

HDMI Type E Connector System

HIGH SPEED AUTOMOTIVE AUDIO AND VIDEO INTERFACE COMPLIANT WITH USCAR-2

HDMI Type E connector system has a structure that is vibration and shock resistant compared to consumer HDMI products. It has a fully-shielded design with a metal shell, which reduces EMI (Electromagnetic Interference). It also features DIP-type contacts. The connector is optimized to make an audible locking sound to prevent half-mating issues. It also provides coding polarizations which help in eliminating misconnections. HDMI Type E is durable and compact to support advanced infotainment applications.

- HDMI ver1.4b compliant
- Provides coding polarizations to eliminate misconnection
- Compatible with other competing products
- Resistant to reflow soldering temperature
- Quality tested according to USCAR-2



TARGET MARKETS



FEATURES

- Standard HDMI interface
- Audible and synchronized tactile feedback while mating
- Full metal shielding
- DIP type contact design with six through holes
- Color-coding compliant to automotive requirements
- Resistance to reflow-soldering temperature
- HDMI-Compliant Design
- USCAR-2-Compliant Design

BENEFITS

- Compatible with other competing products
- Helps to know when connectors are fully seated
- Enhanced EMI performance
- Provides high PCB retention force
- Better user experience during installation
- Supports Pin-in-Paste (PiP) processes
- Meets high definition multimedia requirements
- Meets automotive critical mass for connector solutions

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, UL 94V-0
- Contacts: Copper Alloy
- Shell : Copper Alloy

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: Initial 10 milliohms maximum
- Contact Current Rating: 0.5 A min.
- Dielectric Withstanding Voltage: 500V AC(Unmated)
300V AC(mated)
- Dielectric Withstanding Voltage: 150V AC

MECHANICAL PERFORMANCE

- Insertion Force: 70N max.
- Extraction Force without Locking Latch: 70N max.
- Extraction Force: 100N max.
- Durability: 10 cycles

APPROVALS AND CERTIFICATIONS

- USCAR-2 Compliant
- HDMI Compliant
- IATF Production Compliant
- RoHS
- REACH/SVHC
- Low Halogen

ENVIRONMENTAL

- Temperature/Humidity: 40 cycles between -40°C to +100°C, Relative Humidity 0% to 80%
- Vibration: V1 Class
- Thermal Shock: 100 cycles between -40°C to +100°C

APPROVALS & CERTIFICATION

- USCAR-2 Compliant
- IATF Production Compliant
- RoHS
- REACH/SVHC
- Low Halogen

SPECIFICATIONS

- Amphenol Product Specification: HDMI Type-E Series Spec

PACKAGING

- Available in tray or tape and reel

TARGET MARKETS/APPLICATIONS



In-Vehicle Infotainment System

PART NUMBERS

Product	Description	Part Numbers
HDMI Type E Connector	HDMI Connector, Right Angle, Standard, Tape and Reel	HDMF192080121TR
HDMI Type E Connector	HDMI Connector, Right Angle, Non-Standard, Tape and Reel	HDMF19208012TR
HDMI Type E Connector	HDMI Connector, Vertical, Standard, Tape and Reel	HDMF192082121TR
HDMI Type E Connector	HDMI Connector, Vertical, Non-Standard, Tape and Reel	HDMF19208212TR
HDMI Type E Cable Assembly	HDMI Type E COMBO (HDMI-A & USB 2.0 A) / Straight (Standard) and Micro Power 3.0, 485mm, Bag	CBA00HDMIW028
HDMI Type E Cable Assembly	HDMI Type E Straight/Straight, Coding Non-Standard to Non-Standard, 600mm, Bag	CBA00HDMIW039
HDMI Type E Cable Assembly	HDMI Type E Straight/Straight, Coding Non-Standard to Non-Standard, 300mm, Bag	CBA00HDMIW045

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