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Connecting Differently™

THUNDERBOLT™ 5 PASSIVE CABLE
(3.28 FEET / 1 METER)

CB-T5M1 USER MANUAL

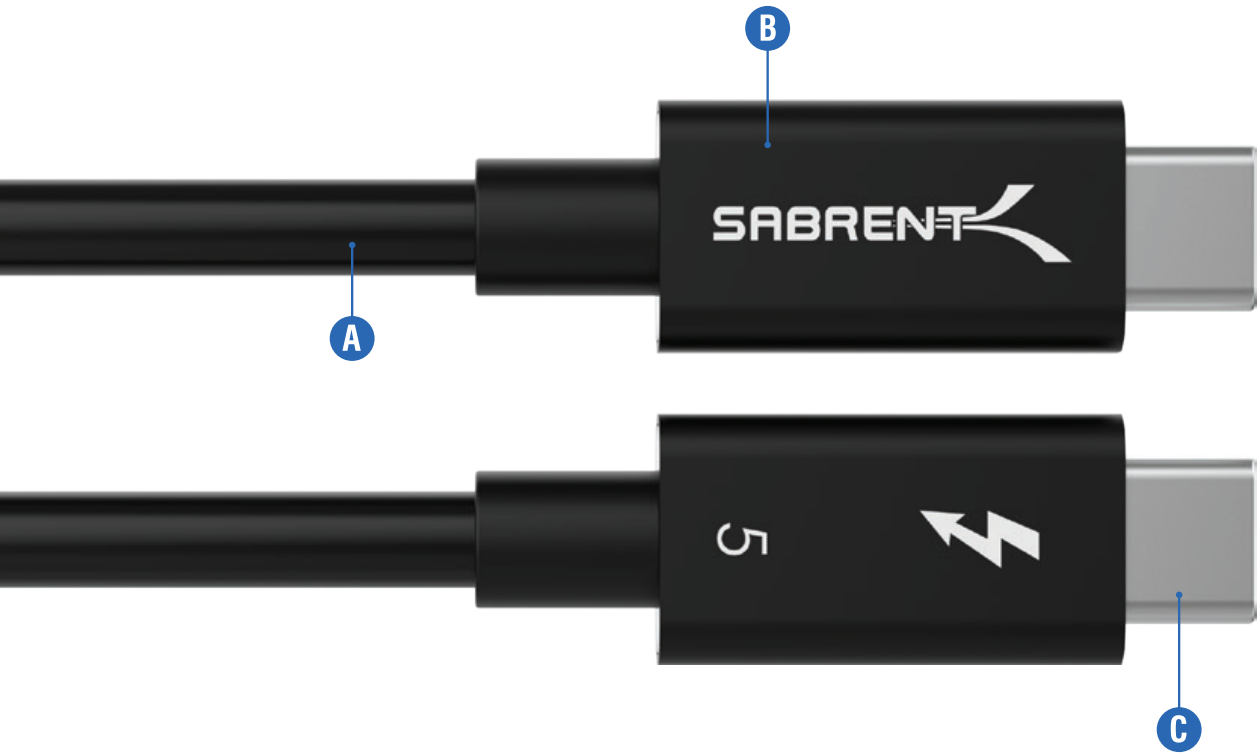
FEATURES

- Certified USB Type-C Thunderbolt™ 5 cable for maximum performance and reliability
- Power delivery current up to 5A with USB Power Delivery (PD 3.1) support at 5V ~ 48V
  - Extended Power Range (EPR) for PD up to 240W
- Supports full and half duplex transmission up to 80/120Gbps (Thunderbolt™5 Bandwidth Boost)
- Compatible with USB4 and backward compatible with Thunderbolt™ 3/4, USB 3.2/2.0, single or dual lane
- DP2.1, Alternate Mode (MFDP), PCIe support for 4-lane DisplayPort with daisy-chaining

PACKAGE CONTENTS

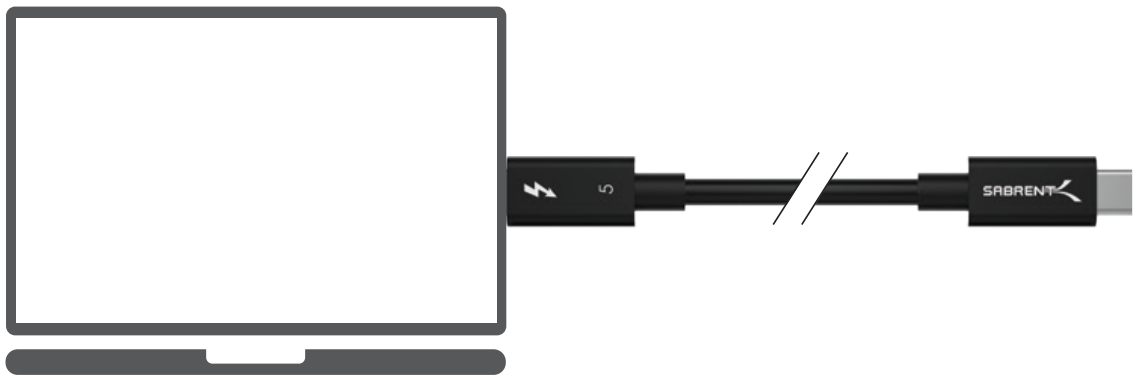
- Passive Thunderbolt™ 5 Cable

PRODUCT OVERVIEW

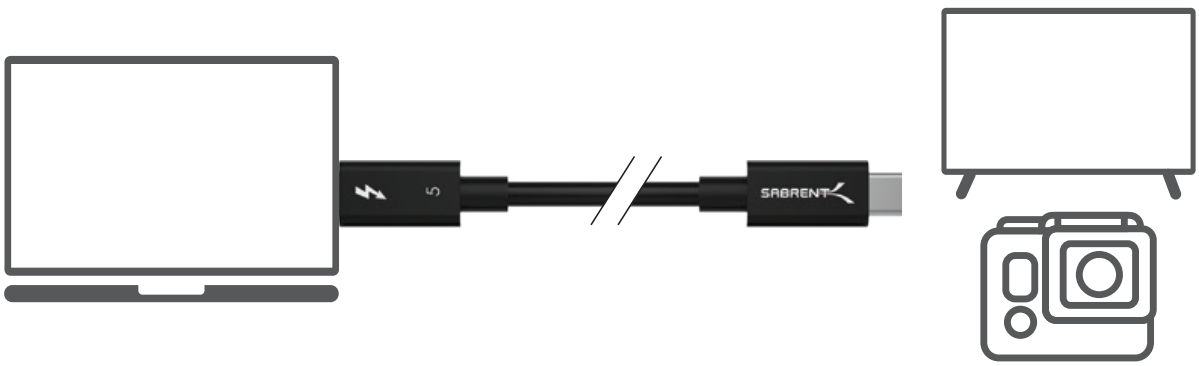


A. Thin profile cable
B. Durable plug jacket
C. Flippable USB Type-C interface

GETTING STARTED



Step 1. Plug one end of the Thunderbolt™ cable into the desired host device.



Step 2. Plug the other/free end of the Thunderbolt™ cable into the desired accessory, monitor, or other device.

Step 3. Ensure the devices are communicating with intended speeds and/or features.

PERFORMANCE TABLE

Connection	Max Performance
Thunderbolt™ 5	80Gbps 120Gbps (Bandwidth Boost)
Thunderbolt™ 3/4	40Gbps
USB4 2.0	80Gbps 120Gbps (Asymmetric)
USB4	40Gbps
USB 3.2 Gen 2x2	20Gbps
USB 3.2 Gen 2x1	10Gbps
USB 3.2 Gen 1x1	5Gbps
USB 2.0	480Mbps

FREQUENTLY ASKED QUESTIONS

Q. What is the expected maximum performance of this cable?

A. Transmission speeds are dependent on the host device as well as the accessory, monitor, or attached device, with other factors such as drivers or operating system potentially impacting performance. Theoretical maximums range from 480Mbps (USB 2.0) to 120Gbps (Thunderbolt™5 with Bandwidth Boost or USB4 2.0 Asymmetric Mode). Please refer to the performance table above for more details.

Q. How do the 120Gbps modes work?

A. The Thunderbolt™ Bandwidth Boost mode refers to a uni-directional mode with more bandwidth for cutting-edge resolutions, refresh rates, and more. An asymmetric mode for supported USB4 2.0 devices can also manage up to 120Gbps for similar applications with a 1/3 (~40Gbps per) pair configuration.

Q. What features are supported by this cable?

A. This cable supports Multi-Function DisplayPort (MFDP) features such as Alternate Mode for sending video over a supported USB Type-C connection. This requires hardware support and output performance is also determined by hardware and potentially software configuration. Certain features such as extended mode with multiple monitors may require explicit host support for Multi-Stream Transport (MST). This cable also supports power delivery up to 5A (USB PD 3.1), half and full duplex modes, single and dual channel USB, PCIe mode, and dual-protocol support for daisy-chaining Thunderbolt™ and USB4 devices.

Q. What are the supported operating conditions?

A. The cable may be stored between -20°C and 85°C ambient temperature with the ideal operating range being between 0°C (freezing) and 50°C. When using the cable, avoid unnecessary wear and tear by mitigating bends and pulling/weight at either or both ends. The USB Type-C interface at each end is flippable and does not require orientation, however if using a Type-A adapter - generally for USB 3.2 Gen 1x1 (5Gbps) or 2x1 (10Gbps) - there may be additional limitations.

FOR HELP, COMMENTS, QUESTIONS OR CONCERNS
PLEASE CONTACT OUR TECH SUPPORT TEAM VIA OUR WEBSITE
WWW.SABRENT.COM