



USB 3.1 CABLES

PART NUMBER REFERENCE



Select Connector Type: End "1":

Connector types: 1,2,and 2B (See Below)

Cable Type Options:

STATIC USB 3.0 = 1

Select Connector Type: End "2"

- USB C Type Friction Fit = 3
- USB C Type W/single Thumbscrew = 4
- USB C Type W/Dual Thumbscrews = 5

Option: Length in Meters

CONNECTOR TYPE OPTIONS:



1
USB3.0 A Type Friction Fit



2
USB3.0 A Type W/Thumbscrews



2B
Type A W/Thumbscrew



3
USB C Type Friction Fit



4
USB C Type W/Single Thumbscrew



5
USB C Type W/Dual Thumbscrews

USB 3.0 & USB 3.1 Type #: 1

SPEC No.:	(7/0.127TA*1PR+EAM)*2+(7/0.127TA*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.:	
Structure		Structure A		Structure B		Structure C	
Conductors	Structure AWG	AWG	28# (7/36)	28# (7/36)	28# (7/36)	26# (7/34)	
	Material	--	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper	
	O.D.	mm	0.38 Ref	0.38 Ref	0.38 Ref	0.471 Ref	
Insulation	Material	--	FOAM-SKIN-PE	FOAM-PE	FOAM-PE	SR-PVC	
	Diameter	mm	0.89±0.07	0.84±0.05	0.84±0.05	1±0.07	
	Average Thickness	mm	0.255	0.230	0.230	0.265	
	Color	--	AS Color Code	AS Color Code	AS Color Code	AS Color Code	
Twist	Direction	--	Left (Z)	Left (Z)	Left (Z)	--	
	Diameter	mm	1.78 Ref	1.4 Ref	1.4 Ref	--	
Drain wire	Structure AWG	AWG	28# (7/36)				
	Material	--	Tinned Copper				
Shielding 1	Material	--	AL-foil/mylar	AL-foil/mylar	AL-foil/mylar	--	
	Conductive Side	--	Inside	Inside	Inside	--	
	Overlap Rate	%	25 MIN	25 Ref	25 Ref	--	
Separator 2	Material	--	Hot-melt-Mylar	--	--	--	
	Conductive Side	--	--	--	--	--	
	Overlap Rate	%	25 MIN	--	--	--	
Layer	Direction	--	Left (Z)				
	Pitch	mm	75 Ref				
	Diameter	mm	3.9 Ref				
Shielding 3	Material	--	--	AL-foil/mylar	AL-foil/mylar	--	
	Conductive Side	--	--	Outside	Outside	--	
	Overlap Rate	%	--	25 MIN	25 MIN	--	
Shielding 4	Shield	--	Braid				
	Material	--	Tinned Copper				
	Coverage Rate	%	85 MIN				
Jacket	Material	--	PVC				
	Diameter	mm	5.5 ± 0.19				
	Min Thickness	mm	0.50				
	Extrusion	--	Semi substantiate				
	Externals	--	Plane				
	Color	--	Z001 (BLACK)				

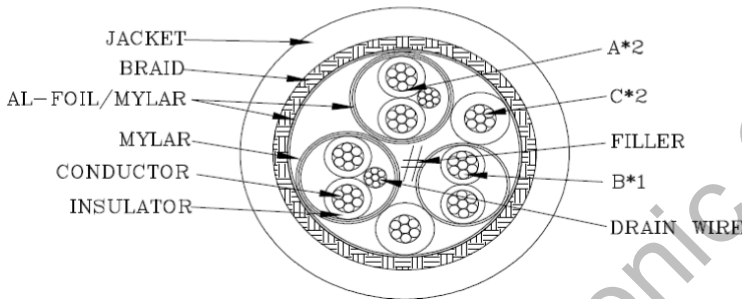
USB 3.0 & USB 3.1 Type #: 1

SPEC No.:	(7/0.127TA*1PR+EAM)*2+(7/0.127TA*1PR+A)+7/0.16TA*2C+AB 85% USB 3.0						
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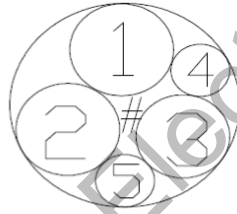
COMPONENTS EXPRESS, INC.
 10330 Argonne Woods Drive, Ste100
 Woodridge, IL 60517

Y161015007 (E0894)
 Rev. A, 10/26/2016, 8/12/19



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.

Aegis Electronic Group
www.aegisselect.com

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Electric Characters

- Voltage rating :30V
- Temperature rating : 80°C
- Spark test: AC- 500V / 0.15 sec MIN.
- Dielectric strength : AC- 750V/1sec MIN.
- Insulation resistance :FOAM-SKIN-PE, FOAM-PE: DC- 500V 100 MΩ/KM MIN. at 20°C
SR-PVC:DC-500V 10MΩ/KM MIN. at 20°C
- Conductor resistance : 28AWG-244 Ω/KM MAX. at 25°C
26AWG-153 Ω/KM MAX. at 25°C

Transmission Characters

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

- Intra-pair skew:15PS/M
- Differential to Common Mode Conversion: -20 dB@(2.0m)
- Conductor resistance unbalance : 5%(1PR:GREEN*WHITE)
- Attenuation:(1PR:GREEN*WHITE)

Frequency(MHz)	0.512	0.772	1.00	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

- Impedance(1PR:GREEN*WHITE) : 90Ω±15% @ TDR (differential)
- Propagation Delay(1PR:GREEN*WHITE) : 5.2ns/M MAX
- Propagation Delay skew(1PR:GREEN*WHITE): 100PS MAX

Physical Characters

- Flame test of cable:
 - VW-1
- Tensile strength test (before aging):
 - Sheath : > 1.05kg/mm2
 - Insulation : > 1.12kg/mm2
- Tensile strength test (after aging):
 - Sheath: >70%
 - Insulation: >70%
- Elongation(before aging):
 - Sheath : > 100%
 - Insulation : >100%
- Elongation(after aging):
 - Sheath : > 65%
 - Insulation : >70%
- Requirements for green environment protection:Accord with RoHS



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