

USB-C COMPARISON CHART

In order to help users navigate their way around the different cables available today, we have created the '5-star' criteria system to rate and classify cables in line with the 5 most crucial operational aspects. On this page, you can find a short explanation of these criteria as well as what the corresponding star levels mean for each, and further on you can find our Comparison Chart including a wide range of cables and how they performed during our tests against these 5 criteria.

5 Criteria 5 Stars						
	4K 60FPS Video and Audio 4-Lane DisplayPort Alt mode	Mouse, Keyboard, Speakerphone, Thumb Drive and Webcam USB 2.0 480 Mbps "High Speed"	4K Webcam, SSD storage USB 3 Gen1 5 Gbps "SuperSpeed"	Fast Charging of Laptops, Tablets and Phones 60W / 3 A charging and eMarker	Convenient to use and to install Connector dimensions according to standard; No bulky repeaters along the cable	
★	<ul style="list-style-type: none"> Up to 4K60 (4-Lane DP) 	<ul style="list-style-type: none"> Stable with all host 	<ul style="list-style-type: none"> Stable with all hosts All wires are present 	<ul style="list-style-type: none"> At least 60 W PD support AND Proper eMarker 	<ul style="list-style-type: none"> Convenient to use and to install (No design flaws) 	
★	<ul style="list-style-type: none"> Up to 4K30 (2-Lane DP) 	<ul style="list-style-type: none"> Unstable with some hosts 	<ul style="list-style-type: none"> Unstable with some hosts 	<ul style="list-style-type: none"> PD supports less than 60W OR Missing eMarker 	<ul style="list-style-type: none"> At least one design flaw 	
★	<ul style="list-style-type: none"> No support 		<ul style="list-style-type: none"> No support Missing wires 	<ul style="list-style-type: none"> No support Missing wires 	<ul style="list-style-type: none"> No PD support No eMarker 	<ul style="list-style-type: none"> Multiple design flaws

Recommended Cables for Taurus UCX Products

(USB-C to USB-C)

	Length	Category	Most Important					Least Important		Comments	Rating
			4K60 Video	USB 2.0	USB 3.X	Charging + eMarker	Convenience				
Recommended for Taurus UCX	Lightware CAB-USBC-T100A	1m	Copper	★	★	★	★	★		★★★★★	
	Sommer HI-U4CC-0100	1m	Copper	★	★	★	★	★		★★★★★	
	Lightware CAB-USBC-T200C	2m	Copper	★	★	★	★	★		★★★★★	
	Apple Thunderbolt 4 Pro	1,8m/3m	Active Copper	★	★	★	★	★		★★★★★	
	Apple Thunderbolt 3 Pro	2m	Active Copper	★	★	★	★	★		★★★★★	
	TrippLite U420-006-5A	1,8 m	Copper	★	★	★	★	★	Rigid cable	★★★★★	
	Lightware CAB-USBC-T200A/T300A	2m/3m	Copper	★	★	★	★	★	Only 60W charging power supported	★★★★★	
	Lightware CAB-USBC-T400B/500B	4m/5m	Copper (Microcoax)	★	★	★	★	★	Only 60W charging power supported	★★★★★	
	Atlona AT-LC-UC2UC-2M	2m	Copper	★	★	★	★	★	Only 60W charging power supported	★★★★★	
	Freeport 26-715-06 (Extron)	1,8m	Copper	★	★	★	★	★	Only 60W charging power supported	★★★★★	
	Delock 83668	2m	Copper	★	★	★	★	★	Only 60W charging power supported; Rigid cable	★★★★★	
	Vivolink PROUSBCMM3	3m	Copper	★	★	★	★	★	Only 60W charging power supported	★★★★★	
	CableWholesale 10U4-32006	1,8m	Copper	★	★	★	★	★	Only 30W charging power supported	★★★★★	
	Comprehensive USB3-CC-10SP	3m	Copper	★	★	★	★	★	Only 15W charging power supported	★★★★★	
	CableWholesale 10U4-32010	3m	Copper	★	★	★	★	★	Only 30W charging power supported	★★★★★	
	FSR LP-TBRT-5-USBC-USBC	5m	Copper	★	★	★	★	★	Only 30W charging power supported	★★★★★	
	Kramer CA-U32/FF-10	3m	Copper	★	★	★	★	★	Only 60W charging power supported; Rigid cable	★★★★★	
	Lightware CAB-USBC-AOC800K/AOC1000K	8m/10m	Active Optical	★	★	★	★	★	Only 4K30 video (2-lane DP Alt mode) supported; 2 Tier added at the USB2.0 topology; Active optical cable with specific direction;	★★★★★	
TTL-Taiwan 20105	2m	Copper	★	★	★	★	★	eMarker chip cannot be read; bigger cable head	★★★★★		

Recommended Cables for Taurus UCX Products (USB-C to USB-C)

		Most Important			Least Important					
	Length	Category	4K60 Video	USB 2.0	USB 3.X	Charging + eMarker	Convenience	Comments	Rating	
At your own risk	Vivolink PROUSBCMM4	4m	Copper	★	★	★	★	★	USB2.0 lines does not work with some tested laptops*; only 60W charging power supported	★★★★★
	Bizlink KSC001R-16X	4m	Active Copper	★	★	★	★	★	Only 4K30 video (2-lane DP Alt mode) supported; only 60W charging power supported; Active copper cable with specific direction;	★★★★★
	Extron USBC Pro/30	9,1m	Active Optical	★	★	★	★	★	Only 4K30 video (2-lane DP Alt mode) supported; 2 Tier added at the USB2.0 topology, not recommended for complex USB systems	★★★★★
	Tether Tools CUC15	4,6m	Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; only 30W charging power supported	★★★★
	Vivolink PROUSBCMM5	5m	Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; only 30W charging power supported	★★★★
	M-CAB 2200046	3m	Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; Missing E-marker	★★★★
	Freeport KFCB201208	4,5m	Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; only 30W charging power supported	★★★★
	Newnex U4SLC01C01-050	5m	Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; Missing E-marker	★★★★
	Kramer CLS-AOCU32/FF-35	10,7m	Active Optical	★	★	★	★	★	Only 4K30 video (2-lane DP Alt mode) supported; USB2.0 lines does not work with some tested laptops*; only 30W charging power supported;	★★★★
	Purelink FX-I600-010	10m	Active Optical	★	★	★	★	★	Only 4K30 video (2-lane DP Alt mode) supported; 2 Tier added at the USB2.0 topology, not recommended for complex USB systems; only 30W charging power supported	★★★★
Cosemi 175USH31CCMM015M001	15m	Active Optical	★	★	★	★	★	DP Alt mode only (no USB3 data); only 30W charging power supported	★★★	

*Tested hosts: Lenovo ThinkPad X280 Laptop; Dell G5 5587 Laptop. **These results were experienced with Lightware Taurus UCX product, your experience may vary.**

Recommended Cables for Taurus UCX Products

(USB-C to USB-C)

	Length	Category	Most Important					Least Important		Comments	Rating
			4K60 Video	USB 2.0	USB 3.X	Charging + eMarker	Convenience				
Not recommended for Taurus UCX	iiglo II-USBAMUSBC30-B300	3m	Copper	★	★	★	★	★	USB3 lines does not work with some tested laptops*; only 30W charging power supported; Failed Total phase "Eye pattern" instrument test	★★★★★	
	Club3D CAC-1535	5 m	Active Copper	★	★	★	★	★	4 lane DP Alt mode only (no USB3 and no USB2.0 data)	★★★	
	HP 9JH45AA	5 m	Active Copper	★	★	★	★	★	4 lane DP Alt mode only (no USB3 data); USB2.0 lines does not work with some tested laptops*; only 15W charging power supported	★★★	
	Cable Matters 201034-BLK-5m	5 m	Active Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; only 30W charging power supported; Amplifier in the middle	★★★	
	Newnex ULK10G-CC-8M	8 m	Active Copper	★	★	★	★	★	USB2.0 and USB3 lines does not work with some tested laptops*; only 30W charging power supported; Repeater in the middle, and quite rigid	★★★	
	SmartAVLink SCVC-3100-20	20 m	Active Optical	★	★	★	★	★	4 lane DP Alt mode only (no USB3 and no USB2.0 data); No charging power	★	
	Club3D CAC-1589	20 m	Active Optical	★	★	★	★	★	4 lane DP Alt mode only (no USB3 and no USB2.0 data); No charging power	★	
No Video with Taurus UCX	SmartAVLink KUCC-3100-020	2 m	Copper	★	★	★	★	★	No Video and Audio due to missing SuperSpeed wires; only 30W charging power supported	★★★★	
	Apple USB-C charge cable	1 m / 2m	Copper	★	★	★	★	★	No Video and Audio due to missing SuperSpeed wires; For charging only	★★★★	
	Belkin Thunderbolt 3	2m	Active Copper	★	★	★	★	★	No DP Alt mode and no USB3 data supported, therefore video and audio signals won't be transmitted for Taurus UCX;	★★★★	
	Lanberg CA-CMCM-31CU-0030-BK	3m	Copper	★	★	★	★	★	No USB3 lines for video; only 15W charging power supported; USB2.0 lines does not work with some tested laptops*	★★★	

Cables that don't support video transmission are **not** 'host cables' by Lightware's definition!

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