



The Pixelgen SERIES 8 - Ultra High Speed HDMI® Cable is the industry's first short-range THX® Certified 8K Interconnect, carefully engineered to ensure the highest level of signal integrity from a high-speed, low-speed & DC power perspective while maintaining the thinnest and most flexible cable construction in the industry.

The SERIES 8 cable is HDMI Certified supporting all HDMI 2.1 features including FRL 48Gbps, 8K-10K, Dynamic HDR, eARC, as well as the all-new gaming centric enhancements of VRR, ALLM, QFT and QMS.

Whether striving to master perfect symmetry within a professional rack design or simply connecting to inputs of an AV receiver or display, the SERIES 8 cable guarantees uncompressed 8K/48Gbps signal delivery.

## DESIGN SPECIFICATIONS

- Available in **0.5m/1.6ft**, **1.0m/3.3ft**, **1.5m/4.9ft** and **2.0m/6.5ft** lengths
- THX® Certified 8K Interconnect
- Ultra High Speed HDMI® Cable Certified
- **Video:** Up to 8K-10K BT.2020 formats (Bandwidth/Format Comparison on back page)
- **HDR:** Dynamic (and Static) HDR, HDR10, HDR10+, Dolby Vision, SBTM (Source-Based Tone Mapping)
- **Audio:** eARC (Enhanced Audio Return Channel), Dolby Atmos, Dolby TrueHD, DTS:X, DTS Master
- **Control Features:** CEC (Consumer Electronics Control), HEC (HDMI Ethernet Channel)
- **HDCP** (High-bandwidth Digital Content Protection): HDCP 2.2/2.3 (backwards compatible HDCP 1.4)
- **Gaming:** VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), QFT (Quick Frame Transport) QMS (Quick Media Switching)

## MECHANICAL / CONSTRUCTION

- Cable Diameter: 4.5mm (OD)
- HDMI Plugs: Gold-plated
- HDMI Casing: Molding PVC Black
- Retention Force (max): 3kg/6.6lbs
- Bend Radius: 25mm/1.0 inches
- 8C/34AWG (4 x High-speed FRL pairs)
- 2C/34AWG (1 x HEAC/eARC differential pair)
- 3C/34AWG (3 x DDC-SDA, DDC-SCL & CEC)
- 1C/28AWG (1 x 5V)

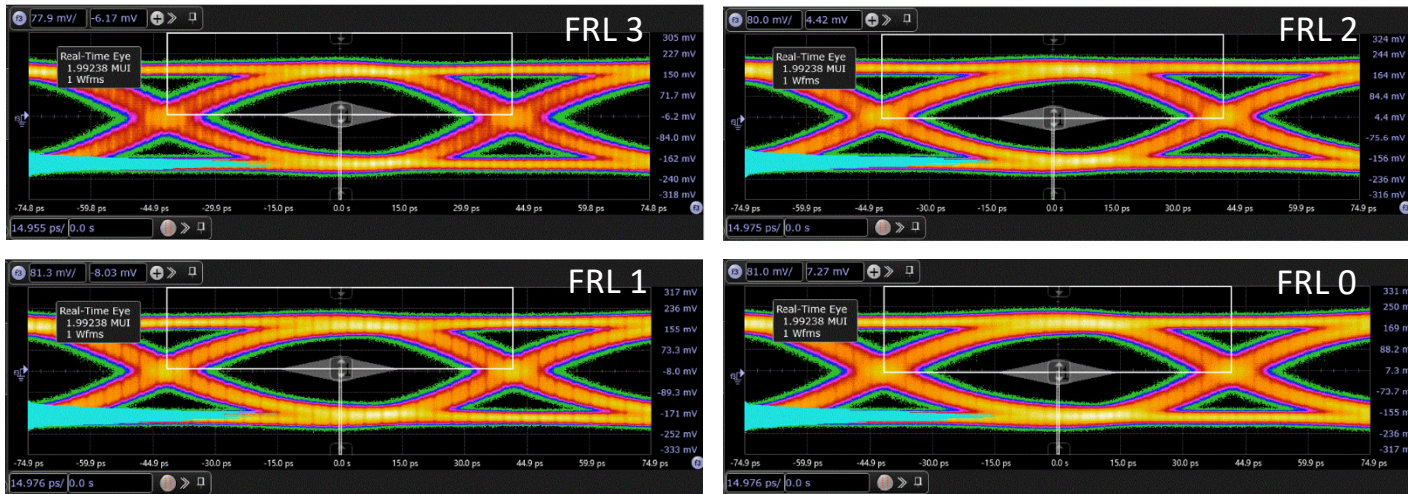
## REGULATORY COMPLIANCE

- EMI/EMC/Safety: CE, UL
- Environmental: RoHS, WEEE
- Lead-free (Pb-free)
- Ordering Information:

0.5m/1.6ft: **PXL8-CBH05**  
 1.0m/3.3ft: **PXL8-CBH10**  
 1.5m/4.9ft: **PXL8-CBH15**  
 2.0m/6.5ft: **PXL8-CBH20**



## EYE PATTERN ( JITTER ) MEASUREMENTS: HIGH-SPEED FRL 3:0 ( 11.88 GBPS, PRBS7 )



AGILENT Infiniium 86100C 12.5Gbps Digital Communication Analyzer - Eye Pattern Testing (Jitter Measurements)

## BANDWIDTH / FORMAT COMPARISON (UNCOMPRESSED)

FRL6 (48Gbps)	8K60 4:2:0 12-bit, 8K30 4:4:4 12-bit 4K120 4:4:4 12-bit
FRL5 (40Gbps)	10K60 4:2:0 8-bit, 10K30 4:2:2 8/12-bit, 10K30 4:4:4 8-bit 8K60 4:2:0 10-bit, 8K30 4:4:4 10-bit 5K120 4:2:2 8/12-bit, 5K120 4:4:4 8-bit 4K120 4:4:4 10-bit
FRL4 (32Gbps)	10K30 4:2:0 10/12-bit 8K60 4:2:0 8-bit, 8K30 4:2:2 8/12-bit, 8K30 4:4:4 8-bit 5K120 4:2:0 10/12-bit, 5K60 4:4:4 10/12-bit 4K120 4:4:4 8-bit, 4K120 4:2:2 8/12-bit
FRL3 (24Gbps)	10K30 4:2:0 8-bit 8K30 4:2:0 10/12-bit 5K120 4:2:0 8-bit, 5K60 4:2:2 8/12-bit, 5K60 4:4:4 8-bit 4K120 4:2:0 10/12-bit, 4K120 4:2:0 10/12-bit
FRL2 (18Gbps)	8K30 4:2:0 8-bit 5K60 4:2:0 8/12-bit, 5K30 4:2:2 8/12-bit, 5K30 4:4:4 8/12-bit 4K120 4:2:0 8-bit, 4K60 4:2:0 10/12-bit, 4K60 4:2:2 8/12-bit, 4K60 4:4:4 8/12-bit, 4K30 4:4:4 10/12-bit 1080p120 4:4:4 10/12-bit
FRL1 (9Gbps)	4K60 4:2:0 8-bit, 4K30 4:2:2 8/12-bit, 4K30 4:4:4 8-bit 1080p120 4:2:2 8/12-bit, 1080p120 4:4:4 8-bit

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