

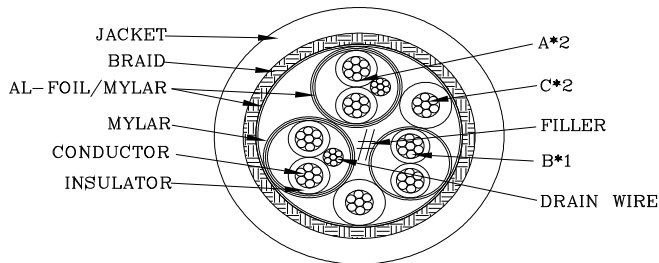
CEI USB Type # I

Cable Specification

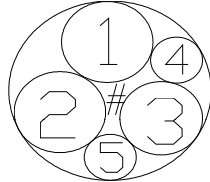
SPEC No.:	(7/0.127TA*1PR+EAM)*2+(7/0.127TA*1PR+A)+7/0.16TA*2C+AB 85% USB 3.0						
Customer		Customer NO.		8 Code:	0	Sample NO.:	Y161015007
UL File NO.	E101344	UL Style:	UL 2725	Date:	10/21/16	Spec NO.:	0
CSA File NO.		CSA Style:		Edition:	Original edition	Operation NO.:	
	Structure		Structure A	Structure B	Structure C		
Conductors	Structure AWG	AWG	28# (7/36)	28# (7/36)	26# (7/34)		
	Material	--	Tinned Copper	Tinned Copper	Tinned Copper		
	O.D.	mm	0.38 Ref	0.38 Ref	0.471 Ref		
Insulation	Material	--	FOAM-SKIN-PE	FOAM-PE	SR-PVC		
	Diameter	mm	0.89±0.07	0.84±0.05	1±0.07		
	Average Thickness	mm	0.255	0.230	0.265		
	Color	--	AS Color Code	AS Color Code	AS Color Code		
Twist	Direction	--	Left (Z)	Left (Z)	--		
	Diameter	mm	1.78 Ref	1.4 Ref	--		
Drain wire	Structure AWG	AWG	28# (7/36)				
	Material	--	Tinned Copper				
Shielding 1	Material	--	AL-foil/mylar	AL-foil/mylar	--		
	Conductive Side	--	Inside	Inside	--		
	Overlap Rate	%	25 MIN	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	--		
	Conductive Side	--	--	Outside	--		
	Overlap Rate	%	--	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)				

CEI USB Type # I Cable Specification

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
Inking	Color	--	WHITE				
		EJIC	AWM E101344 STYLE 2725 VW-1 80°C 30V SPACE SHUTTLE-C Universal Serial Bus 3.0				



- COLOR CODE**
1. YELLOW*BLUE
 2. ORANGE*VIOLET
 3. WHITE*GREEN
 4. BLACK (P570)
 5. RED (P572)



CEI USB Type # I Cable Specification

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.	

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 MΩ/KM MIN. at 20°C
SR-PVC:DC-500V 10MΩ/KM MIN. at 20°C
- 6.Conductor resistance : 28AWG-244 Ω/KM MAX. at 25°C
26AWG-153 Ω/KM MAX. at 25°C

Transmission Characters

- 1.Differential impedance: 90±7Ω (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	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

- 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.Tensile strength test (before aging) :
 - 2.1 Sheath : > 1.05kg/mm2
 - 2.2 Insulation : > 1.12kg/mm2
- 3.Tensile 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

Approval	WANG	Auditor	HUANG	Producer	TANG
----------	------	---------	-------	----------	------