

USB 3.0 is the next major revision to the Universal Serial Bus standard. This new revision promises higher data transfer rates (up to 4.8Gbps) with increased maximum bus power and is backwards compatible to USB 2.0.

PART NUMBER REFERENCE (U)













Select Connector Type: End "1"

Type A, Friction Fit = 1

Type A, w/Thumbscrews = 1B

Straight MICRO-B Exit with Thumbscrews = 2

MICRO-B R/A UP w/Recessed Screws = 3

MICRO-B R/A **DOWN** w/Recessed Screws = 4

MICRO-B Exit Right w/Recessed Screws = 5

MICRO-B Exit Left w/Recessed Screws = 6

Type A with Thumbscrews = 7

Type B with Thumbscrews = 8

Type B Friction Fit = 9

Type A Receptacle Friction Fit = 10

Type A Receptacle w/Threaded Inserts = 11

Type B /w/Threaded Inserts = 12

Select Cable Type:

Static (*Up to 5m)

Robotic (*Up to 5m) = 2

Extended Distance (*Up to 7m) = 3

Chain Flex (*Up to 5m) = 4

Select Connector Type: End "

Type A, Friction Fit = 1

Type A, w/Thumbscrews = 1B

Straight MICRO-B Exit with Thumbscrews = 2

MICRO-B R/A UP w/Recessed Screws = 3

MICRO-B R/A **DOWN** w/Recessed Screws = 4

MICRO-B Exit Right w/Recessed Screws = 5

MICRO-B Exit Left w/Recessed Screws = 6

Type A with Thumbscrews = 7

Type B with Thumbscrews = 8

Type B Friction Fit = 9

Type A Receptacle Friction Fit = 10

Type A Receptacle w/Threaded Inserts = 11

Type B /w/Threaded Inserts = 12

*Length in Meters:

Temp: 9-29-20

CONNECTOR TYPE OPTIONS:

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.



Type A Friction Fit



Type A W/Thumbscrew



Type A W/Thumbscrews



Micro B, Straight W/Thumbscrews



Micro B, R/A Up W/Recessed Screws



Micro B, R/A Down W/Recessed Screws



Micro B, Exit Right W/Recessed Screws



Micro B, Exit Left W/Recessed Screws



Type B W/Thumbscrews



Type B Friction Fit



Type A Receptacle Friction Fit

11



Type A Receptacle w/Threaded Inserts

12



Type B Receptacle w/Threaded Inserts

Temp: 9-29-20

USB 3.0 & USB 3.1 Type #: 1

SPEC No.:	(7/0.127TA*1PR+E	AIVI) ZT	(110.1211	A 11 K+A)+110.	TOTA ZCT	AD 63% USD 3.0	,	
Customer		Custom	er NO.		8 Code:	0	Sample NO.:	Y161015007
JL File NO.	E101344	UL Styl	e:	UL 2725	Date:	10/21/16	Spec NO.:	0
CSA File NO.		CSA St	yle:		Edition:	Original edition	Operation NO.:	
	Structure		St	ructure A	St	ructure B		Structure C
	Structure AWG	AWG	2	8# (7/36)	2	8# (7/36)		26# (7/34)
Conductors	Material		Tin	ned Copper	Tin	ned Copper		Tinned Copper
	O.D.	mm	0.38	Ref	0.38	Ref	0.471	Ref
	Material		FOA	M-SKIN-PE	F	OAM-PE		SR-PVC
	Diameter	mm	0	.89±0.07	0	.84±0.05	7	1±0.07
Insulation	Average Thickness	mm		0.255		0.230		0.265
	Color		AS	Color Code	AS	Color Code		AS Color Code
	Direction			eft (Z)		eft (Z)		
Twist	Diameter	mm		1.78 Ref		1.4 Ref	\mathbf{O}	
	Structure AWG	AWG		8# (7/36)		X		
Drain wire	Material			ned Copper		<u> </u>		
	Material			foil/mylar	AI	-foil/mylar		
Shielding	Conductive Side			Inside	-0	Inside		
1	Overlap Rate	%	25 MIN Hot-melt-Mylar		25 Ref			
	Material							
Separator		-	S no	i-meit-iviyiar				
2	Conductive Side			7				
	Overlap Rate	%		25 MIN		I C (7)		
	Direction		1			Left (Z)		
Layer	Pitch	mm	11.			75 Ref		
	Diameter	mm			3.9 Re			
Shielding	Material	1			AL-foil/mylar Outside			
3	Conductive Side							
	Overlap Rate	%					MIN	
Shielding	Shield		Braid Tinned Cop 85 MIN PVC					
4	Material							
	Coverage Rate	%						
	Material Diameter	mm				5.5 ± 0.		
	Min Thickness	mm				0.50		
Jacket	Extrusion					Semi substa		
	Externals					Plane		
	Color						(BLACK)	

USB 3.0 & USB 3.1 Type #: 1

SPEC No.:	(7/0.127TA*1PR+E	AM)*2+(7/0.127T	'A*1PR+A)+7/0.	16TA*2C+	AB 85% USB 3.0)	
Customer		Customer NO.		8 Code:	0	Sample NO.:	Y161015007
UL File NO.	E101344	UL Style:	UL 2725	Date:	10/21/16	Spec NO.:	0
CSA File NO.		CSA Style:		Edition:	Original edition	Operation NO.:	

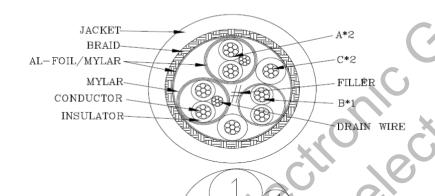


COMPONENTS EXPRESS, INC.

10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517

Y161015007 (E0894)

Rev. A, 10/26/2016, 8/12/19



Kensky.

COLOR CODE

1.YELLOW*BLUE

2.ORANGE*VIOLET

3.WHITE*GREEN

4.BLACK (P570)

5.RED (P572)

Pg. 2/3

MINIMUM BEND RADIUS: 10X O.D.

USB 3.0 & USB 3.1 Type #: 1

	ī						
SPEC No.:	(7/0.127TA	*1PR+EAM)*2+(7/0.127TA*1	PR+A)+7/0.	16TA*2C+AB	85% USB 3.0	
Customer		Customer NO.		8 Code:	0	Sample NO.:	Y161015007
UL File NO.	E101344	UL Style:	UL 2725	Date:	10/21/16	Spec NO.:	0
CSA File NO.		CSA Style:		Edition:	Original edition	Operation NO.	

Electric Characters

1. Voltage rating: 30V

2.Temperature rating : 80° C

3.Spark test: AC- 500V / 0.15 sec MIN. 4. Dielectric strength: AC- 750V/1sec MIN.

5.Insulation resistance :FOAM-SKIN-PE, FOAM-PE: DC- 500V 100 M Ω /KM MIN. at 20 $^{\circ}$ C

SR-PVC:DC-500V $10M \Omega/KM MIN.$ at $20^{\circ}C$

6.Conductor resistance : 28AWG-244 $\,\Omega/KM$ MAX. at 25°C

26AWG-153 Ω /KM MAX. at 25 $^{\circ}$ C

Transmission Characters

1.Differential impedance: 90±7 Ω (1PR+EAM)*2

2.Attenuation: (1PR+EAM)*2

Frequency (MHz)	100	625	1250	2500	5000	7500
Insertion Loss (MAX) dB/cable	-1.5	-3.1	-5	-7.5	-16,25	-25

3.Intra-pair skew:15PS/M

4.Differential to Common Mode Conversion: -20 dB@(2.0m)

5.Conductor resistance unbalance : 5%(1PR:GREEN*WHITE)

6.Attenuation:(1PR:GREEN*WHITE)

Frequency(MHz)	0.512	0.772	4.00 8.00	12.0	24.0	48.0	96.0	200.0	400.0
Attenuation(MAX)dB/cable	0.130	0.150 0.20	0.390 0.570	0.760	0.950	1.350	1.90	3.20	5.80

7.Impedance(1PR:GREEN*WHITE): 90Ω±15% @ TDR (differential)

8.Propagation Delay(1PR:GREEN*WHITE): 5.2ns/M MAX 9.Propagation Delay skew(1PR:GREEN*WHITE): 100PS MAX

Physical Characters

1.Flame test of cable:

1.1 VW-1

2. Tensil strength test (before aging):

2.1 Sheath : > 1.05kg/mm2 2.2 Insulation : >1.12kg/mm2

3.Tensil strength test (after aging):

3.1 Sheath: > 70%

3.2 Insulation: >70%

4. Elongation (before aging):

4.1 Sheath : > 100%

4.2 Insulation: >100%

5. Elongation(after aging):

5.1 Sheath: >65% 5.2 Insulation: >70%

6.Requirements for green environment protection: Accord with RoHS



COMPONENTS EXPRESS, INC.

10330 Argonne Woods Drive, Ste100 Woodridge, IL 60517

Y161015007 (E0894)

Rev. A, 10/21/2016, 8/12/19

Pg. 3/3

USB 3.0 Cable Type #: 2

SPECIFICATION:	ION:	(1P*26#+ADI	(1P*26#+ADBP)2C+1P*26#+1P*24#+FPB	4#+FPB	CONSTRUCTION	TION D.W.G	
II	ITEM		SPECIFICATION	ION		JAC	JACKET
,	AWG	26AWG	26AWG	24AWG		BRA	BRAID COPPER
CONDUCTOR	MATERIAL	TINNED COPPER	TINNED COPPER	TINNED COPPER			
	COND.SIZE	19/0.10±0.008 mm	19/0.10±0.008 mm	41/0.08±0.008 mm		Foar	Foamed PP film
	MIN.AVG.THICK	0.23 mm	0.23 mm	0.23 mm		AL	AI FOIL
INSULATION 1	MATERIAL	FM-PE+SKIN	HD-PE	HD-PE			
	O.D	1.20±0.10 mm	0.90±0.05 mm	0.95±0.05 mm	\prec	100	CONDUCTOR
	NO.	1P*2	IP	IP			
Face Outside	COVERAGE	100%				NS INS	INSULATION
AL.MYLAR	OVERLAP	25% MIN					FILLER
DRAIN	MATERIAL	TINNED COPPER				ar.	NP AIN
	SIZE	19/0.08±0.008 mm				NO	
BRAID	MATERIAL	TINNED COPPER			COLOI	COLOUR CODE:	
COPPER	SIZE	16*6/0.08±0.008MM			(1P*26#+ADBP)*2C:		
	COVERAGE	90%MIN			1. YELLOW * BLUE	В	
Foamed PP film COVERAGE	COVERAGE	100%			2. ORANGE * PURPLE	PLE	
	OVERLAP	25%MIN					
	NO.	(1P+ADBP)2C	IP (1P	1P*26#: 1.GREEN *WHITE		
Foamed PP film COVERAGE	COVERAGE		100%				
	OVERLAP		25% MIN		1P*24#: 1. BLACK RED		
BRAID	MATERIAL		TINNED COPPER				
COPPER	SIZE		$16*10/0.08\pm0.008$	16*10/0.08±0.008MM (Coverage: 85%MM)	CNAM MIMINIM	MINIMIM BEND BADILIS: 10X O D	_
	MIN.AVG.THICK		0.76 mm				
JACKET	MATERIAL		MIXING PVC				
	COLOUR		PURPLE				
	0.D		7.00 ± 0.30 mm				
					COMPC	COMPONENTS EXPRESS, INC.	SS, INC.
	ELECTRICAL (ELECTRICAL CHARACTERISTICS	PI	PHYSICAL PROPERTIES OF	I	10330 Argonne Woods Drive, Ste100	e, Ste100
USB2.0 UTP		USB3.0 STP*2P		JACKET	Woodrid	Woodridge, IL 60517	
Rating Temperature: 80°C : VOI Conductor Resistance: at 20°C max Z6AWG: 150Ω/km;	1. Rating Temperature: 80°C; VOLTAGE: 30V 2. Conductor Resistance: at 20°C max 26AWG: 1502/km;		1. Differential Impedance:90±7Ω 2. Intra-Pair Skew: 15ps /m 3. Attenuation/Insertion Loss:	~			
Insulation Resistance: 10MG Propagation Delay Skew:10 Time Delay: 5.2ns/m(max.)	 Insulation Kesistance: 10MΩ/km mm at 20°C dc 500V Propagation Delay Skew:100ps (Full-/High-speed only) Time Delay: 5.2ns/m(max) 		GHz SGHz		YS2018111302, 8/12/19	02, 8/12/19	
6. Impedance: 90±15%? 7. Attenuation(Full/High-speed only)	no. gh-speed only):	25dB@75GHz	25dB@7.5GHz				
F(MHz Attenuation(dB)	B) F(MHz) Attenuation(dB)	200	@ 0.1~7.5GHz		APPROVED	CUSTOMER	奕樹
0.064 0.08 0.256 0.11 0.512 0.13	24 0.95 48 1.35 06 1.00				CHECKED	REV	A/1
					DRAWING CHEN	DATE	2018/11/13
12 0.76							

USB 3.0 Cable Type #: 3

ITEM							
			SPECIFICATION	ION			
			26AWG	18AWG		JACKE	VE!
CONDUCTOR MATERIAL		TINNED COPPER	TINNED COPPER	R TINNED COPPER		BRA	BRAID COPPER
COND.SIZE	_	008MM	7/0.16±0.008MM	43/0.16±0.008MM		MYLAR	-AR
MIN.AVG.THICK	THICK 0.35MM		0.23MM	0.23MM		mm	
MATERIAL		SKIN	HD-PE	PVC		FILLER	ER
0 · D	1.35±0.10MM	MMO	1.00±0.10MM	1.80±0.10MM	5)		COVINICATOR
NO.	1P*2		119	2C	>	100	DOCTOR
AWG	24AWG				000	ISNI INSI	INSULATION
MATERIAL		TINNED COPPER	0//	,	100	1	
SIZE	7/0.20±0.008MM	.008MM	5	1		AL.	AL.MYLAK
COVERAGE	GE 100%					DRAIN	Z
OVERLAP	P 25% MIN	7		1	COFO	COLOUR CODE:	
COVERAGE	GE 100%	•			(1P*24#+DAM)2C:		
OVERLAP	P 25%MIN		<i>*</i>	5	1. YELLOW*BLUE	ш	
NO.	(1P+DAM)2C	M)2C	IP	2C	2. ORANGE*PURPLE	PLE	
COVERAGE	GE		100%				
OVERLAP	d		25% MIN		IP*26#: GREEN *WHITE		
MATERIAL	T			5			
SIZE			/		2C*18#: 1.BLACK 2.RED		
MATERIAL	TI.		TINNED COPPER	TR.			
SIZE		24*9/0.10±0.	24*9/0.10±0.008MM (COVERAGE:85% MIN)	GE:85% MIN)	MIMIM	MINIMIN BEND BADILIS: 40X O.	
MIN.AVG.THICK	THICK		0.50MM		MINIMOM BEN	CADIDS: 10A O.	
MATERIAL	IL.		PVC				
COLOUR			BLACK				
0.D			7.50±0.20MM				
					COME	COMPONENTS EXPRESS, INC.	SS, INC.
ELEC	ELECTRICAL CHARACTERISTICS	TERISTICS	PI	PHYSICAL PROPERTIES OF	10330	10330 Argonne Woods Drive, Ste100	e, Ste100
		USB3.0 STP*2P		JACKET	Woodr	Woodridge, IL 60517	
1. Rating Temperature: 80°C; VOL. 2. Conductor Resistance: at 20°C max 24AWG; 94.2Ω/km; 18/3. Insulation Resistance: 10MΩ/km n 4. Propagation Delay Skew:100ps (4.5. Time Delay: 5.2ns/m(max.)	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: 904.15%Ω	1. Differential Impedance:90±7Ω 2. Intra-Pair Skew: 15ps /m 3. Attenuation/Insertion Loss: 1.5dB/1.5M@0.1GHz 5.0dB/1.5M@1.25GHz 7.5dB/1.5M@2.5GHz 25dB/1.5M@7.5GHz	Ω/∓	1. Tensile Strength: Unaged: 1500PSI min Aged: 70% min 2. Elongation: Unaged: 100% min Aged: 65% 3. Heat shock test:	(E1013), 8/12/19	2/19	
F P	Attenuation(dB) 0.95		र्च	A. Cold bend test:	APPROVED	CUSTOMER	奕樹
48 96 200	1.90	32dB@0.1GHz		5. Deformation test: MAX 50%	CHECKED	REV	A/1
400	5.80	23dB@3.0GHz		6. Flame test: PASS VW-1	DRAWING CHEN	DATE	2018/5/17

USB 3.0 Cable Type #: 4

SPECIFICATION:	TION:	(1P*26#	(1P*26#+ADBP)2C+1P*26#+1P*24#+FPB	*24#+FPB	CONSTRUCTION	TION D.W.G	
II	ITEM		SPECIFICATION	TION		JACKET	ET
	AWG	26AWG	26AWG	24AWG		BRAII	BRAID COPPER
CONDUCTOR	MATERIAL	TINNED COPPER	TINNED COPPER	TINNED COPPER			
	COND.SIZE	19/0.10±0.008 mm	19/0.10±0.008 mm	41/0.08±0.008 mm		Foame	Foamed PP film
	MIN.AVG.THICK	0.23 mm	0.23 mm	0.23 mm		AL FOIL	JIC.
INSULATION	MATERIAL	FM-PE+SKIN	HD-PE	HD-PE			
	O.D	1.20±0.10 mm	0.90±0.05 mm	0.95±0.05 mm		NOO - CONI	CONDUCTOR
	NO.	1P*2	14	IP			ATTON
Face Outside	COVERAGE	100%				INSUI	INSULATION
AL.MYLAR	OVERLAP	25% MIN				THER FILER	ER
DRAIN	MATERIAL	TINNED COPPER	- C			DRAIN	Z
	SIZE	19/0.08±0.008 mm	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
BRAID	MATERIAL	TINNED COPPER				COLOUR CODE:	
COPPER	SIZE	16*6/0.08±0.008MM	M + M		(1P*26#+ADBP)*2C:		
	COVERAGE	06%MIN			1. YELLOW * BLUE	m	
Foamed PP film COVERAGE	COVERAGE	100%	2		2. ORANGE * PURPLE	J.E	
	OVERLAP	25%MIN		7			
	NO.	(1P+ADBP)2C	IP (1P	1P*26#: 1.GREEN *WHITE		
Foamed PP film COVERAGE	COVERAGE		100%				
	OVERLAP		25% MIN		1P*24#: 1. BLACK RED		
BRAID	MATERIAL		TINNED COPPER	ER			
COPPER	SIZE		16*10/0.08±0.00	16*10/0.08±0.008MM (Coverage: 85%MIN)	MINIMIM BEND	MINIMIM BEND BADIIIS: 10X O D	
	MIN.AVG.THICK		0.76 mm				
JACKET	MATERIAL		MIXING PVC				
	COLOUR		PURPLE				
	O.D		7.00 ± 0.30 mm				
					COMPC	COMPONENTS EXPRESS, INC.	SS, INC.
	ELECTRICAL	ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES OF	10330 Ai	10330 Argonne Woods Drive, Ste100	Ste 100
USB2.0 UTP		USB3.	USB3.0 STP*2P	JACKET	Woodride	Woodridge, IL 60517	
1. Rating Temperature: 80°C; VOI 2. Conductor Resistance: at 20°C max 26AWG: 150Ω/km;	e: 80°C; VOLTAGE: 30V loe: at 20°C max 50Ω/km;		1. Differential Impedance:90±7Ω 2. Intra-Pair Skew: 15ps /m 3. Attenuation/Insertion Loss:				
3. Insulation Resistan 4. Propagation Delay 5. Time Delay: 5.2ns 6. Innedance: 90±155	3. Insulation Kesistance: 10MΩ/km mm at 20°C dc 500V 4. Propagation Delay Stew.100ps (Full-High-speed only) 5. Time Delay: 5.2ns/m(max) 6. Impedance: 90±15%. 6. Impedance: 90±		1.5dB@0.1GHz 5.0dB@1.25GHz 7.5dB@2.5GHz		YS2018111302, 8/12/19)2, 8/12/19	
7. Attenuation(Full/High-speed only)	igh-speed only):		25dB@7.5GHz 4. Differential to common mode:		-		
Atten	F(MHz) Attenu	222	20dB/cable @ 0.1~7.5GHz		APPROVED	CUSTOMER	奕樹
0.064 0.08	24 0.95 48 1.35 06 1.00				CHECKED	REV	A/1
0.772 0.15					DRAWING CHEN	DATE	2018/11/13
8 0.57 17 0.76							
					_		