



Active, optical, HDMI 2.0 cables intended for installation applications where longer cable lengths than those obtainable with standard copper HDMI cables are required, (typically 10 – 15m max). They are also useful where the cable needs to pass through environments with high electrical interference. They offer a considerably more elegant and cost-effective solution for long cable runs than Cat5E cable with converter box systems. Applications include professional AV systems interconnection, indoor and outdoor digital signage, kiosks and home theatre systems in larger properties.

The cables are CPR certified Cca, s1, d0 and available in a range of lengths from 10 to 100 metres. Data transfer capability of 18Gbps, suitable for 4K at 60Hz with 48-bit colour-depth and 3D. Audio capabilities are 8-channel PCM, Dolby Digital True HD, or DTS-HD Master Audio.

The cables are terminated with micro HDMI type D connectors and supplied with adapters to fit full-size type A HDMI connectors. A power adapter cable, USB to DC, is included for scenarios where the HDMI connection on a device does not supply power, (typically display screens), a cable pulling tool is also supplied. The micro HDMI type D connectors aids with installation reducing the likelihood of snagging as the cable is pulled through conduit, voids or behind plaster board. Applications where cables must pass through congested and/or small apertures such as internally wired brackets and mounts also benefit from the HDMI type D connections. HDMI D to A type adapters are included to connect to most HDMI devices, the adapters also allow DC power connection when required. Replacement display and source adapters are available.

#### Ordering notes:

- 1 External power via the included USB to DC cable **may be** required. Check your HDMI devices if 5V power is implemented at the HDMI connector, (typically a problem with some display screens).
- 2 The cables are for fixed installation only and not intended nor suitable for deployable applications, (see CANFORD ACTIVE OPTICAL CABLES - HDMI 2.0 - Armoured – Deployable).

**Specifications:**

HDCP & DDC:	HDCP2.2 Fully Support bi-directional EDID and HDCP communication		
Video Bandwidth:	6 Gbps x3 Channel (max) + Clock.		
Supported HDTV Resolutions:	480p, 720p, 1080i and 1080p deep color, 4K@30Hz, 4K@60Hz (4:4:4), 3D Full HD 1920 x 1080		
O/E Converter:	Transmitter (Source):	4 channel 850 nm VCSEL array	
	Receiver (Display):	4 channel GaAs PD array	
Connector Type:	HDMI type D on cable, (HDMI D/Female to HDMI A/Male Adaptors included).		
Connector Dimensions:	Type D:	44.2mm x 12.7mm x 7.1mm	(W, D, H)
	Type A :	48.2mm x 20mm x 10mm	(W, D, H)
	Pulling Tool:	55.2mm x 17.5mm x 13mm	(W, D, H)
Cable Type:	Hybrid type with OM3 fiber and copper wire		
Cable Outer Diameter:	4.5mm		
Min Bend Radius:	20mm		
Jacket Outer Material:	PVC/TPU	(Custom)	
CPR Class:	Cca, s1, d0		
Operating Temp.:	0 to 50 °C	(Storage: -40 to 70 °C)	
Differential Input:	100 ohm	(typ)	
Power Consumption:	250mW	(max)	

- 38-8681 CANFORD AO-HDMI2-10 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 10 metres
- 38-8682 CANFORD AO-HDMI2-15 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 15 metres
- 38-8683 CANFORD AO-HDMI2-20 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 20 metres
- 38-8684 CANFORD AO-HDMI2-30 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 30 metres
- 38-8685 CANFORD AO-HDMI2-40 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 40 metres
- 38-8686 CANFORD AO-HDMI2-50 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 50 metres
- 38-8687 CANFORD AO-HDMI2-60 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 60 metres
- 38-8688 CANFORD AO-HDMI2-70 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 70 metres
- 38-8689 CANFORD AO-HDMI2-80 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 80 metres
- 38-8690 CANFORD AO-HDMI2-90 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 90 metres
- 38-8691 CANFORD AO-HDMI2-100 Active optical cable, HDMI2.0, Micro HDMI-D to A adapters, 100 metres

- 38-8692 CANFORD SHDC-D5 Replacement Display HDMI adapter micro HDMI type-D to HDMI type-A
- 38-8693 CANFORD SHDC-S5 Replacement Source HDMI adapter micro HDMI type-D to HDMI type-A