

# CN CONNECTOR

Board-to-wire/High frequency



Connector for the GPS antenna system of the car navigation system.

The CN connector applies the unique crimping method to the shielding meshed wires, which will result in superior high-frequency characteristics.

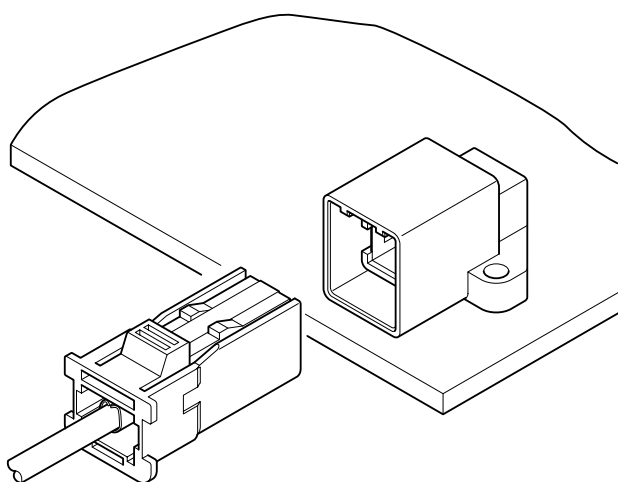
## Features

### ●Crimping method and shape

Shielding meshed wires are crimped with the N-type crimp shape, which prevents the deflection and coming off of the meshed wires.

### ●Superb high-frequency characteristics

This connector can keep low VSWR characteristics, while serving high-frequency characteristics.



## Specifications

- Current rating: 1.0 A AC, DC
- Voltage rating: 250 V AC, DC
- Temperature range: -30°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 30 mΩ max.  
After environmental tests/ 60 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: Inner conductor cross sectional area/  
0.05 mm<sup>2</sup> to 0.2 mm<sup>2</sup>  
Outer conductor O.D./ φ0.85 mm to φ2.2 mm  
Sheath O.D./ φ1.45 mm to φ3.3 mm
- Frequency range: DC to 1.5 GHz
- Characteristic impedance: 50 Ω

\* Compliant with ELV/RoHS.

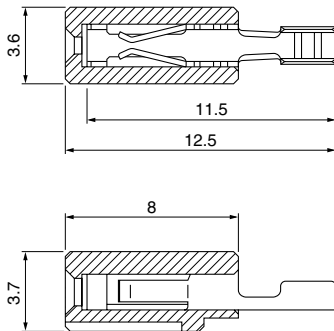
\* Contact JST for details.

# CN CONNECTOR

## Female terminal

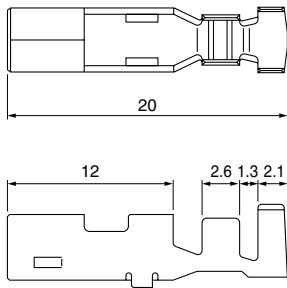
### Conductor

#### • Socket terminal



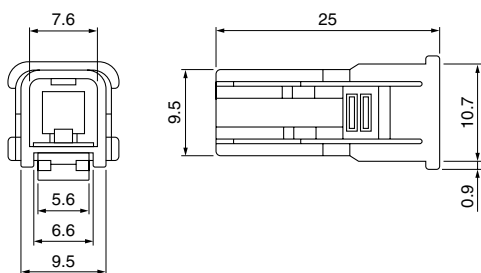
### Shielding part

#### • Plug terminal



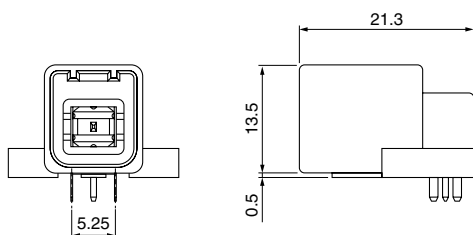
Terminal	Model No.	Q'ty/reel
Conductor	<b>CN-SAS1290</b>	4,000
Shielding part	<b>SCM-61T-4.6</b>	1,500
Material and Finish		
Conductor: Phosphor bronze, tin-plated (reflow treatment)		
Socket housing: Glass-filled LCP, Natural (White)		
Shielding part: Brass, tin-plated (reflow treatment)		

## Female connector



Model No.	Q'ty/box
<b>CNP-01V</b>	1,000
Material and Finish	
Glass-filled PBT, Black	

## Header



Model No.	Q'ty/box
<b>CNB-01AH</b>	120
Material and Finish	
Terminal: Brass, copper-undercoated, tin-plated (reflow treatment)	
Housing: Glass-filled PBT, Gray	
Shielding terminal: Brass, copper-undercoated, tin-plated (reflow treatment)	

## PC board layout, Assembly layout



viewed from component side

Note: 1. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
 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

### • Conductor

Terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
<b>CN-SAS1290</b>	AP-K2N	MK/CN-SAP/S1	APLMK CN-SAP/S1

## Crimp tool (Pneumatic press)

### • Shielding part

Terminal	Crimp tool	Control unit
<b>BCM-61T-4.6</b> (Loose piece)	MP-CN-BCM61	—
<b>SCM-61T-4.6</b> (Chain)	MP-CN-SCM61	MP-CU-CN(S)