1Gbps Optical Connector with Cable ASSY

Automotive optical connector with cable ASSY that realizes high-speed optical communication systems with good noise resistant.

- Supported automotive high-speed communication for autonomous driving.
 (Transmit high-definition videos and integrated sensor information)
- Respond needs for noise and insulating actions according to vehicle electrification.
- Contribute carbon neutrality by reducing weight.



Feature

1

Reduce the weight and improve noise resistant performance by adopting plastic optical fibers (Shielded wire ratio volume 1/4)

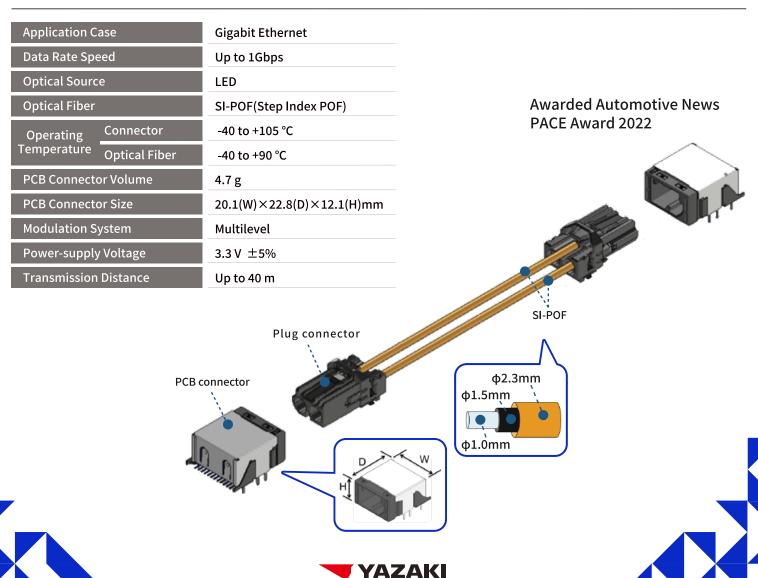
2

Ensure high reliability in the on-board environment by adopting plastic optical fibers.

3

70% smaller and faster than conventional MOST connectors

Performance/Specification



25Gbps Optical Connector with Cable ASSY

Automotive optical connector with cable ASSY that realizes super high-speed optical communication systems with good noise resistant.

- Supported automotive high-speed communication for autonomous driving. (Transmit high-definition videos and integrated sensor information)
- Respond needs for noise and insulating actions according to vehicle electrification.
- Contribute carbon neutrality by reducing weight.



Feature

1

High-speed communication up to 25Gbps by adopting high-bandwidth plastic optical fibers

2

Same handling and routing as electrical wiring

3

Reduce the weight due to unnecessary EMC actions in transmission channel

Performance/Specification

Multi-Gigabit Ethernet	
Up to 25Gbps	
VCSEL	Achieved automotive high-speed optical communication system with high reliability and routing performance by adopting GI-POF as optical fibers, and contribute eco-driving. (CO2 reduction)
GI-POF(Graded Index POF)	
-40 to +105°C	
-40 to +105°C	
TBD	
TBD	
2 values (NRZ)	Par
$3.3V \pm 5\%$	
Up to 40m	
Plug connector	GI-POF
	Up to 25Gbps VCSEL GI-POF(Graded Index POF) -40 to +105°C -40 to +105°C TBD TBD 2 values (NRZ) 3.3V ± 5% Up to 40m

