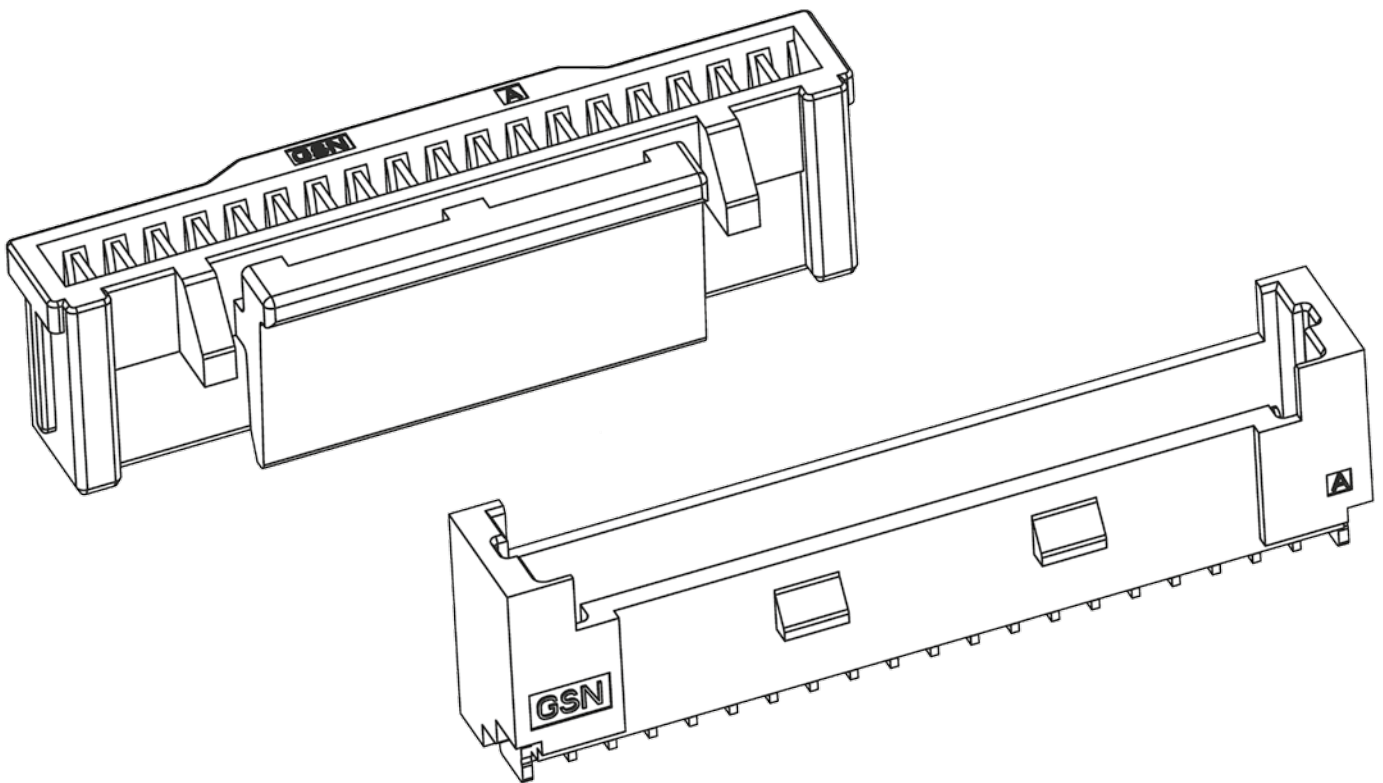


NEXT-GEN 1.0mm AUTOMOTIVE WIRE TO BOARD CONNECTORS



60% SPACE REDUCTION

Compared to standard 2.54 mm systems

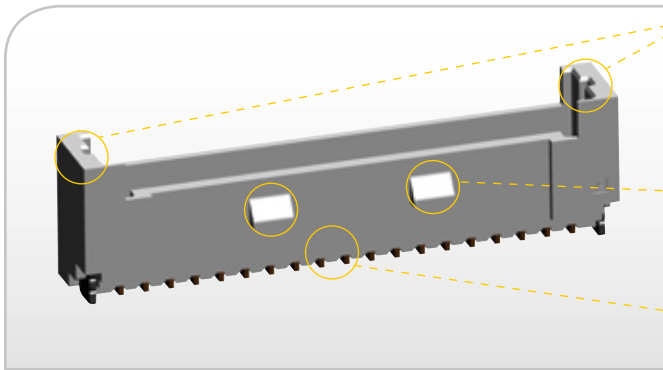
■ FOR IN-VEHICLE SIGNAL TRANSFER

- > Pitch: 1.0mm
 - > Pole numbers: 2-20
 - > Current rating: 1A AC DC with AWG 28
 - > Wire range: AWG 28-32
 - > Voltage rating: 50V AC DC
- RoHS compliant



NEXT-GEN 1.0mm AT A GLANCE*

■ **SERIAL NUMBER: 87P101S1W**
WEBCODE: 1673

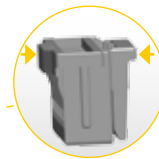
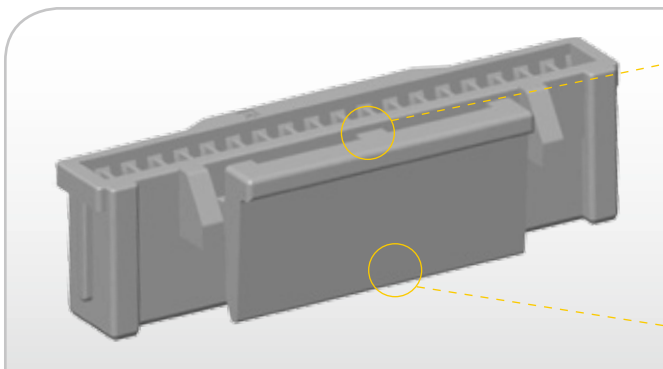


Safe mating
thanks to high, reinforced walls that act as alignment guides

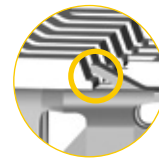
Secure locking
with two locking hooks

Space reduction
by 1.0mm pitch

■ **SERIAL NUMBER: 87H101X1W**
WEBCODE: 1672



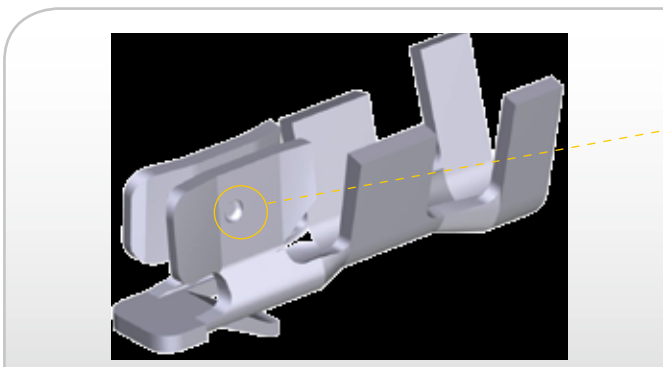
**Easy to lock, unlock,
pick and hold**



**Secure retention
of crimp terminals**

Secure locking
thanks to secure retention of crimp terminals

■ **SERIAL NUMBER: 87C10FK**
WEBCODE: 1671



Clearly defined contact points

Each contact features two embossed contact points for excellent contact performance.

This seemingly minor feature has a MAJOR impact on the contact system's performance.

* For further product specifications, please enter the webcode at www.gsn.cn.com

NEXT-GEN 1.0mm AT A GLANCE

A Connector System that offers a higher level of reliability

CONTACT RELIABILITY

GSN has developed a system that withstands even very strong vibration. The key elements are **TWO CONTACT POINTS** on the inside of the terminal and a **FORCED RETENTION MECHANISM** inside the female housing.

ASSEMBLY RELIABILITY

Next-Gen 1.0mm has been specially designed for difficult assembly conditions, whether it be the speed and force of assembly or an awkward cable position. **SPECIAL ALIGNMENT GUIDES** prevent incorrect mating. The plastic housing has an **IMPROVED DESIGN** that reliably prevents damage.

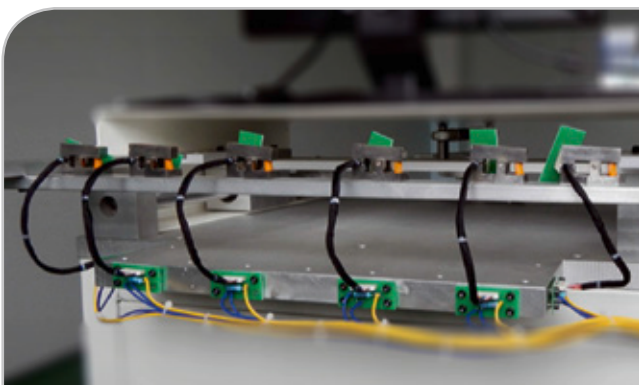
APPROVAL RELIABILITY

This system achieves two different product approvals. Firstly, Next-Gen 1.0mm successfully passes the **SLOW MOTION BENDING TEST**, which is explained below.

Secondly, the system has delivered an unbeatable **ZERO-FAILURE FIELD PERFORMANCE** to date.

SLOW MOTION BENDING TEST (SMBT) EXPLAINED

The SMBT is designed to simulate how the connection system moves about in the vehicle. Systems that have passed this test are highly stable – making them suitable for automotive applications.



All the cable's wires are connected in chain. In each cycle, the cables are bent for three seconds, and then released for 60 seconds to recover. Resistance is measured, and maximum and minimum values are recorded on a graph.



To pass the test, a connection system must demonstrate no significant increase in contact resistance after 20,000 cycles.