

## HDMI Active Optical Cable

High Speed 18GBPS, 2160P 4K@60Hz



### DESCRIPTION

CERTECH's range of HDMI Active Optical Cables (AOC), allow you to display HDMI sources at UHD 4K@60Hz

Using optical fibre, these cables provide high reliability HDMI signal transmission, with no signal loss or EMI interference, providing a much higher performance than any standard copper solution.

No external power source is required, as these operate exactly like a 1m cable.

### FEATURES

- Connector Type: HDMI Type A
- Transmission Bandwidth: 18Gbps
- HDCP Version: HDCP1.4/2.2
- Resolution: 480P, 720P, 1080i, 1080P, 3D, 4k@60Hz (4:4:4)
- Wire Specification: Hybrid type with optical fibre (50/125um) and copper wire
- FB/PIN: 4 CH 850nm VCSEL/PIN
- Power: HDMI +5V
- Working Current: ≤45mA
- Power Consumption: ≤250mw

### SPECIFICATIONS

Performance Parameter	Parameters of HDMI 2.0 AOC
Connector Type	HDMI Type A
Transmission bandwidth	18G
HDCP Version	HDCP1.4/2.2
Resolution	480P,720P,1080i,1080P,3D, 4K @60Hz(4:4:4)
Wire specifications	Optical fiber:50/125um Hybrid type with optical fibre and copper wire
FB/PIN	4 CH 850nm VCSEL/PIN
Power	HDMI +5V
Working current	≤45mA
Power Consumption	≤250mw



DESIGNED AND MANUFACTURED TO AUSTRALIAN STANDARDS AND CONDITIONS

Spec. Details	SGO
HDMI Cable Certification	10.0m - 100.0m ACTIVE OPTICAL
DPL Labs Certified aData Rate	6.0Gbps, 17.82Gbps agg
Support Data Rate	≥ 6.0Gbps, 17.82Gbps agg (4K UHD)
HDMI Clock	27-340MHz
Construction	
TDMS	4 x Polymer Insulated Glass Fibres
Conductors	30 AWG Tinned Copper wire
Insulation - TMDS	Polymer
4C + HEAC Pairs	Solid Polyolefin ≤ 2.0 relative permittivity
Shielding - Overall	AL/Braid
Cable Jacket Material	TPE Composite, 10m-100 lengths
HDMI Connector Shell	Premium guage folded steel 1μ" 24K Gold plated
HDMI Connector Pins	Solid OFC, 15μ" 24K Gold plated
Termination	Contactless IR induction soldering
Active Optical Technology	Directional, In-shell Optical Light Engine
HDMI Backshells	Orange & Charcoal powder coated with stoving varnishdie-casting zinc alloy shell assembly
Mechanical	
Cable Diameter	5.00mm ±0.2mm / 0.19 Ø
Mounting Depth	70.0mm/2.76"
Cable Bend Radius	20.0mm/0.78"
Retention Force (nom)	9.8N (1kg / 2.2lbs) + 10/-5%

Product Code	Description	Length
CHDMIAOCPRO10	CERTECH 10M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	10m
CHDMIAOCPRO15	CERTECH 15M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	15m
CHDMIAOCPRO20	CERTECH 20M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	20m
CHDMIAOCPRO30	CERTECH 30M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	30m
CHDMIAOCPRO50	CERTECH 50M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	50m
CHDMIAOCPRO70	CERTECH 70M HDMI Active Optical Cable, High Speed 18GBPS, 2160P 4K@60Hz	70m

