



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 = 2A
- Type A, w/Single Thumbscrew = 2B

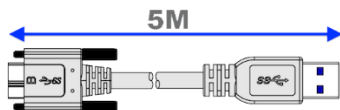
Select Cable Type:

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

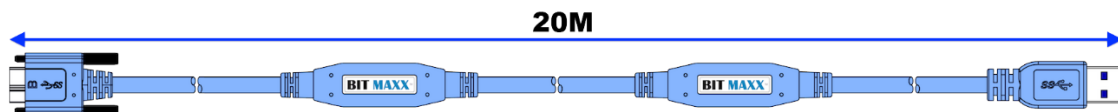
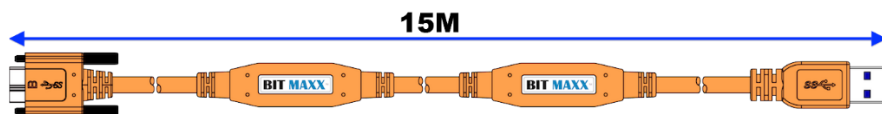
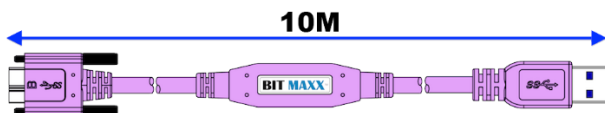
Select Connector Type: End "B"

- 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, 20



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 7-8-20

BITMAXX

USB3 LONG DISTANCE CABLES



1



Type A
Friction Fit

2A



Type A
W/Thumbscrews

2B



Type A
W/Thumbscrew

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

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

Additional Dimensional Information:

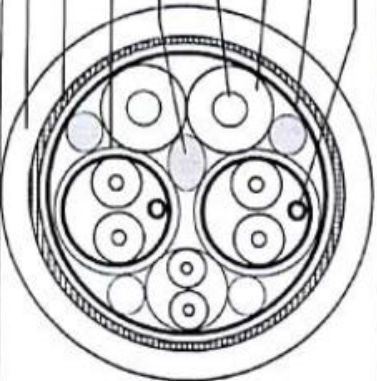
For additional information regarding the physical dimensions of our connector profiles, please visit our Web-Site: www.ComponentsExpress.com or ask one our sales associates and we will be happy to assist.

Temp 7-8-20

USB 3.0 BitMaxx Cable Type #: 1

SPECIFICATION:		(1P*24#+DAM)2C+1P*26#+2C*18#+F+AL+B/UL2725	
ITEM	SPECIFICATION		
CONDUCTOR	24AWG	26AWG	18AWG
MATERIAL	TINNED COPPER	TINNED COPPER	TINNED COPPER
COND.SIZE	7/0.20±0.008MM	7/0.16±0.008MM	43/0.16±0.008MM
MIN.AVG.THICK	0.35MM	0.23MM	0.23MM
MATERIAL	FM-PE+SKIN	HD-PE	PVC
O.D	1.35±0.10MM	1.00±0.10MM	1.80±0.10MM
N.O.	1P*2	1P	2C
AWG	24AWG	/	/
MATERIAL	TINNED COPPER	/	/
SIZE	7/0.20±0.008MM	/	/
COVERAGE	100%	/	/
OVERLAP	25% MIN	/	/
COVERAGE	100%	/	/
OVERLAP	25%MIN	/	/
N.O.	(1P+DAM)2C	1P	2C
Face Outside	COVERAGE	100%	
AL..MYLAR	OVERLAP	25% MIN	
Hot-MYLAR	COVERAGE	100%	
OVERLAP	COVERAGE	85% (MIN)	
SIZE	0.50MM		
MATERIAL	PVC		
COLOUR	BLACK		
O.D	7.50±0.20MM		
ELECTRICAL CHARACTERISTICS			
USB2.0 UTP		USB3.0 STP*2P	
1. Rating Temperature: 80°C.; VOLTAGE: 30V 2. Conductor Resistance: at 20°C max 24AWG: 94.2Ω/Km; 18AWG: 23.2Ω/Km 3. Insulation Resistance: 10MΩ/Km min at 20°C dc 500V 4. Propagation Delay Skew: 100ps (Full-/High-speed only) 5. Time Delay: 5.2ns/m(max.) 6. Impedance: 90±15%Ω 7. Attenuation(Full/High-speed only):			
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		
PHYSICAL PROPERTIES OF JACKET			
1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min 2. Elongation: Unaged: 100% min Aged: 65% 3. Heat shock test: NO CRACKING 4. Cold bend test: NO CRACKING 5. Deformation test: MAX 50% 6. Flame test: PASS VW-1			

CONSTRUCTION D.W.G



COLOUR CODE:

- (1P*24#+DAM)2C:
 - 1. YELLOW*BLUE
 - 2. ORANGE*PURPLE
- 1P*26#: GREEN *WHITE
- 2C*18#: 1.BLACK 2.RED

MINIMUM BEND RADIUS: 10X O.D.



COMPONENTS EXPRESS, INC.
 10330 Argonne Woods Drive, Ste100
 Woodridge, IL 60517

(E1013), 8-12-19

APPROVED	CUSTOMER
CHECKED	REV
DRAWING	CHEN
	DATE
	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	26AWG	24AWG	
	MATERIAL	TINNED COPPER	TINNED COPPER	TINNED COPPER	BRAID COPPER
	COND.SIZE	19/0.10±0.008 mm	19/0.10±0.008 mm	41/0.08±0.008 mm	Foamed PP film
	MIN.AVG.THICK	0.23 mm	0.23 mm	0.23 mm	AL.FOIL
INSULATION	MATERIAL	FM-PE+SKIN	HD-PE	HD-PE	CONDUCTOR
	O.D	1.20±0.10 mm	0.90±0.05 mm	0.95±0.05 mm	INSULATION
	N.O.	1P*2	1P	1P	FILLER
Face Outside	COVERGE	100%	/	/	DRAIN
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	/	/	
	COVERGE	90%MIN	/	/	
Foamed PP film	COVERGE	100%	/	/	
	OVERLAP	25%MIN	/	/	
	N.O.	(1P+ADBP)2C	1P	1P	
Foamed PP film	COVERGE		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		
ELECTRICAL CHARACTERISTICS					
USB2.0 UTP		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	0.30				
8	0.57				
12	0.76				
PHYSICAL PROPERTIES OF JACKET					
MINIMUM BEND RADIUS: 10X O.D.					
CONSTRUCTION D.W.G					
COLOUR CODE: (IP*26#+ADBP)*2C: 1. YELLOW * BLUE 2. ORANGE * PURPLE IP*26#: 1.GREEN *WHITE IP*24#: 1. BLACK RED					
COMPONENTS EXPRESS, INC. 10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517					
YS2018111302, 8-12-19					
APPROVED					CUSTOMER
CHECKED					REV
DRAWING	CHEN				DATE
					2018/11/13