Delphi High Speed Data Cable

Delphi High Speed Data Cable Assemblies are specifically designed to enable inter-device communication in high performance automotive environments.

They can be configured for multiple protocols, including Universal Serial Bus (USB), Low Voltage Differential Signaling (LVDS), High Definition Multimedia Interface (HDMI) and Ethernet functionality. They can be designed for multiple connection system types, including USCAR (United States Council for Automotive Research), Mini-B, HDMI Type E, Mini HSD (high speed data), HSDD (high speed digital data), USB 3.0, and other customer-specified connection types.

Delphi High Speed Data Cable Assemblies are available as single- and dual-channel LVDS, with multiple indexes and with scoop-proof connectors to prevent pins from being electrically shorted during mating.

Delphi’s current portfolio of high speed data cable assemblies includes:

**USB cable assemblies:** Specially developed for vehicle applications, Delphi USB cable assemblies are validated to USCAR and various OEM specifications. They use USB Mini-B, Mini-A, Standard-A and HSDD connections. They have been proven in high-volume production globally.

![USB cable assemblies](image)

**LVDS cable assemblies:** Developed specifically for vehicle high definition video/camera applications, Delphi LVDS cable assemblies use the same Mini-B connections common to USCAR requirements. They are available in single- and dual-pair configurations for sealed and unsealed applications with a variety of wire dress options, with multiple indexes and colors.

![LVDS cable assemblies](image)

**Ethernet cable assemblies:** Using unshielded twisted pair (UTP) cable and unshielded connections, these cable assemblies can use a variety of industry standard connections with the addition of a unique impedance matching part (IMP) to enable high speed data performance.

![Ethernet cable assemblies](image)
USB 3.0 connections: Capable of multiple protocol as well as combinations of USB and LVDS in a single connector, these connectors are USB standard interfaces packaged in housings and meet automotive industry requirements.

Benefits

- High speed and high performance for multiple protocols, including:
  - USB
  - LVDS
  - HDMI
  - Ethernet
- Capabilities for multiple connection system types, including:
  - USCAR Mini-B
  - HDMI Type E
  - Mini HSD
  - HDDD
  - Other customer specified types
- Single- and dual-channel LVDS cables available for durability in sealed or unsealed applications
- Multiple indexes available for easy identification
- Scoop-proof design to prevent electrical shorts during mating

Typical Applications

Delphi High Speed Data Cable Assemblies can be used in virtually any vehicle application requiring high speed data transfer and low power use. Among the possible uses are:

- Video entertainment:
  - DVDs
  - Blu-Ray™
  - MPEG videos
  - Gaming
- Driver information systems:
  - 360° view cameras
  - Occupant recognition
  - Driver awareness systems
- Video navigation:
  - Upload routing
  - GPS (Global Positioning System)
- Digital video recognition and monitoring

The Delphi Advantage

As a global leader in data connectivity systems, Delphi understands the electronics required to provide hub functions, device recognition, charging capabilities, circuit protection electromagnetic compatibility (EMC) filtering and everything else that goes into providing a seamless experience. Delphi has been a high-volume global producer of high-speed data products since 2006.