

- ⬢ 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)*

Technical drawing of a cable assembly showing two views: a top view and a side view.

Top View Dimensions:

- Total Length: 130
- Shell Length: 40.0
- Central Section: 7.450 ± 0.2
- Strain Relief Length: 40.0

Labels:

- 2 PIECE ZINC ALLOY SHELL
- PVC CABLE JACKET
- PVC STRAIN RELIEF

Side View Dimensions:

- Cable Diameter: 5.0

Labels:

- PVC STRAIN RELIEF
- 2 PIECE ZINC ALLOY SHELL

Technical drawing of the M12-2000 cable assembly, showing side and end views with dimensions and labels.

Labels:

- 2 PIECE ZINC ALLOY SHELL
- PVC STRAIN RELIEF
- PVC DRAG CHAIN CABLE JACKET
- THREAD: M12 X 2mm
- CLEARANCE HOLE 2.4mm

Dimensions:

- Overall Length: 150.0
- Shell Length: 20.0
- Strain Relief Length: 56.5
- Drag Chain Jacket Length: 48.8
- End View Width: 15.0
- End View Hole Spacing: 10.0
- End View Hole Diameter: 8.0
- End View Clearance Hole Diameter: 2.4
- End View Hole Position: 0.55 ± 0.2

Technical drawing of a 2-piece zinc alloy shell, showing two views: a top view and a side view. The top view includes dimensions: 12.5, 18.9, 52.5, 38.0, 17.5, and 5.0. Labels include "2 PIECE ZINC ALLOY SHELL", "PVC JACKET", and "PVC STRAIN RELIEF". The side view includes dimensions: 5.0, 11.1, and 5.0. A note indicates a tolerance of 0.45 ± 0.2 for the jacket thickness.

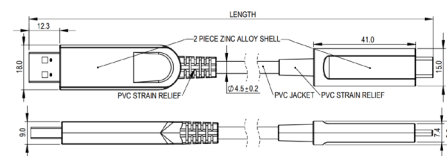
32 Circular Data Connectors

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



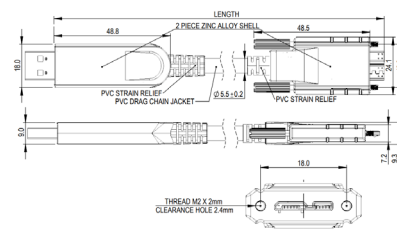
Part no.	Length	Description
AOUS4/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/015	15m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



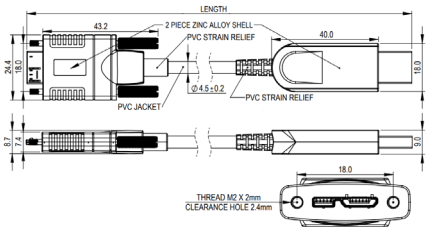
Part no.	Length	Description
AOUS6/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/008	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male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

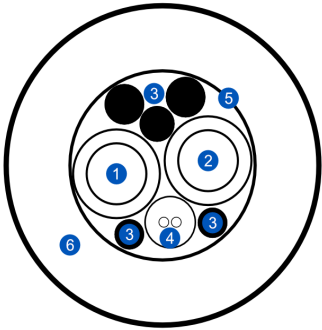
Dimensions	
Minimum bend radius	25mm

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

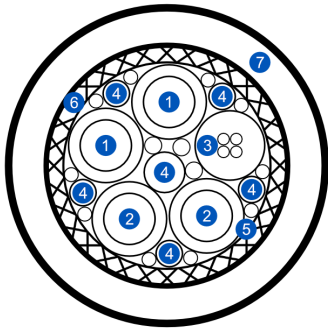
Cable construction

AOUS1, AOUS3, AOUS4, AOUS7



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

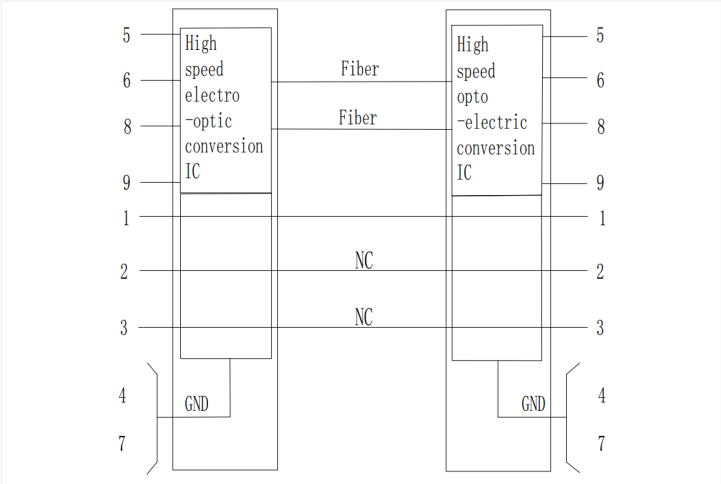
AOUS2, AOUS6



- 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

