



BIT MAXX

## USB3 LONG DISTANCE CABLES

CEI's USB3 BitMaxx active Plug & Play cable, supporting full 5 gig USB3 throughput and power delivery up to 20 meters with full USB2 backward compatibility. Assembly is NOT to be used in conjunction with other cables.

PART NUMBER REFERENCE: **MVB3 – X – X – X – X XM**

### Select Connector Type: End "A"

- Type A, Friction Fit = 1
- Type A, w/Thumbscrews = 2

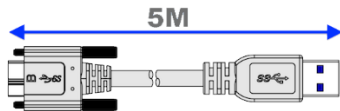
### Select Cable Type:

- Extended Distance = 1
- \*Available lengths: 10, 15 & 20 Meters*
- Robotic / Drag Chain = 2
- \*Available length: 10Meters*

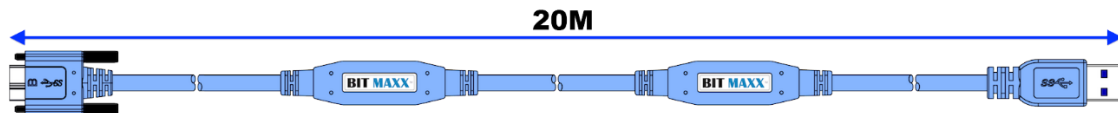
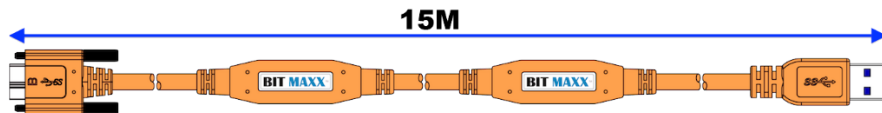
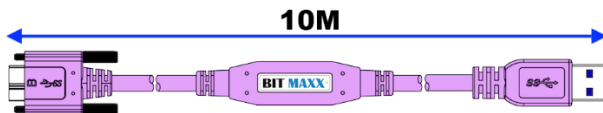
### Select Connector Type: End "B"

- Type A, Friction Fit = 1
- Type A, w/Thumbscrews = 2
- Micro B, Straight w/Thumbscrews = 3
- Micro B, R/A Up w/Recessed Screws = 4
- Micro B, R/A Down w/Recessed Screws = 5
- Micro B, Exit Right w/Recessed Screws = 6
- Micro B, Exit Left w/Recessed Screws = 7
- Type B, w/Thumbscrews = 8
- Type B, Friction Fit = 9

### \*Length in Meters: 10, 15, 15



Standard USB3 Vision Cables  
Maximum Length is 5 Meters



**CEI BitMaxx™**  
Extended Distance  
USB3 Vision Cables  
Super Speed USB 3.0  
Available lengths:  
**10M, 15M, AND 20M**

Temp 7-31-19

BITMAXX

# USB3 LONG DISTANCE CABLES



1

Type A  
Friction Fit



2

Type A  
W/Thumbscrews



3

Micro B, Straight  
W/Thumbscrews



4

Micro B, R/A Up  
W/Recessed Screws



5

Micro B, R/A Down  
W/Recessed Screws



6

Micro B, Exit Right  
W/Recessed Screws



7

Micro B, Exit Left  
W/Recessed Screws



8

Type B  
W/Thumbscrews



9

Type B  
Friction Fit

**Additional Dimensional Information:**  
For additional information regarding the physical dimensions of our connector profiles, please visit our Web-Site: [www.Componentsexpress.com](http://www.Componentsexpress.com) or ask one our sales associates and we will be happy to assist.

Temp 7-31-19

# USB 3.0 BitMaxx Cable Type #: 1

SPECIFICATION:		(1P*24#-DAM)2C-1P*26#-2C*18#-F-AL-B / UL2725			
ITEM		SPECIFICATION			
CONDUCTOR	AWG	24AWG	26AWG	18AWG	JACKET
	MATERIAL	TINNED COPPER	TINNED COPPER	TINNED COPPER	BRAID COPPER
	COND.SIZE	7/0.20±0.008MM	7/0.16±0.008MM	43/0.16±0.008MM	MYLAR
	MIN.AVG.THICK	0.35MM	0.23MM	0.23MM	FILLER
INSULATION	MATERIAL	FM-PE+SKIN	HD-PE	PVC	CONDUCTOR
	O. D	1.35±0.10MM	1.00±0.10MM	1.80±0.10MM	INSULATION
	N.O.	IP*2	IP	2C	AL.MYLAR
DRAIN	AWG	24AWG	/	/	DRAIN
	MATERIAL	TINNED COPPER	/	/	
	SIZE	7/0.20±0.008MM	/	/	
Face Inside	COVERAGE	100%	/	/	
AL.MYLAR	OVERLAP	25% MIN	/	/	
Hot-MYLAR	COVERAGE	100%	/	/	
	OVERLAP	25%MIN	/	/	
	N.O.	(1P+DAM)2C	IP	2C	
Face Outside	COVERAGE	100%			
AL.MYLAR	OVERLAP	25% MIN			
DRAIN	MATERIAL	/			
	SIZE	/			
BRAID	MATERIAL	TINNED COPPER			
COPPER	SIZE	24*9/0.10±0.008MM (COVERAGE :85% MIN)			
	MIN.AVG.THICK	0.50MM			
JACKET	MATERIAL	PVC			
	COLOUR	BLACK			
	O. D	7.50±0.20MM			

ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF JACKET	
<b>USB2.0 UTP</b>	<b>USB3.0 STP*2P</b>	1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min	
1. Rating Temperature: 80°C ; VOLTAGE: 30V	1. Differential Impedance: 90±7Ω	2. Elongation: Unaged: 100% min Aged: 65%	
2. Conductor Resistance: at 20°C max	2. Intra-Pair Skew : 15ps /m	3. Heat shock test: NO CRACKING	
24AWG: 94.2Ω/km; 18AWG: 23.2Ω/km	3. Attenuation/Insertion Loss:	4. Cold bend test: NO CRACKING	
3. Insulation Resistance: 10MΩ/km min at 20°C dc 500V	1.5dB/1.5M@0.1GHz	5. Deformation test: MAX 50%	
4. Propagation Delay Skew: 100ps (Full-/High-speed only)	5.0dB/1.5M@1.25GHz	6. Flame test: PASS VW-1	
5. Time Delay: 5.2ns/m(max.)	7.5dB/1.5M@2.5GHz		
6. Impedance: 90±1.5%Ω	25dB/1.5M@7.5GHz		
7. Attenuation(Full/High-speed only):	Differential to common mode:		
	20dB/cable @ 0.1~7.5GHz		
	5. NEXT:		
	32dB@0.1GHz		
	32dB@2.5GHz		
	23dB@3.0GHz		
	23dB@7.5GHz		

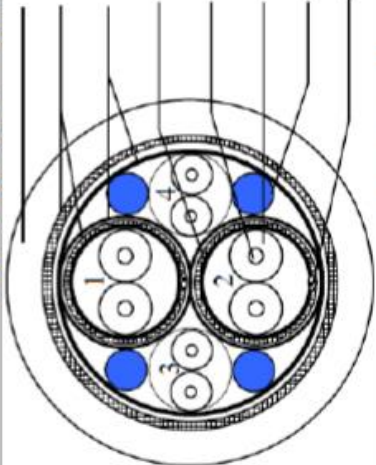

CONSTRUCTION D.W.G	
	<p><b>COLOUR CODE:</b></p> <p>(1P*24#+DAM)2C:</p> <p>1. YELLOW*BLUE</p> <p>2. ORANGE*PURPLE</p> <p>IP*26#: GREEN *WHITE</p> <p>2C*18#: 1.BLACK 2.RED</p>

		<b>COMPONENTS EXPRESS, INC.</b> 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517	
(E1013)		<b>APPROVED</b>	<b>CUSTOMER</b> 奕樹
		<b>CHECKED</b>	<b>REV</b> A / 1
		<b>DRAWING</b> CHEN	<b>DATE</b> 2018/5/17



# USB 3.0 BitMaxx Cable Type #: 2

SPECIFICATION:		(1P*26#+ADBP)2C+1P*26#+1P*24#+FPB	
ITEM		SPECIFICATION	
CONDUCTOR	AWG	26AWG	24AWG
	MATERIAL	TINNED COPPER	TINNED COPPER
	COND.SIZE	19/0.10±0.008 mm	41/0.08±0.008 mm
INSULATION	MIN.AVG THICK	0.23 mm	0.23 mm
	MATERIAL	FM-PE+SKN	HD-PE
	O. D	1.20±0.10 mm	0.95±0.05 mm
	N.O.	1P*2	1P
Face Outside	COVERAGE	100%	/
AL.MYLAR	OVERLAP	25% MIN	/
DRAIN	MATERIAL	TINNED COPPER	/
	SIZE	19/0.08±0.008 mm	/
BRAID	MATERIAL	TINNED COPPER	/
COPPER	SIZE	16*6/0.08±0.008MM	/
	COVERAGE	90%MIN	/
Foamed PP film	COVERAGE	100%	/
	OVERLAP	25%MIN	/
	N.O.	(1P*ADBP)2C	1P
Foamed PP film	COVERAGE	100%	/
	OVERLAP	25% MIN	/
BRAID	MATERIAL	TINNED COPPER	/
COPPER	SIZE	16*10/0.08±0.008MM (Coverage : 85%MIN)	/
	MIN.AVG.THICK	0.76 mm	/
JACKET	MATERIAL	MIXING PVC	/
	COLOUR	PURPLE	/
	O. D	7.00 ± 0.30 mm	/
		PHYSICAL PROPERTIES OF JACKET	
ELECTRICAL CHARACTERISTICS		USB3.0 STP*2P	
1. Rating Temperature: 80°C ; VOLTAGE: 30V		1. Differential Impedance:90±7Ω	
2. Conductor Resistance: at 20°C max		2. Intra-Pair Skew : 15ps/m	
26AWG: 150Ω/km;		3. Attenuation/Insertion Loss:	
3. Insulation Resistance: 10MΩ/km min at 20°C dc 500V		1.5dB@0.1GHz	
4. Propagation Delay Skew:100ps (Full/High-speed only)		5.0dB@1.25GHz	
5. Time Delay: 5.2ns/m(max.)		7.5dB@2.5GHz	
6. Impedance: 90±15%Ω		25dB@7.5GHz	
7. Attenuation(Full/High-speed only):		4 Differential to common mode:	
F/MHz	Attenuation(dB)	F(MHz)	Attenuation(dB)
0.064	0.08	24	0.95
0.256	0.11	48	1.35
0.512	0.13	96	1.90
0.772	0.15	200	3.20
1	0.20	400	5.80
4	0.39		
8	0.57		
12	0.76		
CONSTRUCTION D.W.G			
COLOUR CODE:		(1P*26#+ADBP)*2C: 1. YELLOW * BLUE 2. ORANGE * PURPLE  1P*26#: 1.GREEN *WHITE  1P*24#: 1. BLACK RED	
APPROVED		CUSTOMER	
CHECKED		REV	
DRAWING		DATE	
		2018/11/13	
		<b>COMPONENTS EXPRESS, INC.</b> 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517	
YS2018111302			