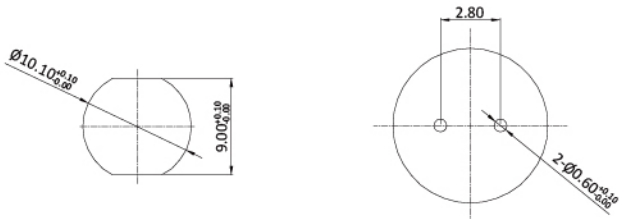
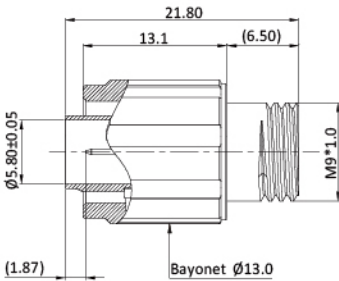
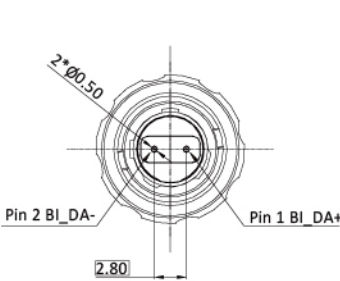
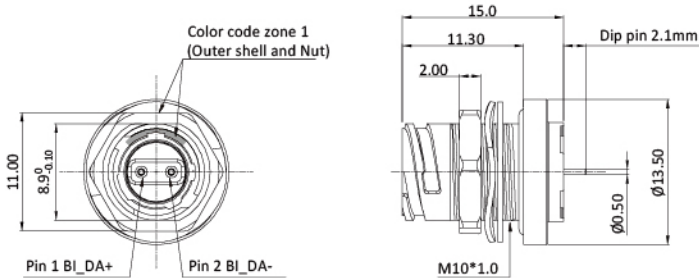
• D: Green

Drawing (dimensions in mm)

Nextronics reserves the right to adjust drawings, specifications and dimensions in any promotional materials.

2 pin receptacle PCB side

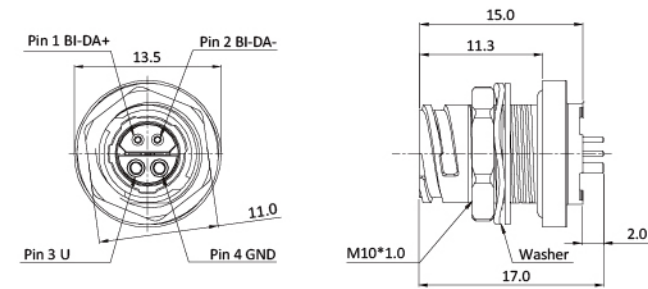
2 pin plug



Panel cut-out

PCB layout

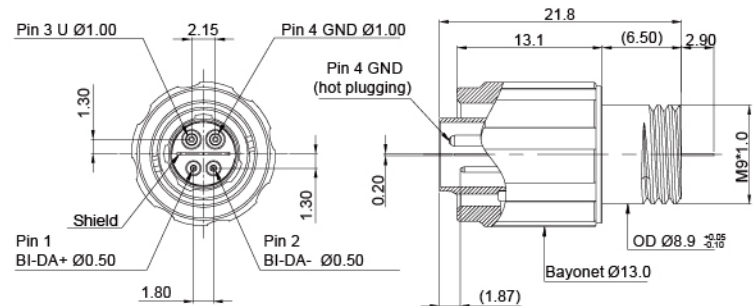
4 pin receptacle PCB side



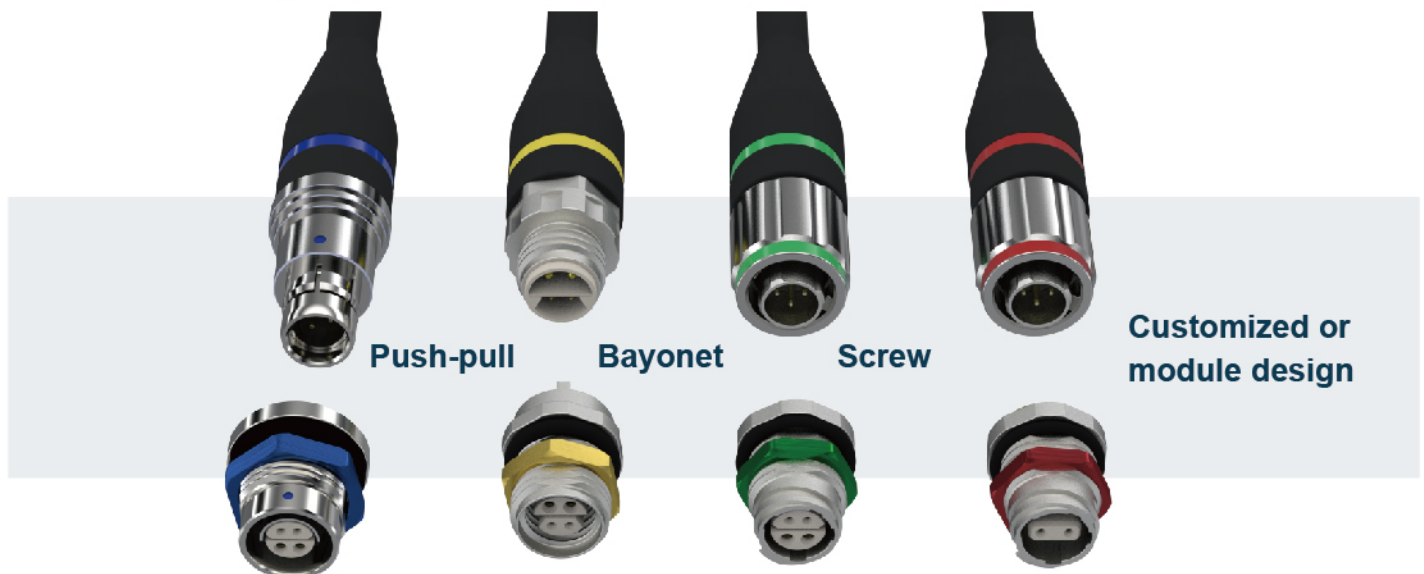
Panel cut-out

PCB layout
With outer shell GND

4 pin plug



More Locking System Solutions



Contact us for customized solutions



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Taipei, Taiwan, Headquarter

Address : 2F, No.31, Lane 169, KangNing Street,
Xizhi District, New Taipei City, 22180 Taiwan.

TEL : +886-2-6616-2000

E-mail : marketing@nextron.com.tw

Website : www.nextrongroup.com