

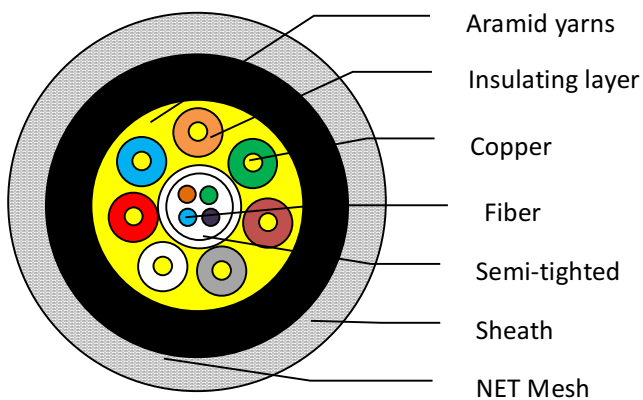
## Install Bay Hybrid HDMI AOC Fiber Cable Specification



### 1. Description:

HDMI cable is comprised of four fibers and seven copper wires, aramid yarns strength, black PVC sheath.

### 2. Product section



### 3. Optical fiber parameter table

characteristics		Specified values
type		50/125
Geometry	Core diameter, $\mu\text{m}$	$50\pm 2.5$
	Cladding diameter, $\mu\text{m}$	$125\pm 1.0$
	Core non-circularity, %	$\leq 6.0$
	Cladding non-circularity, %	$\leq 2.0$
	Core/cladding concentricity error $\mu\text{m}$	$\leq 1.5$
	Coating diameter, $\mu\text{m}$	$245\pm 10$
	coating non-circularity, %	$\leq 6.0$
	Coating/cladding concentricity error, $\mu\text{m}$	$\leq 12$
Numerical aperture ,NA		$0.200\pm 0.015$
Bandwidth ,MHz.km	850nm	$\geq 700$
	1300nm	$\geq 500$
Attenuation ,dB/km	850nm	$\leq 3.5$
	1300nm	$\leq 1.2$
Note	Only for indoor cable	

### 4. Optical cable parameter table

Item	structure parameter			
electronic cords	AWG30 copper conductor			
	conductor	conductor	copper	
		structure	Single cord	
		Diameter	0.254mm	
		Section area	$0.0507\text{mm}^2$	
		resistance	$361\Omega/\text{km}$	
	Insulation	Material	PVC	
		Color	Blue, orange, green, brown, grey, white, red	
		thickness	0.20mm	
		Diameter	$0.60\pm 0.05\text{mm}$	
Optical unite	Four fibers			
	Fiber	Type	50/125	
		Color	Blue, orange, green, brown	
	Semi-tighted	Material	Low smoke zero halogen	
		thickness	0.2mm	
		diameter	$1.1\pm 0.1\text{mm}$	

Cable	Strand	Direction	S direction
		Strand diameter	2.4±0.2mm
	Strength	Material	Aramid yarns
Sheath	Sheath	Material	Light PVC
		Color	black
		Thickness	0.6mm
		Diameter	4.5±0.2mm
	sign	No label	

## 5. Mechanical properties and Environmental performance

Item	Units	Specified values
Tensile strength (short-term)	N	300
Tensile strength (Long-term)	N	150
Crush resistance (short-term)	N/100mm	600
Crush resistance (Long-term)	N/100mm	300
Minimum bending radius (dynamic)	mm	20D
Minimum bending radius (static)	mm	10D
Install temperature	°C / °F	-10 ~+ 50 / 14 – 122
Operating temperature	°C / °F	-20 ~+ 60 / -4 – 140
Storage temperature	°C / °F	-20 ~+ 60 / -4 – 140
Flame retardant	UL Approved	IB-HDAO C CL3 / IB-HDAOCP CMP
RoHS directive		Pass



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