

## USB Type-C Active Optical Cable NP-AOC-SUSC-xx

NP-AOC-SUSC is a full-featured Active Optical Cable as it extends 4K@60 video signals and USB 3.2 / 2.0 / 1.1 data up to 15 m with USB optical extension cable and USB-C connectors.  
Cable weight for easy installation since power supplied from the connected host devices such as PC, no external power supply required.

### ■ Specification

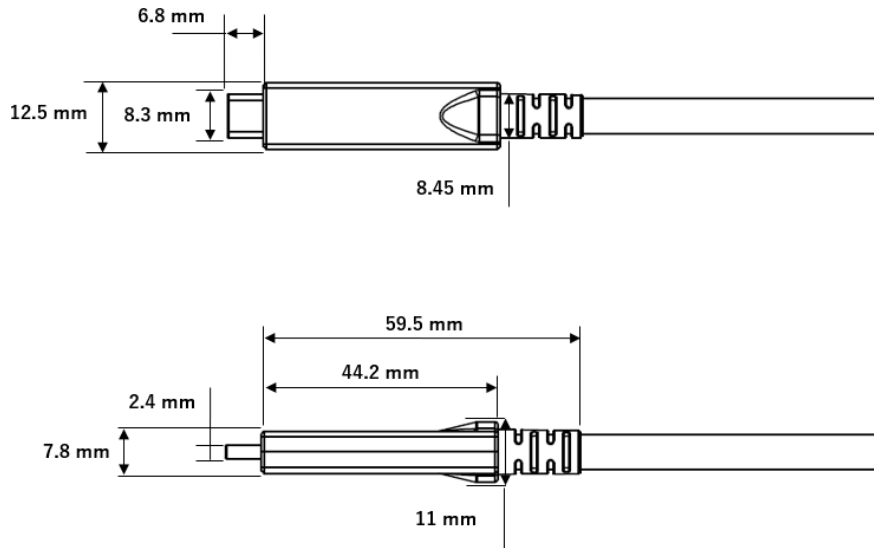
NP-AOC-SUSC	
USB	USB 3.2 Gen2x1 / USB 2.0 / USB 1.1  USB Data speed: SuperSpeed USB 10Gbps / High-Speed / Full-Speed / Low-Speed Data rate: 10 Gbps
Alternate Mode	DisplayPort Alternate Mode on USB Type-C, DisplayPort 1.4 Transmission Bandwidth: 8.1 Gbps / 1 Lane (DisplayPort 1.4)
Resolution	640x480@60 to 2560x1600@60 Reduce Blanking, 480i, 576i to 3840x2160@24 / 25 / 30 / 50 / 59.94 / 60 (4:4:4), 3840x2160@50 / 59.94 / 60 (4:2:0), 4096x2160@24 / 25 / 30 / 50 / 59.94 / 60 (4:4:4), 4096x2160@50 / 59.94 / 60 (4:2:0) Color Depth: 24, 30, 36 bits ※Reference Sheet below
USB Power Delivery	~ 10 m: Max 60 W (20 V / 3 A) 15 m: Max 40 W
Connector	USB Type-C
Length	5 ~ 15 m (*1)
Structure	Optical Multi mode3 composite optical cable
Skin	PVC
Diameter	6.5 mm
Bending Radius	20 mm (permanent bending radius)
Pull Length	Approx. 10.2 kg (Cable and connector joint)
AC adapter	Supplied from connected host devices (Host side) (* 2)
Available Current	Approx. 1.1 W
Dimensions	12.5 (W) x 7.8 (H) x 66.3 (D) mm (connector)
Weight	0.96 kg (15 m)
Temperature	Operating: 0 °C to +40 °C      Storage: -20 °C to +70 °C
Humidity	20 % to 85 % (No condensation)

- (\* 1) The maximum extension distance is not guaranteed for all devices. When using in an environment of 15m or more, it is recommended to verify the connection in advance.  
(\* 2) We recommend that you verify in advance that sufficient power is supplied from the host device.

### ■ Part Number

Length	P / N
5 m	NP-AOC-SUSC-05
10 m	NP-AOC-SUSC-10
15 m	NP-AOC-SUSC-15

### ■ Image



USB Type-C Active Optical Cable  
**NP-AOC-SUSC-xx**  
**Resolution Reference Sheet**

Signal	Resolution	Frame Rate [Hz]	Pixel Clock [MHz]	Color Depth [bits]	NP-AOC-SUSC
640x480@60	640x480	59.94	25.18	24 / 30 / 36	○
800x600@60	800x600	60.32	40.00	24 / 30 / 36	○
1024x768@60	1024x768	60.00	65.00	24 / 30 / 36	○
1280x768@60	1280x768	59.87	79.50	24 / 30 / 36	○
1280x800@60	1280x800	59.84	83.50	24 / 30 / 36	○
1280x960@60	1280x960	60.00	108.00	24 / 30 / 36	○
1280x1024@60	1280x1024	60.02	108.00	24 / 30 / 36	○
1360x768@60	1360x768	60.02	85.50	24 / 30 / 36	○
1366x768@60	1366x768	59.79	85.50	24 / 30 / 36	○
1400x1050@60	1400x1050	59.98	121.75	24 / 30 / 36	○
1440x900@60	1440x900	59.89	106.50	24 / 30 / 36	○
1600x900@60	1600x900	60.00	118.25	24 / 30 / 36	○
1600x1200@60	1600x1200	60.00	162.00	24 / 30 / 36	○
1680x1050@60	1680x1050	59.95	146.25	24 / 30 / 36	○
1920x1080@60 RB	1920x1080	59.93	138.50	24 / 30 / 36	○
1920x1200@60 RB	1920x1200	59.95	154.00	24 / 30 / 36	○
2048x1152@60 RB	2048x1152	60.00	162.00	24 / 30 / 36	○
2560x1440@60 RB	2560x1440	59.95	241.50	24 / 30 / 36	○
2560x1600@60 RB	2560x1600	59.97	268.50	24 / 30 / 36	○
480i	720x480	59.94	27.00	24 / 30 / 36	-
480p	720x480	59.94	27.00	24 / 30 / 36	○
576i	720x576	50.00	27.00	24 / 30 / 36	-
576p	720x576	50.00	27.00	24 / 30 / 36	○
720p@50	1280x720	50.00	74.25	24 / 30 / 36	○
720p@59.94	1280x720	59.94	74.18	24 / 30 / 36	○
720p@60	1280x720	60.00	74.25	24 / 30 / 36	○
1080i@50	1920x1080	50.00	74.25	24 / 30 / 36	-
1080i@59.94	1920x1080	59.94	74.18	24 / 30 / 36	-
1080i@60	1920x1080	60.00	74.25	24 / 30 / 36	-
1080p@50	1920x1080	50.00	148.50	24 / 30 / 36	○
1080p@59.94	1920x1080	59.94	148.35	24 / 30 / 36	○
1080p@60	1920x1080	60.00	148.50	24 / 30 / 36	○
3840x2160@24	3840x2160	24.00	297.00	24 / 30 / 36	○
3840x2160@25	3840x2160	25.00	297.00	24 / 30 / 36	○
3840x2160@30	3840x2160	30.00	297.00	24 / 30 / 36	○
3840x2160@50	3840x2160	50.00	594.00	24 / 30 / 36*	○
3840x2160@59.94	3840x2160	59.94	593.41	24 / 30 / 36*	○
3840x2160@60	3840x2160	60.00	594.00	24 / 30 / 36*	○
4096x2160@24	4096x2160	24.00	297.00	24 / 30 / 36	○
4096x2160@25	4096x2160	25.00	297.00	24 / 30 / 36	○
4096x2160@30	4096x2160	30.00	297.00	24 / 30 / 36	○
4096x2160@50	4096x2160	50.00	594.00	24 / 30 / 36*	○
4096x2160@59.94	4096x2160	59.94	593.41	24 / 30 / 36*	○
4096x2160@60	4096x2160	60.00	594.00	24 / 30 / 36*	○

RB: Reduced Blanking  
 ※ Chroma subsampling 4:2:0