RGBlink®

AOC Cable Family

——Active Optical Cable



Technical Specification

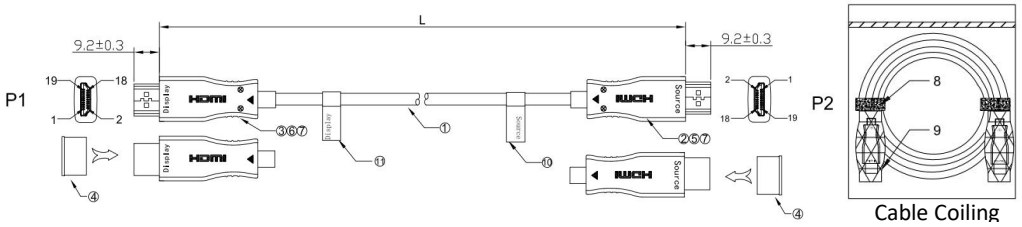
Specification

HDMI 2.0 AOC



Key Features

- Zinc alloy shell and gold plated connectors
- Data rate up to 18Gbps
- HDMI 2.0 compatible
- EMI/RFI resistant
- No loss of signal – delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX



Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
Performance	**Resolution**	2560×1440 @144Hz	3840×2160 @30Hz	3840×2160 @60Hz	3840×2160 @60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV422
	Bit Depth	8bit	12bit	8bit	10bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	300N			
	Supported Standards	HDMI 2.0, HDCP 1.4, HDCP 2.2			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Outter Jacket	65P PVC RoHS		
	OD	OD 4.8mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	953-00XX-00-1			

Note: A free cable reel is provided for AOC exceeding 40 meters in length.

HDMI 2.1 AOC



Key Features

- Up to 200m Maximum Length (Custom Length Available)
- Low Power Consumption: 250mW (max) (No need external power)
- Plug and Play
- Compatible with HDMI 2.1 standard and backward (HDMI 2.0, HDMI 1.4)
- Support Dynatmic HDR,CEC,HDMI 3D, eARC,VRR,ALLM,QMS
- No loss of signal – delivering crystal clear digital images instantly
- Supports resolutions up to 10K
- Hybrid optical cable with fiber and copper wire



Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
Performance	**Resolution**	3840×2160@ 120Hz	7680×4320@ 60Hz	7680×4320@ 60Hz	7680×4320@ 30Hz
	Color Space	RGB YUV444	YUV422	RGB YUV444	RGB YUV444
	Bit Depth	8bit	10bit	8bit	12bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	245N			
	Supported Standards	HDMI	2.1		
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Outter Jacket	65P PVC RoHS		
	OD	OD 4.8mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	956-00XX-00-1			

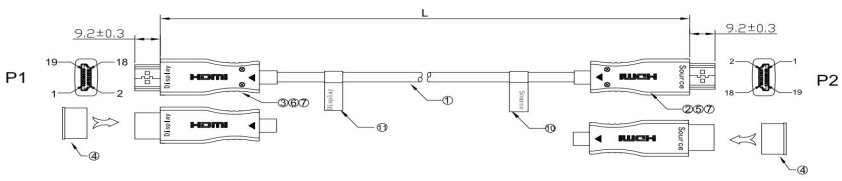
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

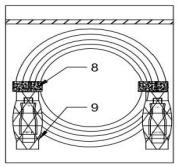
Armored HDMI 2.0 AOC



Key Features

- Zinc alloy shell and gold plated connectors
- High maganese steel armor
- Data rate up to 18Gbps
- HDMI 2.0 compatible
- EMI/RFI resistant
- No loss of signal – delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX





Cable Coiling

Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
Performance	**Resolution**	2560×1440 @144Hz	3840×2160 @30Hz	3840×2160 @60Hz	3840×2160 @60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV422
	Bit Depth	8bit	12bit	8bit	10bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm (min)			
	Tensile Resistance	300N (max)			
	Supported Standards	HDMI 2.0, HDCP 1.4, HDCP 2.2			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Armor	high maganese steel		
		Outter Jacket	65P PVC RoHS		
	OD	OD 5.8-6.0mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	952-00XX-00-1			

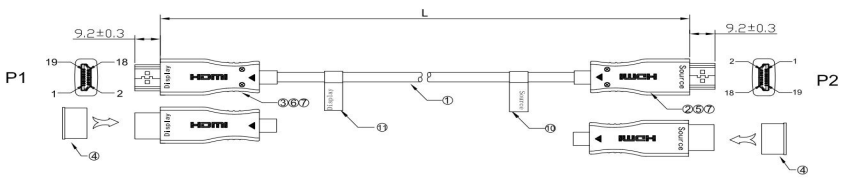
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

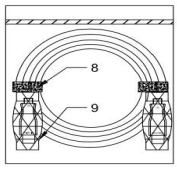
Armored HDMI 2.1 AOC



Key Features

- Zinc alloy shell and gold plated connectors
- High maganese steel armor
- Data rate up to 48Gbps
- HDMI 2.1 compatible
- EMI/RFI resistant
- No loss of signal–delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX





Cable Coiling

Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
Performance	**Resolution**	3840×2160@ 120Hz	7680×4320@ 60Hz	7680×4320@ 60Hz	7680×4320@ 30Hz
	Color Space	RGB YUV444	YUV422	RGB YUV444	RGB YUV444
	Bit Depth	8bit	10bit	8bit	12bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm (min)			
	Tensile Resistance	300N (max)			
	Supported Standards	HDMI 2.1, HDCP 1.4, HDCP 2.3			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Armor	high maganese steel		
		Outter Jacket	65P PVC RoHS		
	OD	OD 5.8-6.0mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	956-00XX-00-3			

Note: A free cable reel is provided for AOC exceeding 40 meters in length.

Detachable HDMI 2.0 AOC					
		**Key Features** • Zinc alloy shell and gold plated connectors • Data rate up to 18Gbps • HDMI 2.0 compatible • EMI/RFI resistant • No loss of signal – delivering crystal clear digital images instantly • Hybrid optical cable with fiber and copper wire • Complies with ROHS 2.0 environmental protection standards • Insulation resistance: 5MΩ MIN/300V DC 0.01S • Conductance resistance: 20Ω MAX			
Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
			Micro HDMI Type-D		
Performance	**Resolution**	2560×1440 @144Hz	3840×2160 @30Hz	3840×2160 @60Hz	3840×2160 @60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV422
	Bit Depth	8bit	12bit	8bit	10bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	300N			
	Supported Standards	HDMI 2.0, HDCP 1.4, HDCP 2.2			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Outter Jacket	65P PVC RoHS		
	OD	OD 4.8mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	953-00XX-00-2			

Note: A free cable reel is provided for AOC exceeding 40 meters in length.

Detachable HDMI 2.1 AOC					
		**Key Features** • Zinc alloy shell and gold plated connectors • Data rate up to 48Gbps • HDMI 2.1 compatible • EMI/RFI resistant • No loss of signal–delivering crystal clear digital images instantly • Hybrid optical cable with fiber and copper wire • Complies with ROHS 2.0 environmental protection standards • Insulation resistance: 5MΩ MIN/300V DC 0.01S • Conductance resistance: 20Ω MAX			
Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
			Micro HDMI Type-D		
Performance	**Resolution**	3840×2160@ 120Hz	7680×4320@ 60Hz	7680×4320@ 60Hz	7680×4320@ 30Hz
	Color Space	RGB YUV444	YUV422	RGB YUV444	RGB YUV444
	Bit Depth	8bit	10bit	8bit	12bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	300N			
	Supported Standards	HDMI 2.1, HDCP 1.4, HDCP 2.3			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Outter Jacket	65P PVC RoHS		
	OD	OD 4.8mm			
	Length	200m(max)			
Order Code	**XXXm (3~200m)**	956-00XX-00-2			

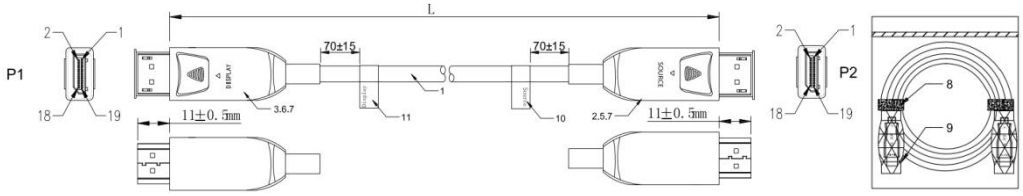
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

DP 1.4 AOC



Key Features

- Up to 100m Maximum Length (Custom Length Available)
- Plug and Play ,no need external power
- Supports 8K60Hz/4K144Hz
- Compatible with DP 1.4 standard and backward (DP 1.2)
- EMI/RFI resistant
- No loss of signal–delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX



Connector	**Input**	SOURCE	HDMI Type-A M	
	Output	DISPLAY	HDMI Type-A M	
			Micro HDMI Type-D	
Performance	**Resolution**	2560×1440@165Hz	3840×2160@120Hz	7680×4320@60Hz
	Color Space	RGB YUV444	RGB YUV 422 YUV444	YUV420
	Bit Depth	8-10bit	10bit	10bit
	Audio Sample rate	192KHz		
	Audio Bit Depth	24bit		
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array	
		DISPLAY	4 CH GaAs PD array	
	Bending Radius	20mm		
	Tensile Resistance	300N		
	Supported Standards	DisplayPort 1.4, HBR3, HDCP 1.4, HDCP 2.2		
Environment	**Temperature**	-0℃~70℃		
	Humidity	5%~ 90%		
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid	
		Outter Jacket	PVC RoHS	
	OD	OD 4.8mm		
	Length	100m(max)		
Order Code	**XXXm (3~100m)**	951-00XX-00-0		

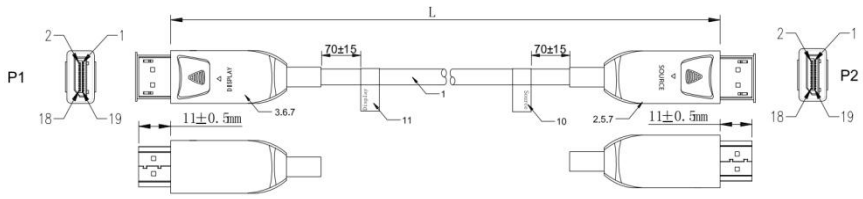
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

DP-HDMI AOC 4K



Key Features

- Up to 100m Maximum Length (Custom Length Available)
- Plug and Play ,no need external power
- Supports 4K60Hz
- Compatible with DP 1.2 standard and HDMI 2.0
- EMI/RFI resistant
- No loss of signal – delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX



Connector	**Input**	SOURCE	HDMI Type-A M		
	Output	DISPLAY	HDMI Type-A M		
			Micro HDMI Type-D		
	Resolution	1920×1080@ 120Hz/144Hz/165Hz	1920×1080@ 240Hz	3840×2160@ 60Hz	3840×2160@ 60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV422
	Bit Depth	8bit | 10bit	8bit	8bit	10bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	300N			
	Supported Standards	HDMI 2.0, HDCP 1.4, HDCP 2.2			
Environment	**Temperature**	-0℃~70℃			
	Humidity	5%~ 90%			
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid		
		Outter Jacket	PVC RoHS		
	OD	OD 4.8mm			

	Length	100m(max)
Order Code	**XXXm (3~100m)**	955-00XX-00-0

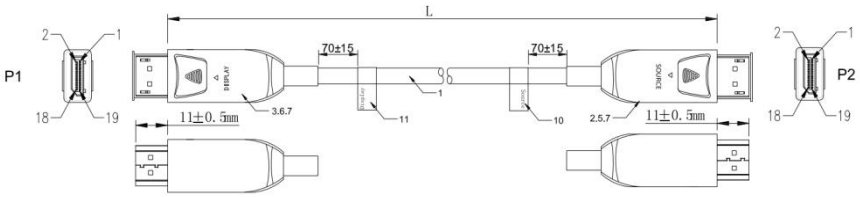
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

DP-HDMI AOC 8K



Key Features

- Up to 100m Maximum Length (Custom Length Available)
- Plug and Play ,no need external power
- Supports 8K60Hz
- Compatible with DP 1.4 standard and HDMI 2.1
- EMI/RFI resistant
- No loss of signal – delivering crystal clear digital images instantly
- Hybrid optical cable with fiber and copper wire
- Complies with ROHS 2.0 environmental protection standards
- Insulation resistance: 5MΩ MIN/300V DC 0.01S
- Conductance resistance: 20Ω MAX



Connector	**Input**	SOURCE	DisplayPort		
	Output	DISPLAY	HDMI Type-A M		
			Micro HDMI Type-D		
Performance	**model**	DP-HDMI AOC 4K		DP-HDMI AOC 8K	
	Resolution	1920×1080@144Hz/165Hz/240Hz	2560×1440@144/165Hz	3840×2160@120Hz	7680×4320@60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV420
	Bit Depth	8bit | 10bit | 12bit	8bit | 10bit | 12bit	8bit |10bit	8bit
	Audio Sample rate	192KHz			
	Audio Bit Depth	24bit			
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array		
		DISPLAY	4 CH GaAs PD array		
	Bending Radius	20mm			
	Tensile Resistance	300N			
	Supported Standards	DisplayPort 1.4, HBR3, HDCP 1.4, HDCP 2.2			
Environment	**Temperature**	-0℃~70℃			

	Humidity	5%~ 90%	
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid
		Outter Jacket	PVC RoHS
	OD	OD 4.8mm	
	Length	100m(max)	
Order Code	**XXXm (3~100m)**	955-0XXX-01-0	

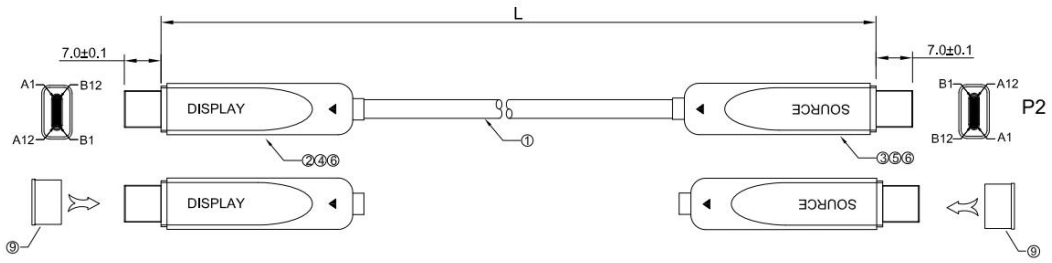
Note: A free cable reel is provided for AOC exceeding 40 meters in length.

Full Featured USB-C AOC



Key Features

- 8K@60 4K@144Hz Video
- Auto adaptive - 4-channel DisplayPort 2.1 + USB 2.0 / 2-channel DisplayPort 1.4 + USB 3.2 mode
- Transfer Rates — Up to 10Gbps.
- Current Rating — 60W power (10m)/40W (15m)
- Compatibility — PC, Mac & Mobile.
- Plug and Play — For monitors, Web cameras, printers, scanners, keyboards and other digital devices.
- USB Backward Compatibility — 1.0, 1.1, 2.0, and 3.0



Connector	**Input**	SOURCE	DisplayPort		
	Output	DISPLAY	HDMI Type-A M		
			Micro HDMI Type-D		
Performance	**model**	DP-HDMI AOC 4K		DP-HDMI AOC 8K	
	Resolution	1920×1080@ 144Hz/165Hz/240 Hz	2560×1440@ 144/165Hz	3840×2160@ 120Hz	7680×4320@ 60Hz
	Color Space	RGB YUV444	RGB YUV444	RGB YUV444	YUV420
	Bit Depth	8bit | 10bit | 12bit	8bit | 10bit | 12bit	8bit |10bit	8bit
	Audio Sample rate	192KHz			
	Audio Bit	24bit			

	Depth		
	O/E Converter	SOURCE	4 channel 850 nm VCSEL array
		DISPLAY	4 CH GaAs PD array
	Bending Radius	20mm	
	Tensile Resistance	300N	
	Supported Standards	USB3.2	
Environment	**Temperature**	-0℃~70℃	
	Humidity	5%~ 90%	
Cable	**Material**	Conductor	4-core fiber optic + 7-core copper hybrid
		Outter Jacket	PVC RoHS
	OD	OD 4.8mm	
	Length	15m(max)	

Order Codes

HDMI 2.0 AOC					
3M	953-0003-00-1	30M	953-0030-00-1	80M	953-0080-00-1
5M	953-0005-00-1	35M	953-0035-00-1	90M	953-0090-00-1
10M	953-0010-00-1	40M	953-0040-00-1	100M	953-0100-00-1
15M	953-0015-00-1	50M	953-0050-00-1	150M	953-0150-00-1
20M	953-0020-00-1	60M	953-0060-00-1	200M	953-0200-00-1
25M	953-0025-00-1	70M	953-0070-00-1		
HDMI 2.1 AOC					
3M	956-0003-00-1	30M	956-0030-00-1	80M	956-0080-00-1
5M	956-0005-00-1	35M	956-0035-00-1	90M	956-0090-00-1
10M	956-0010-00-1	40M	956-0040-00-1	100M	956-0100-00-1
15M	956-0015-00-1	50M	956-0050-00-1	150M	956-0150-00-1
20M	956-0020-00-1	60M	956-0060-00-1	200M	956-0200-00-1
25M	956-0025-00-1	70M	956-0070-00-1		
Armored HDMI 2.0 AOC					
3M	952-0003-00-1	30M	952-0030-00-1	80M	952-0080-00-1
5M	952-0005-00-1	35M	952-0035-00-1	90M	952-0090-00-1
10M	952-0010-00-1	40M	952-0040-00-1	100M	952-0100-00-1
15M	952-0015-00-1	50M	952-0050-00-1	150M	952-0150-00-1
20M	952-0020-00-1	60M	952-0060-00-1	200M	952-0200-00-1
25M	952-0025-00-1	70M	952-0070-00-1		
Armored HDMI 2.1 AOC					
3M	956-0003-00-3	30M	956-0030-00-3	80M	956-0080-00-3
5M	956-0005-00-3	35M	956-0035-00-3	90M	956-0090-00-3
10M	956-0010-00-3	40M	956-0040-00-3	100M	956-0100-00-3
15M	956-0015-00-3	50M	956-0050-00-3	150M	956-0150-00-3
20M	956-0020-00-3	60M	956-0060-00-3	200M	956-0200-00-3
25M	956-0025-00-3	70M	956-0070-00-3		
Detachable HDMI 2.0 AOC					
3M	953-0003-00-2	30M	953-0030-00-2	80M	953-0080-00-2
5M	953-0005-00-2	35M	953-0035-00-2	90M	953-0090-00-2
10M	953-0010-00-2	40M	953-0040-00-2	100M	953-0100-00-2
15M	953-0015-00-2	50M	953-0050-00-2	150M	953-0150-00-2
20M	953-0020-00-2	60M	953-0060-00-2	200M	953-0200-00-2
25M	953-0025-00-2	70M	953-0070-00-2		

Detachable HDMI 2.1 AOC					
3M	956-0003-00-2	30M	956-0030-00-2	80M	956-0080-00-2
5M	956-0005-00-2	35M	956-0035-00-2	90M	956-0090-00-2
10M	956-0010-00-2	40M	956-0040-00-2	100M	956-0100-00-2
15M	956-0015-00-2	50M	956-0050-00-2	150M	956-0150-00-2
20M	956-0020-00-2	60M	956-0060-00-2	200M	956-0200-00-2
25M	956-0025-00-2	70M	956-0070-00-2		
DP 1.4 AOC					
3M	951-0003-00-0	30M	951-0030-00-0	80M	951-0080-00-0
5M	951-0005-00-0	35M	951-0035-00-0	90M	951-0090-00-0
10M	951-0010-00-0	40M	951-0040-00-0	100M	951-0100-00-0
15M	951-0015-00-0	50M	951-0050-00-0		
20M	951-0020-00-0	60M	951-0060-00-0		
25M	951-0025-00-0	70M	951-0070-00-0		
DP-HDMI AOC 4K					
5M	955-0005-00-0	30M	955-0030-00-0	70M	955-0070-00-0
10M	955-0010-00-0	35M	955-0035-00-0	80M	955-0080-00-0
15M	955-0015-00-0	40M	955-0040-00-0	90M	955-0090-00-0
20M	955-0020-00-0	50M	955-0050-00-0	100M	955-0100-00-0
25M	955-0025-00-0	60M	955-0060-00-0		
DP-HDMI AOC 8K					
5M	955-0005-01-0	30M	955-0030-01-0	70M	955-0070-01-0
10M	955-0010-01-0	35M	955-0035-01-0	80M	955-0080-01-0
15M	955-0015-01-0	40M	955-0040-01-0	90M	955-0090-01-0
20M	955-0020-01-0	50M	955-0050-01-0	100M	955-0100-01-0
25M	955-0025-01-0	60M	955-0060-01-0		
USB-C AOC					
5M	958-0005-00-0	10M	958-0010-00-0	15M	958-0015-00-0

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