

USB3.1 Type # 2

SPEC No.:	(7/0.084TA*1C+SAM)*8+(7/0.08TA*2C+7/0.08TA*4C+2EA)+7/0.2TA*1C+Semi conductive tape+B 85%							
Customer		Customer NO.		8 Code:		Sample NO:	Q150507001	
UL File NO.		UL Style:	0	Date:	5/12/15	Spec NO:	0	
CSA File NO.	0	CSA Style:	0	Edition:	Original edition	Operation NO:	0	
Structure		Structure A		Structure B		Structure C		StructureD
Conductors	Structure AWG	AWG	32#(7/0.084±0.008)	32#(7/0.08±0.008)	32#(7/0.08±0.008)	24#(7/0.2±0.008)		
	Material	--	Tinned Copper	Tinned Copper	Tinned Copper	Tinned Copper		
	O.D.	mm	0.24 Ref	0.24 Ref	0.24 Ref	0.591 Ref		
Insulation	Material	--	FEP	PE	PP	PP		
	Diameter	mm	0.63±0.05	0.56±0.05	0.55±0.05	0.9±0.07		
	Average Thickness	mm	0.2	0.145	0.145	0.145		
	Color	--	AS Color Code	AS Color Code	AS Color Code	AS Color Code		
Twist	Direction	--	--	Left (Z)		--		
	Diameter	mm	--	1.7		--		
Drain wire	Structure AWG	AWG	--	26#(7/0.16±0.008)*2PCS		--		
	Material	--	--	Tinned Copper		--		
Shielding	Shield	--	Spiral	--		--		
	Structure AWG	AWG	40±2/0.05±0.008	--		--		
	Material	--	Tinned Copper	--		--		
	Coverage	%	95	--		--		
Shielding	Material	--	AL-foil/mylar	AL-foil/mylar		--		
	Conductive Side	--	Inside	Inside		--		
	Overlap Rate	%	25MIN	25		--		
Shielding	Material	--	Hot-mel-Mylar	--		--		
	Conductive Side	--	--	--		--		
	Overlap Rate	%	25MIN	--		--		
Layer	Direction	--	Left (Z)		--			
	Pitch	mm	160 Ref		--			
	Diameter	mm	3.58 Ref		--			
Shielding	Material	--	Semi conductive tape		--			
	Conductive Side	--	--		--			
	Overlap Rate	%	25MIN		--			
Shielding	Shield	--	Braid		--			
	Structure AWG	AWG	176/40#(16/11/0.08±0.008)		--			
	Material	--	Tinned Copper		--			
	Coverage	%	85		--			
Jacket	Material	--	PVC		--			
	Diameter	mm	4.8±0.15		--			
	Min Average Thickness	mm	0.23 Ref		--			
	Extrusion	--	Semi-tubing		--			
	Surface	--	Plane		--			
	Color	--	POYD(P4186) (GRAY)		--			
Inking	Color	--	--		--			
	Inking NO.	--	--		--			

1	Differential Impedance	C-C cable (Gen 2 speed)	
		90 Ω ± 5 Ω @ 200 ps (10%-90%)	Coaxial 結構
		45 Ω ± 3 Ω @ 200 ps (10%-90%)	
		Connector 85 Ω ± 9 Ω@40 ps (20%-80%)	
2	Intra Pair Skew	10ps/m @ 200 ps (10%-90%)	Only reference
3	Differential to common	<-20dB at 0.1~10Ghz	Only reference
5	Insertion Loss(dB/M)	-2 dB/m @0.1 GHz -4 dB/m @2.5GHz -6 dB/m @5 GHz -11 dB/m @10 GHz -20 dB/m@15 GHz	Only reference
			Only reference
6	Differential near-end crosstalk between SuperSpeed Gen 2 signal pairs	-37 dB @ 0.1 GHz -37 dB @ 5 GHz -32 dB @ 10GHz -25 dB @ 15GHz	
	Differential near-end and far-end crosstalk between D+/D- pair and SuperSpeed Gen2 pairs	-35 dB @ 100 MHz -35 dB @ 5000 MHz -30 dB @ 7500 MHz	Only reference
USB2.0			
1	Differential Impedance	Cable@400ps Tr (20-80%) 90 Ω ±15 Ω	
2	Propagation Delay	20 ns max. @ 400 ps Tr (20-80%).	
3	Intra-pair Skew	100 ps max. @ 400 ps Tr (20-80%)	
4	Insertion Loss	≥ -1.02 dB @ 50 MHz ≥ -1.43 dB @ 100 MHz ≥ -2.40 dB @ 200 MHz ≥ -4.35 dB @ 400 MHz	

SPEC No.:	(7/0.084TA*1C+SAM)*8+(7/0.08TA*2C+7/0.08TA*4C+2EA)+7/0.2TA*1C+Semi conductive tape+B 85%						
Customer		Customer NO.		8 Code:		Sample NO:	Q150507001
UL File NO.		UL Style:	0	Date:	5/12/15	Spec NO:	0
CSA File NO.	0	CSA Style:	0	Edition:	Original edition	Operation NO:	0

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/1 sec MIN.
- 5.Insulation resistance:FEP, PE,PP : DC- 500V 100 MΩ/KM MIN. at 20°C
- 6.Conductor resistance : 32AWG-588 Ω/KM MAX. at 20°C
24AWG- 95.8 Ω/KM MAX. at 25°C

Physical Characters

- 1.Requirements for green environment protection : Accord with RoHS
- 2.It can pass 3A Current

SPEC No.:	(7/0.084TA*1C+SAM)*8+(7/0.08TA*2C+7/0.08TA*4C+2EA)+7/0.2TA*1C+Semi conductive tape+B 85%						
Customer		Customer NO.		8 Code:		Sample NO:	Q150507001
UL File NO.		UL Style:	0	Date:	5/12/15	Spec NO:	0
CSA File NO.	0	CSA Style:	0	Edition:	Original edition	Operation NO:	0

Structure	Structure A	Structure B	Structure C	StructureD
-----------	-------------	-------------	-------------	------------

Draw NO.:

COLOR CODE

- 1.NATURE (WHITE Hot-mel-Mylar)
- 2.NATURE (RED Hot-mel-Mylar)
- 3.NATURE (BLACK Hot-mel-Mylar)
- 4.NATURE (BLUE Hot-mel-Mylar)
- 5.NATURE (ORANGE Hot-mel-Mylar)
- 6.NATURE (BROWN Hot-mel-Mylar)
- 7.NATURE (GREEN Hot-mel-Mylar)
- 8.NATURE (YELLOW Hot-mel-Mylar)
- 9.GREEN
- 10.WHITE
- 11.BLACK
- 12.BLUE
- 13.RED
- 14.YELLOW
- 15.RED