



THX INTERCONNECT

Introducing the THX® Interconnect, Ultra High Speed HDMI® Cable series. Designed with PIXELGEN, leaders in uncompressed connectivity methods, to ensure the highest level of signal integrity from a high-speed, low-speed & DC-power perspective while providing an ultra-thin and flexible cable.

Each THX® Interconnect cable is Ultra High Speed HDMI Certified supporting all HDMI 2.1b features including FRL/48Gbps, 8K-10K, Dynamic HDR, eARC, and the all-new gaming centric enhancements of VRR, ALLM, QFT & QMS.

Whether striving to master perfect symmetry within a professional rack design or simply connecting to inputs of an AVR or display, THX® Interconnect cables guarantee uncompressed 48Gbps signal delivery and total HDMI 2.1 transport functionality.

DESIGN SPECIFICATIONS

- **0.5m/1.6ft, 1.0m/3.3ft, 1.5m/4.9ft, 2.0m/6.5ft** (Cable Diameter/34AWG: 5.2mm)
- **3.0m/9.8ft** (Cable Diameter/30AWG: 6.7mm), **5.0m/16.4ft** (Cable Diameter/26AWG: 8.0mm)
- Ultra High Speed HDMI® Cable Certified (Full HDMI 2.1b functionality) and scannable UHS label
- Validated to THX® Certified 8K Interconnect Standards
- **Video:** Up to 8K-10K BT.2020 formats (Bandwidth/Format Comparison on back page)
- **HDR:** Dynamic (and Static) 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.x (backwards compatible HDCP 1.x)
- **Gaming:** VRR(Variable Refresh Rate), ALLM(Auto Low Latency Mode), QFT(Quick Frame Transport)

MECHANICAL / CONSTRUCTION

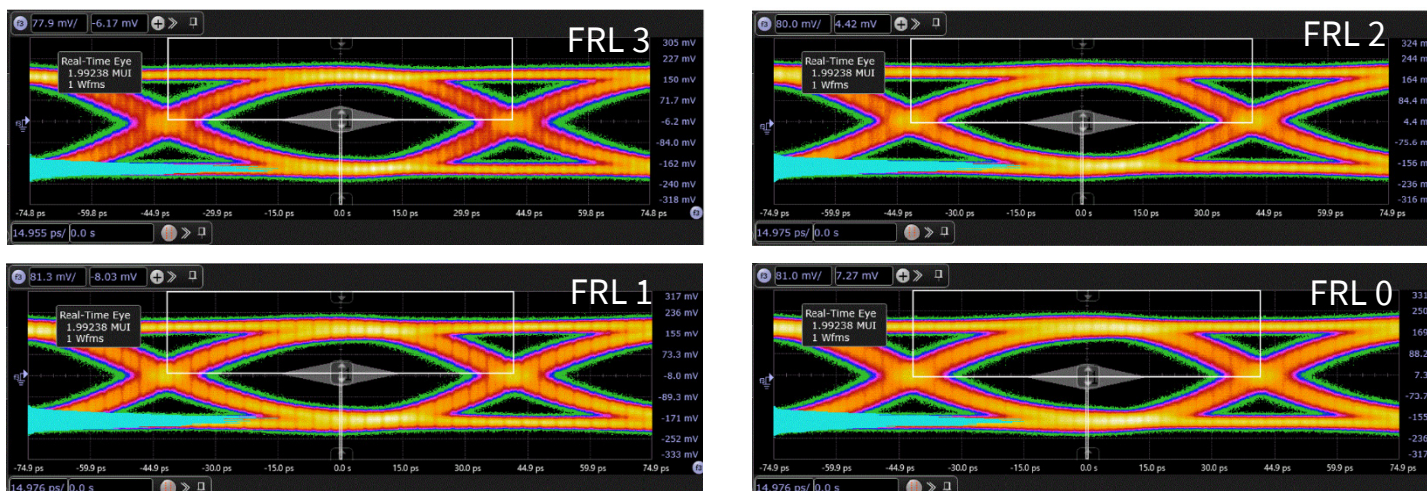
- Cable Diameter: 5.2 - 8.0mm (OD)
- HDMI Plugs: Gold-plated
- HDMI Casing/Strain Relief: PVC Black
- Retention Force (max): 3kg/6.6lbs
- Bend Radius: 25mm/1.0 inches (34AWG)
- 8C/34AWG (4 x High-speed FRL pairs)
- 2C/34AWG (1 x HEAC/eARC differential pair)
- 3C/34AWG (3 x DDC-SDA, DDC-SCL & CEC)
- 1C/28AWG (1 x 5V)
- EMI/EMC/Safety: CE, UL, RoHS, Pb-free

THX® Interconnect (SKU LIST)

PASSIVE (COPPER)	ACTIVE
THX-CBH05 0.5m/1.6ft	THX-HFC76 7.6m/24.9ft
THX-CBH10 1.0m/3.3ft	THX-HFC10 10m/32.8ft
THX-CBH15 1.5m/4.9ft	THX-HFC15 15m/49.2ft
THX-CBH20 2.0m/6.5ft	
THX-CBH30 3.0m/9.8ft	
THX-CBH50 5.0m/16.4ft	

Order at **PIXELGENDESIGN.COM**

EYE PATTERN (JITTER) MEASUREMENTS: HIGHSPEED FRL 3:0 (11.88 GBPS)



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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