

Delphi Media Oriented Systems Transport (MOST®) Headers

► Description

Media Systems Oriented Transport (MOST®) is a multimedia fiber-optic network optimized for automotive applications. The MOST header system from Delphi is designed for best optical performance and high reliability. This connection family is 100 percent MOST compatible and provides superior performance over traditional pigtail header assemblies.

► Benefits

- Minipigtail header construction helps reduce cost and space requirements at PCB (printed circuit board) and is 100 percent MOST compatible
- Loose ferrule design and standard-cut lead process helps increase efficiencies in assembly and packaging
- Soldering temperature up to 260° according to IEC 68-2-20 for conditioning of all components with one solder wave possible
- Electrical MTS (micro terminal system) contacts are capable of up to 8 amps



MOST harness components



MOST header system

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► Typical Applications

Delphi's MOST connection system is designed for typical automotive multimedia applications such as:

- Digital radios
- GPS (global positioning systems) navigation systems
- Active speakers
- CD changers
- Video displays
- Interactive security systems

Application Guidelines	
Optical	
Optical output driver	-10.0dBm to -2.0dBm
Receivable optical power	-24.0dBm to -2.0dBm
Electrical	
Optic transmitter input	TTL
Optic receiver input	TTL
Terminal current range	4.5A to 8.0A
Terminal voltage drop	<8.0mV to <14.0mV
Mechanical	
Cable range (mm) for MTS 0.64	0.35 to 0.75
Centerline spacing (mm)	Electrical: 2.54 Optical: 6.00
Connector insertion force	(2+0): 11N (2+4): 25N
Terminal retention force	>80N
Ferrule insertion force	<7N
Ferrule retention force	>75N
Retention force optical cable/ferrule	>60N
Operating temperature range	-40°C to 95°C

The general application guidelines above are for reference only and may not account for all the variables that would be present in an actual application. For additional detailed product performance information, contact Delphi.

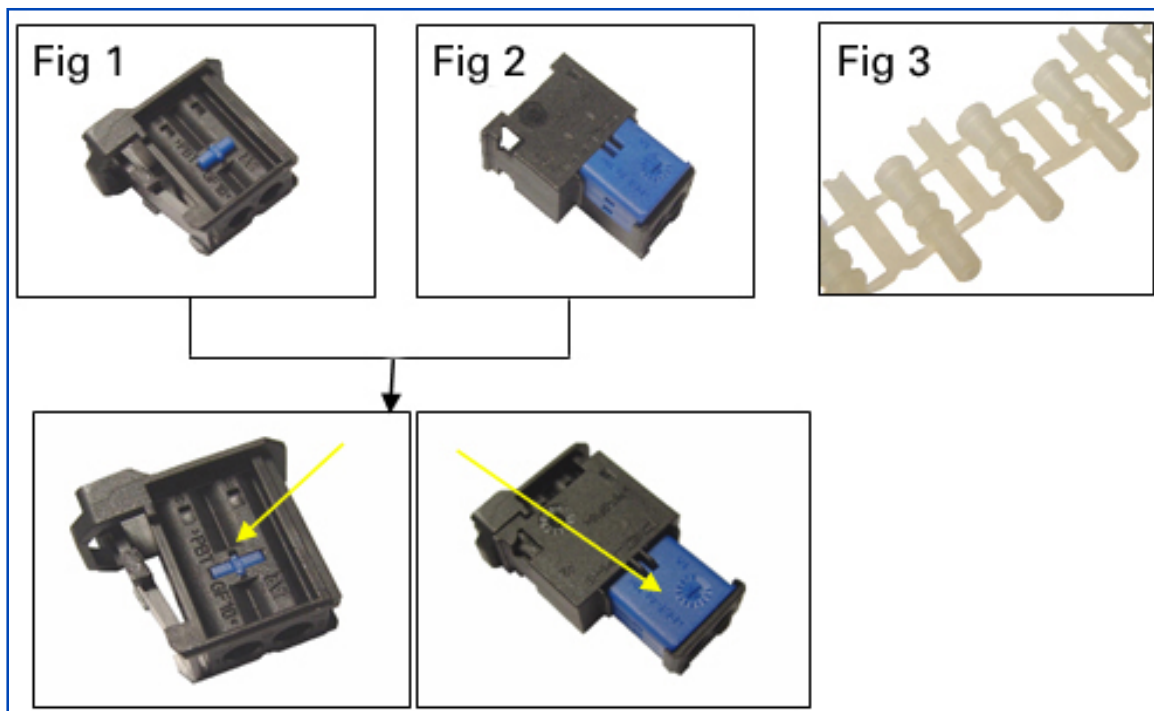
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► Performance Advantages

The Delphi header provides an excellent coupling between the FOT (fiber optic transmitter) and the fiber. This leads to a broad reduction of pigtail losses and allows an easy assembly on the PCB. This technology is ready for 3.3V applications.

MOST 2+0 System Inline (illustrated below)

Figure	Part Number	Description	Color
1	15446644	ASM 2-way connector female 2+0	Black
2	15446642	ASM 2-way connector male 2+0	Black
3	15439751	Ferrule (needs special assembly equipment in the harness plant)	Nature



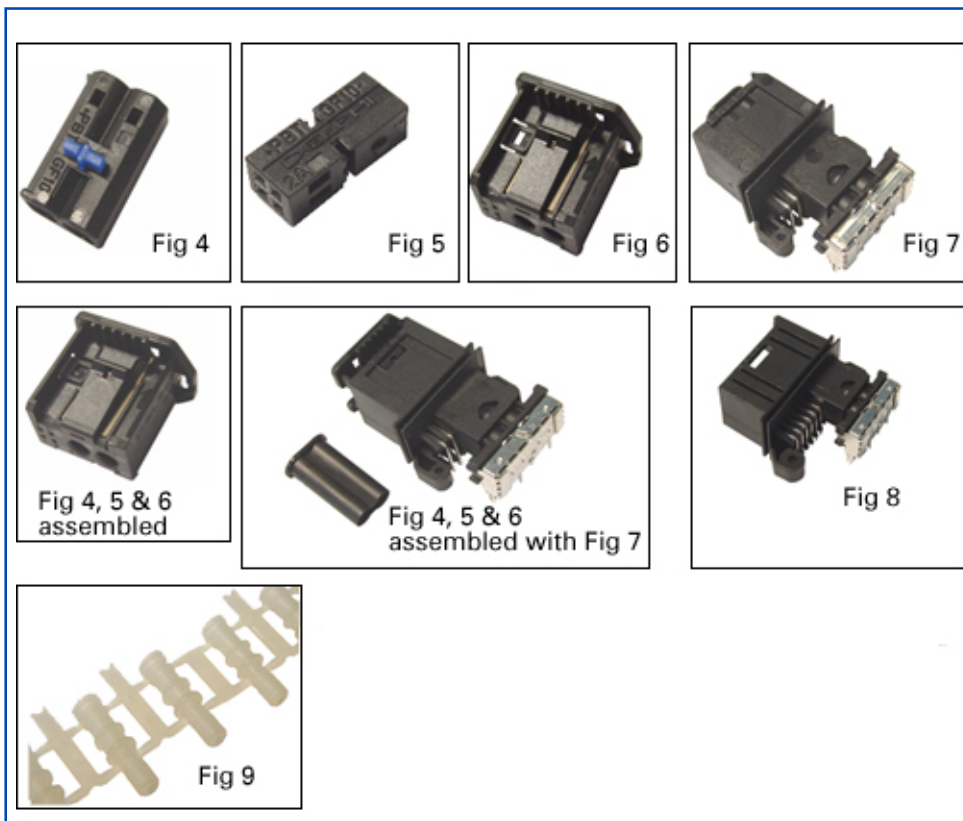
Figures 1 and 2 assembled

The arrows indicate push, which is the closing of secondary locks after plugging the optical lead.

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MOST 2+4 System and 2+12 System (illustrated below)

Figure	Part Number	Description	Color
4	15446640	Optical insert 2-way code A	Black
5	15439743	4-way connector female MTS 0.64	Black
6	15446646	Connector carrier 2+4	Black
7	28042815	Header ASM for connector 2+4	Black
8	13572632	Header ASM for connector 2+12	Black
9	15439751	Ferrule (needs special assembly equipment in the harness plant)	Nature



Note: MOST is a registered trademark of OASIS SiliconSystems.