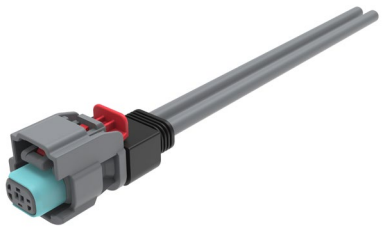
molex

HSAutoLink E 10BASE-T1S Cable Assemblies and Connectors ›



Designed to reduce automotive wiring complexity, weight and cost by connecting multiple devices over a multi-drop or point-to-point cable assembly, HSAutoLink E Cable Assemblies are rugged, compact Ethernet solutions optimized for 10BASE-T1S to 1000BASE-T1 Ethernet. The HSAutoLink E system delivers automotive-grade performance and reliability, including flexible configurations that support software-defined vehicle (SDV) and zonal architectures.

ADVANTAGES AND FEATURES

Minimizes wiring complexity
Multi-drop (daisy-chain) communication enables the connection of multiple devices over a single cable assembly, minimizing the connector count and simplifying harness design.

Supports adoption of zonal architecture
The connector system is optimized for zonal architectures that consolidate low-speed Ethernet applications such as body electronics, lighting, sensors and other distributed systems.

Streamlines upgrades for SDV architectures
Data rates up to 1Gbps and 10BASE-T1S Ethernet connectivity support evolving SDV networking strategies, reducing development costs by avoiding the need for connector redesigns.

Protocols	10BASE-T1S, 100BASE-T1, 1000BASE-T1
Nodes	Up to 8
Cable	28 to 22 AWG (JUTP or UTP)
Topology	Multi-drop Ethernet

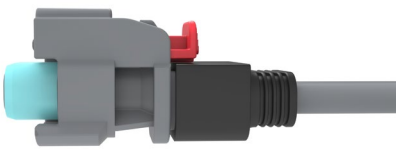
Maintains signal integrity
Controlled untwist capability helps reduce EMI and preserve signal strength, improving system reliability.

Reduces harness size and weight
The compact two-circuit connector maximizes available space in compact spaces, while 28 AWG cable enables lighter-weight harnesses and enhances vehicle efficiency.

Simplifies sourcing, system integration and maintenance
A full suite of connectors, headers and cable assemblies, featuring robust soldered-terminal interfaces and capable of maintaining system operation despite single-node failures, streamline procurement and reduce maintenance requirements.







PRODUCT OVERVIEW SHEET

HSAutoLink E 10BASE-T1S Cable Assemblies and Connectors ›

MARKETS AND APPLICATIONS

Automotive

Advanced driver-assistance systems (ADAS)
Automotive miniaturization systems
Door modules
In-vehicle networks
Interior lighting actuators
Radar systems
Speaker systems
Ultrasonic sensors
Zonal architecture
Zonal controllers



ADAS



Door Modules



Radar Systems

SPECIFICATIONS

Reference Information

Packaging: Tape and reel (headers)
Designed in: Millimeters
RoHS: Yes
Halogen: Low halogen
Protocol Standard: 10BASE-T1S Ethernet

Electrical

System Date Rate: Up to 1Gbps
Voltage (max.): 36V
Current (max.): 1.5A
Contact Resistance (max.): 20 milliohms

Mechanical

Circuits: 2
Wire Size: 28 AWG
Nodes: Up to 8 per cable assembly
Mating Force (max.): 25N
Durability: 25 mate/un-mate cycles

Physical

Housing: High-temperature plastic
Contact: High-performance copper alloy
Contact Plating: Gold

www.molex.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners
Order No. 987653-0099 USA/0k/GF/2026.08
©2026 Molex