



OxLinx™ LHM-PL “Pluggable” HDMI Active Optical Cable



PRODUCT DESCRIPTION

Lusem OxLinx LHM-PL “Pluggable” Active Optical HDMI Cables are intended for applications where longer cable run lengths than those obtainable with standard copper HDMI cables are required. They offer a considerably more elegant and cost-effective solution for long cable runs than Cat5E cable with converter box systems. They are also useful where cables need to pass through environments with high electrical interference.

The cable diameter is only 3.4mm and comprises four optical fibres for the video and audio signals, six copper wires for HDMI control signalling and CEC functions and Kevlar reinforcement for pulling strength. Power is drawn from the connected HDMI devices.

Also known as “Pluggable” versions, LHM-PL cables were developed to aid fixed installation. They are terminated with micro HDMI Type-D connectors which reduce the likelihood of snagging as the cable is pulled through conduit, fed through voids or behind plaster board. Other benefits may include applications where cables must pass through congested and/or small apertures, such as internally wired brackets and mounts.

Screw-locking micro HDMI-D to HDMI-A adapters are supplied with LHM-P HDMI cables.

Ordering Note: LUSEM ACTIVE HDMI cables require a typical operating voltage of 5V DC (Min. 4.8V – Max. 5.3V) at both Source and Display HDMI connector. HDMI compliant equipment will provide this via Pin. 18. Where a connected device fails to provide sufficient operating voltage an external power inserter may be considered.

PRODUCT KEY FEATURES

- Up to 4K 30Hz, 3D, Deep Color
- Multi-channel Audio, Dolby TrueHD, DTS-HD Master Audio
- HDMI 1.4 Compliant : EDID, CEC, HDCP
- EMI & RFI Immunity
- Plug & Play Operation
- Integrator-oriented removable HDMI-A ends for easy advanced wiring
- Interoperable field flexibility : HDMI-D with HDMI-A & HDMI-D with DVI-D single link
- Built-in Powering (No external power supplies required)
- High Pulling Strength & Compression Load
- Low Power Consumption
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum), IEC LSZH (Low Smoke Zero Halogen)

PRODUCT APPLICATIONS

- Professional AV System Interconnection
- In & Outdoor Digital Signage Panels & Kiosks
- Home Theater Systems
- Facility Automation Systems

ORDERING INFORMATION

Code	Length
38-8861	10m
38-8862	15m
38-8863	20m
38-8864	30m
38-8865	40m
38-8866	50m
38-8867	60m
38-8868	70m
38-8869	80m
38-8870	90m
38-8871	100m





PRODUCT SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min.	Typ.	Max	Unit
Supply Voltage	VCC	-0.5		6	V
Storage Temperature	T _{stg}	-30		70	°C
Relative Humidity	RH	5		85	%
Electrostatic Discharge Immunity (Air: 8kV, Contact: 6kV)		B			Class

RECOMMENDED CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Unit
Supply Voltage (All power supplied from HDMI port)	VCC	4.8	5	5.3	V
Operating Temperature	T _{OP}	0		50	°C

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Unit
Operating Current	I _{OP}	38	50	56	mA
Power Consumption	P _O	0.19	0.25	0.28	W
TMDS Differential Input Voltage	V _{ID}	400		1600	mV
TMDS Differential Output Voltage	V _{OD}	200	300	400	mV
TMDS data bit rate		250		3400	Mbps

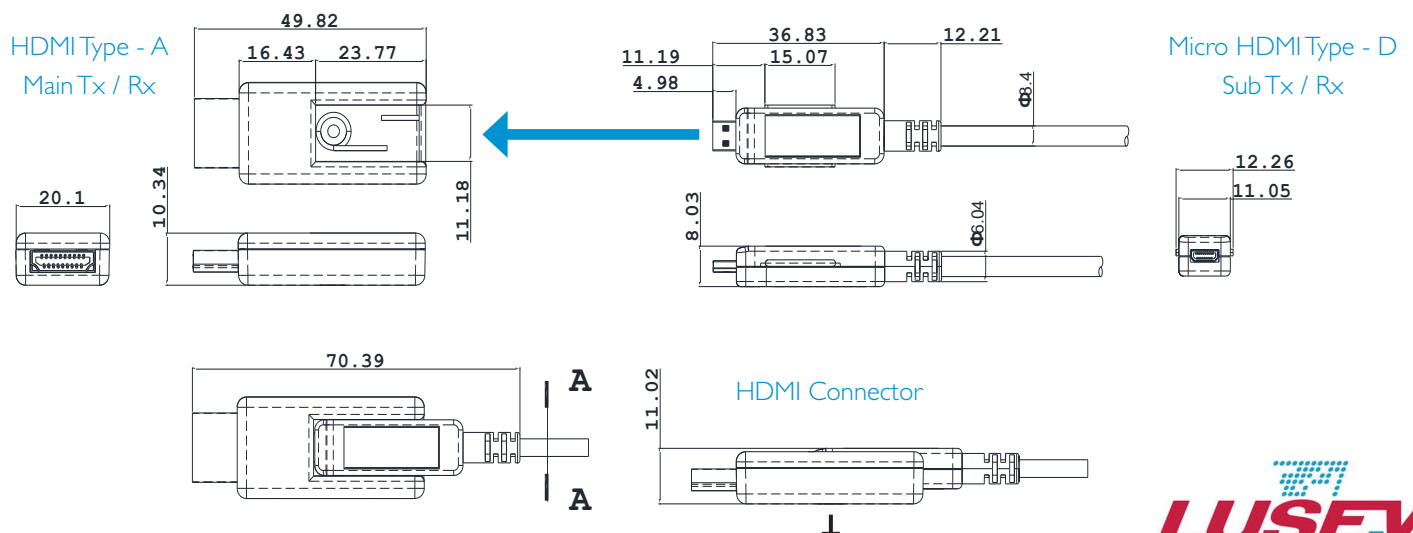
PHYSICAL CHARACTERISTICS

Parameter	Value	Unit
Cable Dimensions (WXH)	3.4mm (±0.2mm)	mm
Cable Color	Grey	-
Optical Fiber	Multi-mode fiber	-
Copper Wire	28 AWGTA (7/0.127mm)	-
Cable Jacket Material	CMP-OF (UL) & LSZH	-

PHYSICAL CHARACTERISTICS

Parameter	Value	Unit
Connector Pull Strength	10	Kg
Compression Load Resistance	50	Kg
Minimum Bending Radius	6	mm
Case Material	ABS (Acrylonitrile-Butadiene-Styrene)	-

PRODUCT DIMENSIONS (Unit : mm)



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