



THX INTERCONNECT

Introducing THX® Interconnect, long-reach Ultra High Speed HDMI® Cable Series, capable of delivering 100% uncompressed High-speed FRL 48Gbps signals up to 8K60 and total HDMI 2.1b specification feature set up to 15m. THX® Interconnect is the industry's first long-reach HDMI solution to incorporate the award-winning PXLGLASS™ Hybrid Fiber/Copper technology by PIXELGEN.

Embedded within the HDMI plug ends, PXLGLASS™ modules are powered by the HDMI Source with no external power requirements. They convert and transport high-speed FRL signals (12Gbps/Lane, 48Gbps) over optical fibers while exchanging critical low-speed communication (HDCP 2.x, eARC, etc.) over copper, guaranteeing interoperability & and system robustness.

DESIGN SPECIFICATIONS

- Available in **7.6m/24.9ft**, **10m/32.8ft** & **15m/49.2ft** lengths (Directional, labeled 'Source' & 'Display')
- Embedded PXLGLASS™ Hybrid Fiber/Copper Technology
- Ultra High Speed HDMI® Cable Certified (Category 3 with full HDMI 2.1b functionality)
- Scannable UHS HDMI label affixed to packaging (via HDMI App - iOS, Android)
- Validated to THX® Certified 8K Interconnect Standards
- **Video:** Up to 8K-10K BT.2020 formats (Bandwidth/Format Comparison on back page)
- **HDR:** Dynamic (& 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.X (backward compatible HDCP 1.4)
- **Gaming:** VRR(Variable Refresh Rate), ALLM(Auto Low Latency Mode), QFT(Quick Frame Transport)

MECHANICAL / CONSTRUCTION

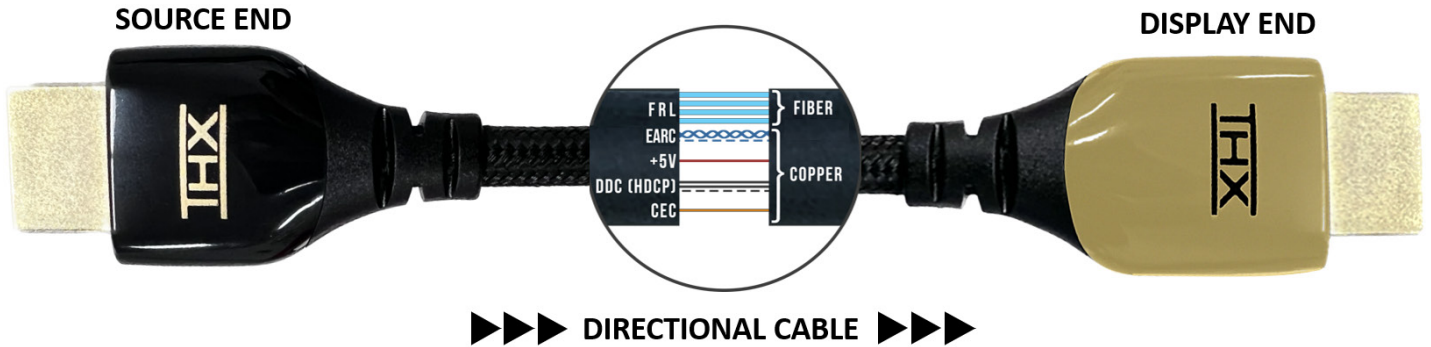
- **Optical Fiber:** High-speed FRL Signalling
- **Copper** (28-32AWG): DC (+5V) & Low-speed DDC (HDCP 2.x), CEC and HEAC (eARC)
- Cable Diameter (7.6m/10m/15m): 6.2mm OD
- HDMI Plugs: Gold-plated (CAT 3 HDMI Cert.)
- HDMI Casing/Strain Relief: Black Molded PVC
- Retention Force (max): 3kg/6.6lbs
- Bend Radius: 30mm(1.2 inches)
- EMI/EMC/Safety: CE, UL, RoHS, Pb-free

THX® Interconnect (SKU LIST)

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

Order at **PIXELGENDESIGN.COM**

HYBRID OPTICAL FIBER/COPPER IMPLEMENTATION



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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