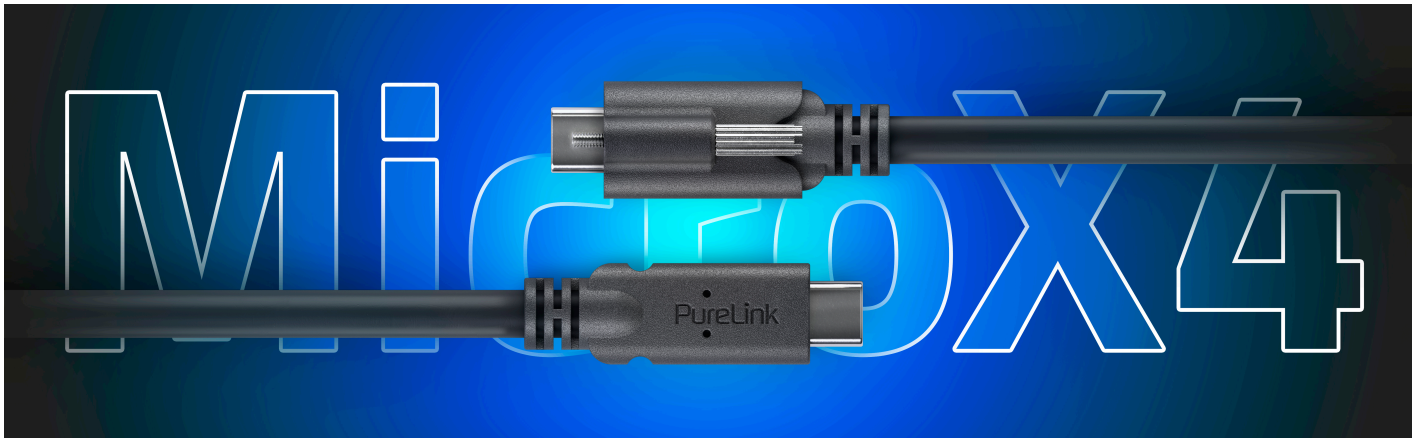


PureInstall MicroX4 - USB4 Gen2 USB-C M/F Extension Cable, Passive

PI6630 – Passive USB4 Gen2x2 USB-C Male/Female Extension Cable: Data, Video and Power Transmission
The PI6630 passive USB4 Gen2x2 extension cable utilises a micro coaxial topology with silver-plated copper conductors, supporting high-speed data, video, and power transmission in professional AV environments. This cable's fully passive construction eliminates the need for active chipsets, allowing compatibility even at lengths up to 5 metres without risking signal integrity or device conflicts, while the integrated E-marker supports USB Power Delivery up to 240W (3.00m up to 100W SPR). Typical applications include meeting rooms, control rooms, digital signage, and hybrid workspaces requiring unified signal and power delivery over extended distances.

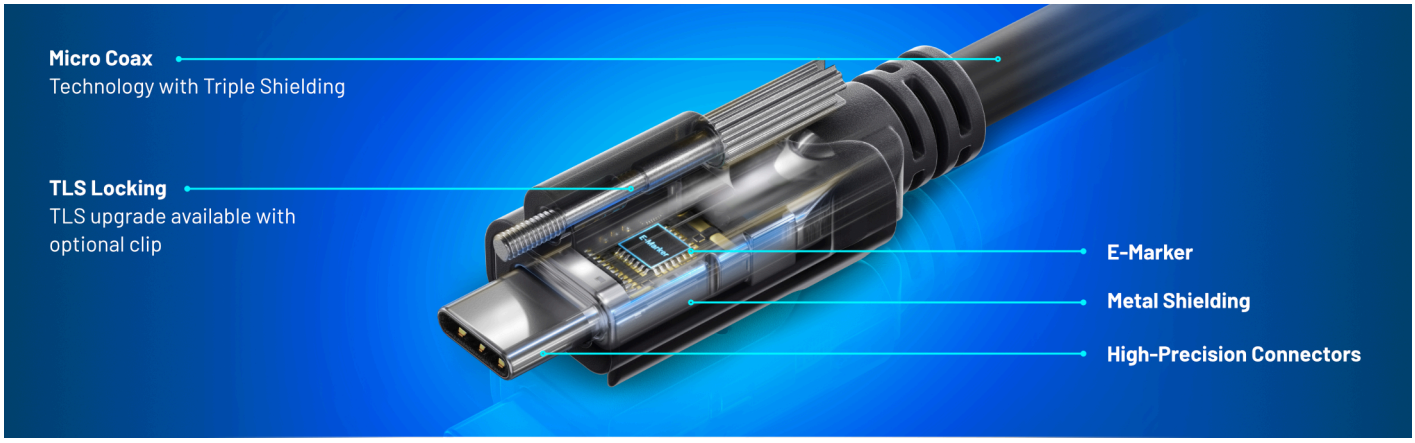
- **Passive USB4 Gen2x2 Data Path:** The cable supports USB4 Gen2x2 data rates up to 20Gbps, with passive signal transmission maintaining downward compatibility with legacy USB standards. Data throughput remains stable over lengths up to 5 metres, with reduced rates at maximum extension to preserve signal integrity.
- **Silver-Plated Copper Conductors:** Silver-plated copper (SPC) conductors minimise electrical resistance, optimising high-frequency data and video transmission. This construction supports reliable performance in electrically demanding AV installations.
- **Male to Female Extension with Locking:** USB-C male to USB-C female interface supports secure connections via TLS and ICS locking systems, offering additional mechanical stability in fixed installations or extension scenarios within AV racks or control enclosures.
- **Micro Coaxial Data Transmission:** Micro coaxial cable construction improves noise rejection and flexibility, supporting longer cable runs and reducing electromagnetic interference (EMI) in environments with high electrical noise.
- **USB Power Delivery:** Supports USB PD 3.1 up to 240W EPR (3.00m up to 100W SPR) with 48V / 5A, making it ideal for powering demanding devices such as mini-PCs or docking stations. DP Alt-Mode supports video resolutions up to 8K at 60Hz or 4K at 144Hz for high-performance display setups.

Technical Integration for Unified AV Signal Paths
The PI6630 cable addresses common AV installation challenges by combining high-speed data, video, and power transmission within a single passive cable assembly. Clever connectors and micro coaxial construction support secure, interference-resistant connections in fixed and semi-permanent AV environments, facilitating reliable integration across diverse professional applications.



Features

- Passive USB4 Gen2x2 – 20Gbps data transmission, downward compatible
- Silver-plated copper (SPC) conductors for lowest possible resistance
- USB-C male to USB-C female, compatible with TLS locking and ICS
- Micro coax data transmission for improved noise rejection, greater flexibility and range
- USB PD 240W EPR 48V / 5A (3.00m up to 100W SPR), DP Alt-Mode up to 8K 30Hz (4K 144Hz)



Specifications

Cable	
Cable standard	USB 20Gbps 240W
Cable jacket material	Polyvinyl Chloride (PVC)
Cable jacket characteristics	Soft
Cable shape	Round
Cable fire class	UL VW-1
Cable diameter (mm)	5 mm
Cable length detection	Yes
Cable shielding	Double shielded, Tripple shielded
Shield materials	Tinned copper braid, Aluminium foil + Mylar layer
Primary conductor gauge (AWG)	30
Additional cable components	Micro Coax (Data lines)
Conductor material	Silver-Plated Copper (SPC)
Minimum bending radius (fixed installation) (mm)	30 mm
Raw Cable Rated voltage	30 V

Connection	
Connector material	Copper, Nickel
Connector housing material	Polyvinyl Chloride (PVC)
Connector contacts plating	Gold-plated
Connector shielding	Yes
Connector shield material	Steel SPCC
Connector 1 standard	USB-IF
Connector 1	USB Type-C (Gen2)
Connector 1 gender	Male connector
Connector 1 form factor	Straight
Connector 1 lockable	No locking
Connector 1 pinout	22+1 (Type-C full feature)
Connector 1 dimensions (WxDxH) (mm)	12.70 mm x 37.00 mm x 6.85 mm
Connector 2 standard	USB-IF
Connector 2	USB Type-C (Gen2)
Connector 2 gender	Female connector
Connector 2 form factor	Straight
Connector 2 lockable	No locking
Connector 2 pinout	22+1 (Type-C full feature)
Connector 2 dimensions (WxDxH) (mm)	14.40 mm x 36.30 mm x 8.85 mm

Features	
Connector adapter type	USB C
Connector adapter	No

USB	
USB version	USB4 Gen 2x2
USB data rate (Gbit/s)	20 Gbit/s
Maximum resolution (USB)	7680×4320p
USB Power Delivery revision	USB PD 3.1
USB port voltage (V)	48 V
USB port current (A)	5 A
Fast charging	Yes
Vendor code	0x35F8
e-Marker	No

General Information	
Operating temperature (T-T)(°C)	from 0 °C to 60 °C
Certification	RoHS