

USB 2.0 Type #: 2

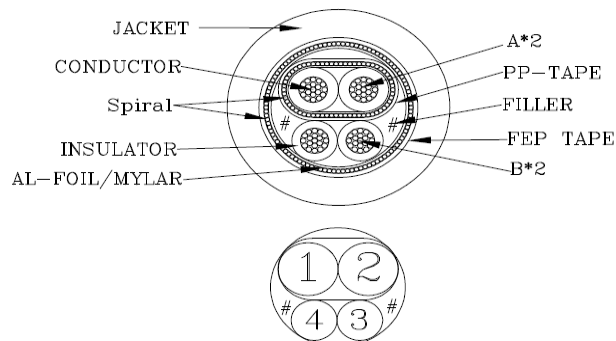
SPEC No.:	(19/0.08TA*2K+AS 90%+PP-TAPE)+(19/0.1TA+250D NYLON)*2C+AS 90%+FEP TAPE USB 2.0						
Customer		Customer NO.		8 Code		Sample NO:	Y161015004
UL File NO.	E101344	UL Style:	UL 20276	Date:	10/26/16	Spec NO:	
CSA File NO.	0	CSA Style:	0	Edition:.	Original edition	Operation NO:	0
	Structure		Structure A			Structure B	
Conductors	Structure AWG	AWG	28# (19/40)			26# (19/38)	
	Material	--	Tinned Copper			Tinned Copper	
	Filler	--	--			250D NYLON	
	O.D.	mm	0.38 Ref			0.49 Ref	
Insulation	Material	--	PE			PE	
	Diameter	mm	1.10±0.07			1.00±0.07	
	Average Thickness	mm	0.360 Ref			0.255 Ref	
	Color	--	AS Color Code			AS Color Code	
Shielding 1	Material	--	AL-foil/mylar			--	
	Conductive Side	--	Inside			--	
	Overlap Rate	%	25 MIN			--	
Shielding 2	Shield	--	Spiral			--	
	Material	--	Tinned Copper			--	
	Coverage Rate	%	90			--	
Shielding 1	Material	--	PP-TAPE			--	
	Conductive Side	--	--			--	
	Overlap Rate	%	25 MIN			--	
Layer	Direction	--	Left (Z)				
	Pitch	mm	50 Ref				
	Diameter	mm	2.95 Ref				
Shielding 1	Material	--	--	AL-foil/mylar		--	
	Conductive Side	--	--	Outside		--	
	Overlap Rate	%	--	25		--	
Shielding 2	Shield	--	Spiral				
	Material	--	Tinned Copper				
	Coverage Rate	%	90 MIN				
Shielding 1	Material	--	FEP TAPE				
	Conductive Side	--	--				
	Overlap Rate	%	25 MIN				
Jacket	Material	--	PVC				
	Diameter	mm	5.2 ± 0.19				
	Min Average Thickness	mm	0.50				
	Extrusion	--	Solid				
	Externals	--	Plane				
Color	--	PA7Q(P4459) (VIOLET)					



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

Y161015004 (E1014)

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



COLOR CODE
1.GREEN
2.WHITE
3.BLACK
4.RED

MINIMUM BEND RADIUS: 10X O.D.

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CABLE CHARACTERS

SPEC No.:	(19/0.08TA*2K+AS 90%+PP-TAPE)+(19/0.1TA+250D NYLON)*2C+AS 90%+FEP TAPE USB 2.0						
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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: PE: DC-500V 100MΩ/KM MIN. at 20°C
- 6.Conductor resistance: 28AWG-244Ω/KM MAX. at 25°C
26AWG-153Ω/KM MAX. at 25°C

Transmission Characters :

- 1.Conductor resistance unbalance: 5%
- 2.Attenuation :

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

- 3.Impedance : 30Ω±30% @ TDR (Common mode)
90Ω±15% @ TDR (differential)
- 4.Propagation Delay : 5.2ns/M MAX
- 5.Propagation Delay skew : 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: > 1.05kg/mm² (PE)
- 3.Tensile strength test (after aging):
 - 3.1 Sheath : > 70%
 - 3.2 Insulation : > 70% (PE)
- 4.Elongation (before aging) :
 - 4.1 Sheath : > 100%
 - 4.2 Insulation : > 100% (PE)
5. Elongation(after aging):
 - 5.1 Sheath : > 65%
 - 5.2 Insulation : > 65% (PE)
- 6.Requirements for green environment protection :Accord with RoHS



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