CABLE ASSEMBLIES

USB-C Cables with Single- and Dual-Screwlock

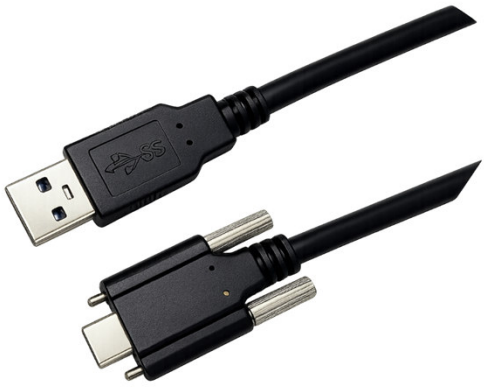
Securely connected. Precisely manufactured. Reliable in use.—even under demanding conditions

Our USB-C cables with **single-screwlock** or **dual-screwlock** ensure a consistently stable connection—even in the face of vibrations, frequent plugging and unplugging, and demanding industrial applications. The mechanical locking mechanism prevents accidental disconnection and enhances the operational reliability of your USB connection.

Manufacturing and Quality Features

- USB-C connectors with precise, exact-fit manufacturing
- Choice of **single-screwlock** or **dual-screwlock**
- Robust screw lock for a secure hold
- High-quality contacts for reliable signal transmission
- Optimized strain relief to protect against cable breakage
- Robust cable jacket for industrial use
- Clean and durable over molding of the connectors
- Controlled cable lengths and consistent manufacturing quality
- Quality-tested mating and locking functions
- Versions for stable data and charging connections

Optional custom lengths, labeling, and assembly



Standards and Connector Faces

- Standard: USB Type-C Cable and Connector Specification.
- IEC Reference: IEC 62680-1-3.
- Supplements the Type-C base specification with mechanical requirements for screw locks.
- Connector face: reversible 24-pin Type-C connector face, symmetrically pluggable.
- Typically features 24 contacts for Full-Featured Type-C.

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In industrial applications, medical technology, automation, and professional AV setups, a loose USB-C connection is often more than just a nuisance:
It can lead to data loss, production downtime, or costly troubleshooting. USB-C cables with Screwlock and Duallock provide a standardized, mechanically secured connection—compatible with the USB-IF specification for lockable USB Type-C connectors.

What is the difference between Screwlock and Duallock?

Screwlock (Single Screw):
- A side-mounted M2 screw mechanism secures the USB-C connector in the receptacle.

Ideal for applications with moderate vibration exposure and limited installation space.

Duallock (Dual Screw):
- Two side screws (left/right) significantly increase mechanical security.

Recommended for high vibration exposure, frequent mating cycles, or when the connection must remain “fail-safe.”

Both variants are reversible:
Without screws, the connectors function like standard USB-C connectors and fit into standard sockets.

Secure Connection
- M2 screw mechanism (single/dual) prevents accidental disconnection due to vibration and movement

High Speed & Power:
- Up to 20 Gbps (USB 3.2 Gen 2) and up to 100 W (20 V / 5 A) for modern industrial and AV devices

Rugged in Use:
- Reinforced strain relief, high-quality materials, and optimized mating cycles for harsh environments

Flexible Integration:
- Single- or dual-screw, various lengths - tailored to your system design.

Typical Applications:
- Automation, test benches, medical technology, professional AV installations, edge computing, robotics, automotive engineering.

Technical Highlights (Sample Configuration)
- Connectors: USB-C Male (Screwlock/Duallock)
- Data Rate: up to 10 Gbps (USB 3.2 Gen 2)
- Power: up to 20 V / 5 A (100 W PD), optionally with
- E-marker
- Screw type: M2 × 0.4, hole spacing 15 mm
- Mating cycles: designed for industrial use
- Lengths: 1 / 2 m (others available upon request)

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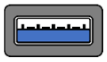
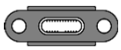
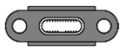
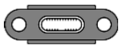
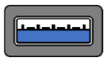
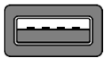
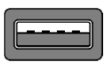
Side A	Side B	Transmission-speed	Power	Length [mm]	Ordercode
		USB3.2 Gen2x1 20G	5A/20V	1000	A-USB32CS-CS-100
				2000	A-USB32CS-CS-200
		USB3.2 Gen2x1 20G	5A/20V	1000	A-USB32CS-CD-100
				2000	A-USB32CS-CD-200
		USB3.2 Gen2x1 20G	5A/20V	1000	A-USB32CS-C-100
				2000	A-USB32CS-C-200
		USB3.1 5G	3A/20V	1000	A-USB32CS-A-100
				2000	A-USB32CS-A-200
		USB3.2 Gen2x1 20G	5A/20V	1000	A-USB32CD-CD-100
				2000	A-USB32CD-CD-200
		USB3.2 Gen2x1 20G	5A/20V	1000	A-USB32CD-C-100
				2000	A-USB32CD-C-200
		USB3.1 5G	3A/20V	1000	A-USB32CD-A-100
				2000	A-USB32CD-A-200

Side A	Side B	Transmission-speed	Power	Length [mm]	Ordercode
		USB2.0 480M	3A/5A	1000	A-USB20CS-CS-100A
				2000	A-USB20CS-CS-200A
		USB2.0 480M	3A/5A	1000	A-USB20CS-A-100A
				2000	A-USB20CS-A-200A
		USB2.0 480M	3A/5A	1000	A-USB20CD-CD-100A
				2000	A-USB20CD-CD-200A
		USB2.0 480M	3A/5A	1000	A-USB20CD-A-100A
				2000	A-USB20CD-A-200A

ASSMANN WSW components

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