



- Hybrid optical cable with fibre and copper
- High speed and long length USB 3.2 cables
- No loss of signal and reduced EMI/RFI
- Plug and Play
- Flammability VW-1 rated
- Available in custom lengths up to specified range(30m or 50m)*

BUCCANEER FOR DATA
AO Series Active Optical USB

Active Optical

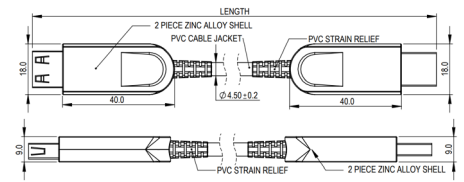


AO A-A Extension Cable



AOUS1/XXX

- Active Optical USB 3.2 Gen1 Cable, A Male to A Female with PVC Jacket
- Available in lengths: 10, 20, and 30m
- USB 3.0 type A cable extension
- Up to 5Gbps



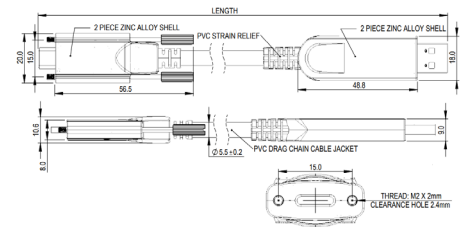
Part no.	Length	Description
AOUS1/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket

AO Drag Chain A-C Screw Cable



AOUS2/XXX

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, Drag Chain Jacket with Screws
- Available in lengths: 5, 8, 10, 15, 20, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 10Gbps



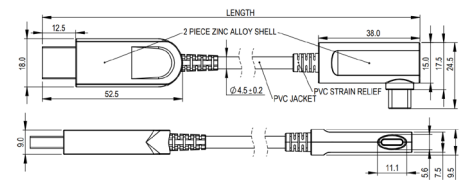
Part no.	Length	Description
AOUS2/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/080	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws

AO Drag Chain A-C 90° Cable



AOUS3/XXX

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, PVC Jacket Right Angle
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- 90-degree angle design for limited space connections
- Up to 10Gbps



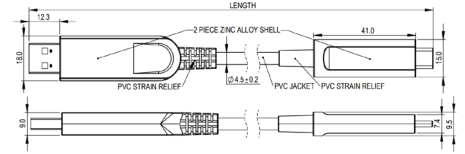
Part no.	Length	Description
AOUS3/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle

AO A-C Cable



AOUS4/XXX

- Active Optical USB 3.2 Gen2 Cable, A male to C male PVC jacket no screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Up to 10Gbps



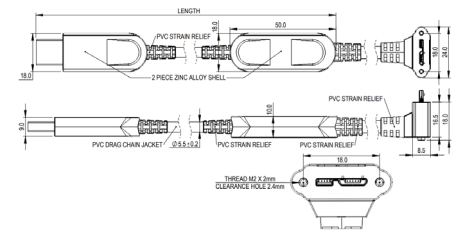
Part no.	Length	Description
AOUS4/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws

AO Drag Chain A-Micro B 90° Cable



AOUS5/XXX

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket w/ screw, right angle
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- 90-degree angle design for limited space connections
- Braided cable jacket for drag chain applications
- Up to 5Gbps



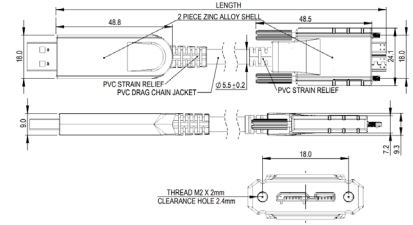
Part no.	Length	Description
AOUS5/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle
AOUS5/080	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle
AOUS5/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle
AOUS5/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle
AOUS5/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle
AOUS5/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws, right angle

AO Drag Chain A-Micro B Screw Cable



AOUS6/XXX

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket w/ screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps



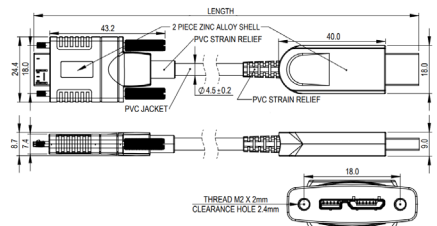
Part no.	Length	Description
AOUS6/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/008	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws

AO A-Micro B Screw Cable



AOUS7/XXX

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps



Part no.	Length	Description
AOUS7/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/080	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws

Product Configuration Table

Product	Type	Terminations	Angle	Screws	Cable Jacket	Available Lengths
AOUS1	USB	Male A to Female A	Straight	No	PVC Normal Jacket	10m, 20m, and 30m
AOUS2	USB	Male A to Male C	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS3	USB	Male A to Male C	Right angle	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS4	USB	Male A to Male C	Straight	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS5	USB	Male A to Male Micro B	Right angle	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS6	USB	Male A to Male Micro B	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS7	USB	Male A to Male Micro B	Straight	Yes	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m

Electrical	
Voltage MIN/MAX Absolute	-0.5V / 5.5V
Voltage Supply MIN/TYP/MAX	4.75V / 5.00V / 5.25V
Power Consumption	≤ 0.5W
Differential Impedance	90Ω
Performance	
Fibre Mode	Multimode

Optical	
Optical Transceiver	850nm VCSEL (Multimode)
TX Random Jitter	3ps
TX Deterministic Jitter	60ps
Total Jitter at a 10 ⁻¹² BER	100ps
RX Sensitivity MIN	-7.5dBm
AC Coupling Capacitor RXOUT	MIN 75nF, TYP 100nF, MAX 200nF

Material	
Connector Shell material	Zinc Alloy
Jacket Material	PVC

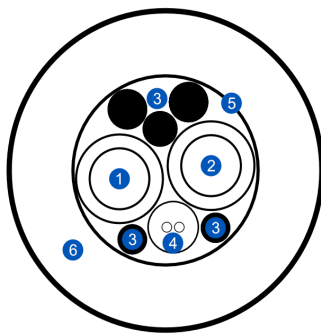
Dimensions	
Minimum bend radius	25mm

Safety	
Flammability	VW-1
Environment Protection	ROHS
Operating Temperature	0C to 50C
Storage Temperature	-20C to 85C
Humidity	10% to 85%

Individual Specifications							
Electrical	AOUS1	AOUS2	AOUS3	AOUS4	AOUS5	AOUS6	AOUS7
Connector Type Host End	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male
Connector Type Device End	USB A Female	USB C Male	USB C Male	USB C Male	USB Micro B Male	USB Micro B Male	USB Micro B Male
Number of Contacts Host End	9	9	9	9	9	9	9
Number of Contacts Device End	9	24	24	24	10	10	10
Current at bus power MIN	49.5mA	49.5mA	49.5mA	49.5mA	750mA	750mA	49.5mA
Current at bus power TYP	55 mA	55 mA	55 mA	55 mA	800mA	800mA	55mA
Current at bus power MAX	60.5 mA	60.5 mA	60.5 mA	60.5 mA	850mA	850mA	60.5mA
Material	AOUS1	AOUS2	AOUS3	AOUS4	AOUS5	AOUS6	AOUS7
Jacket Type	Normal	Braided	Normal	Normal	Braided	Braided	Normal
Cable Diameter	4.5mm	5.5mm	4.5mm	4.5mm	5.5mm	5.5mm	4.5mm
Performance	AOUS1	AOUS2	AOUS3	AOUS4	AOUS5	AOUS6	AOUS7
Max Data Rate	5Gbps	10Gbps	10Gbps	10Gbps	5Gbps	5Gbps	5Gbps
Range	50m	30m	50m	50m	30m	30m	30m
Screw Lock Dimensions	N/A	M2 X 2mm	N/A	N/A	M2 X 2mm	M2 X 2mm	M2 X 2mm
Screw Spacing	N/A	15mm	N/A	N/A	18mm	18mm	18mm

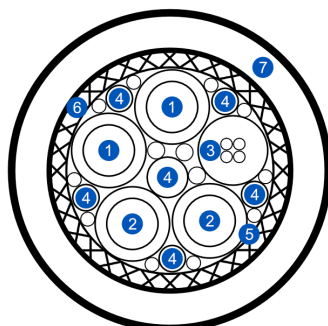
Cable construction

AOUS1, AOUS3, AOUS4, AOUS7



- 1. 18 AWG (red insulation)
- 2. 18 AWG (black insulation)
- 3. Filler
- 4. Fiber
- 5. Aluminium foil
- 6. Jacket

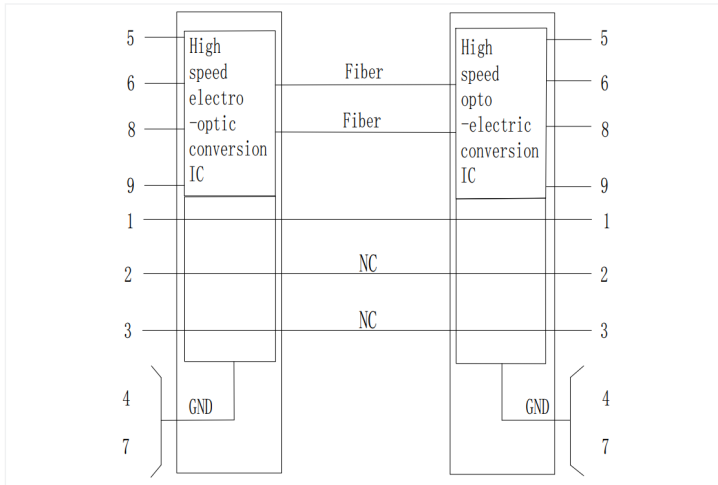
AOUS2, AOUS5, AOUS6



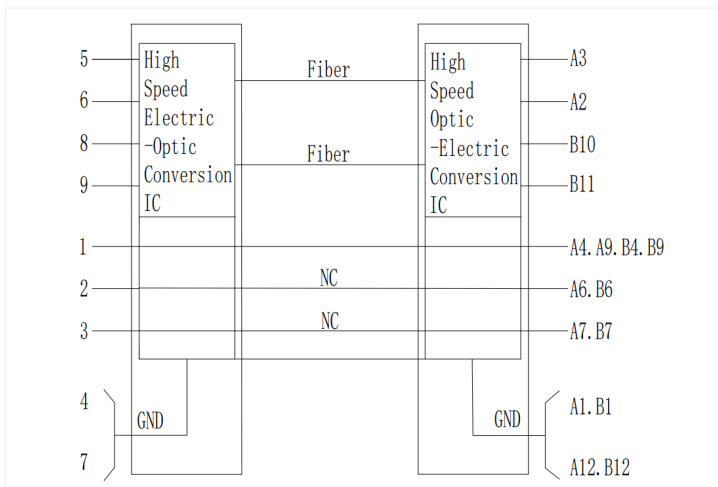
- 1. 21 AWG (red insulation)
- 2. 21 AWG (black insulation)
- 3. Fiber
- 4. Cotton
- 5. Filler
- 6. Braid
- 7. Jacket

Wiring

AOUS1, AOUS6, AOUS7



AOUS2, AOUS3, AOUS4



AOUS5

