

Lighted USB Cable Assemblies

Description:

Cable Assemblies for USB 2.0 (Universal Serial Bus) with integrated illumination at the connectors. These cables add a distinctive glow to their normal job of connecting peripheral devices to computers. They are available in a variety of colors and are ideal for applications that benefit from improved aesthetics, peripheral discrimination, or visual confirmation that the cable is powered-up.

Typical Applications:

- Desktop computers
- Notebook computers
- Printers, scanners
- External hard disk drives

Benefits/Features:

- Aesthetics. Lighted Connectors provide striking visual appeal.
Clear-braid cable adds to improved appearance.
- Industry Standard Meets the speed requirements of USB 2.0.
- Flexible System Several standard Cable lengths are available.
Available in a variety of illumination colors to match artistic themes.
- Ruggedness and Reliability Full metal shields and overmolded illumination circuitry protect the cable from physical and ESD (Electro Static Discharge) damage.



Selectable Features:

Product Type	Lighted USB cable assemblies
Total No. of Positions	4/4
Centerline Spacing	2.00 mm (.079 in.) 2.50 mm (.098 in.)
Operating Voltage	30 VDC (Power Pins), 5 VDC (Signal)
Insertion Style	Cable
Contact Style	Formed
Contact Area Plating (Plug)	0.76 μ m (30 μ in.) gold
Shell Plating (4P Plug)	Nickel
Housing Color (Plug)	White (Type A and Type B)
Cable Types	USB Type A to Type B Detachable
Cable Diameter	4.5 mm
Wire Size	Signal Pair/Power Pair: 28/24 AWG Drain Wire: 26 AWG
LED Colors	White, red, green, blue, orange
Length	0.5 m, 1.0 m, 1.5 m, 1.8 m, 2.0 m, 3.0 m
Overmold Color (Plug)	Transparent
Cable Jacket Color	Transparent
Application	Wire-to-board

Other Properties:

Packaging Type	Polybag
Housing Material (Plug)	PBT, UL94V-0
Overmold Material (Plug)	PVC
Cable Jacket	PVC
Contact Base Material	Copper Alloy
Insulation Resistance	1000 M Ω min.
Withstanding Voltage	500 VAC RMS
Current Rating	1.5 amp max, per contact
Contact Resistance (Plug)	30 m Ω max.
Contact Resistance (Cable)	Signal Pair: .237 Ω /m max. Power Pair: .093 Ω /m max.
Voltage Rating	30 VAC
Temperature Range	0°C to +50°C
Durability (Mating Cycles)	1500 cycles
Mating Force	35 N [7.87 lbf] max.
Unmating Force	10 N [2.25 lbf] min.
Plating (Contact Area)	0.76 μ m (30 μ in.) gold over nickel underplating

Plating (Soldering End)	2.54 μ m [100 μ in.] tin-lead min. over nickel underplating
Underplating	1.27 μ m [50 μ in.] nickel min.
Impedance Differential	90 Ω $\pm$ 15%
Impedance Common Mode	30 Ω $\pm$ 30%
Attenuation	Up to 5.8 dB at 400MHz (see specification for details)
Propagation Delay	5.2 ns/m max.
Delay Skew	100 ps max.
Contact Capacitance	2 pF max., per contact
Shell Base Material	Steel
Standards	Universal Serial Bus Revision 2.0 specification USB 2.0 Specification ECN #1: Mini-B connector
Approvals and Certification	UL approved

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Ordering Nomenclature

15430623

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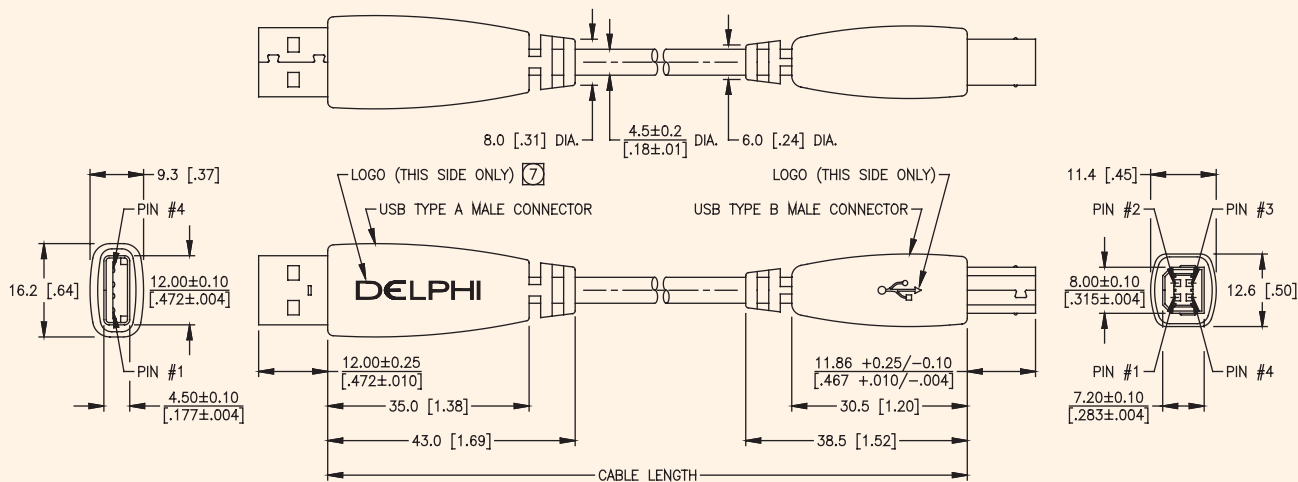
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Color Options:

1 = White **4** = Blue
2 = Red **5** = Orange
3 = Green

Cable Length Options:

0 = 250 ±30 [9.84 ±1.18]
1 = 500 ±30 [19.69 ±1.18]
2 = 1000 ±30 [39.37 ±1.18]
3 = 1500 ±50 [59.06 ±1.97]
4 = 1800 ±50 [70.87 ±1.97]
5 = 2000 ±50 [78.74 ±1.97]
6 = 3000 ±50 [118.11 ±1.97]



USB TYPE A MALE		PIN OUT	USB TYPE B MALE	
	PIN #1	24 AWG RED		PIN #1
	PIN #2	28 AWG WHITE		PIN #2
	PIN #3	28 AWG GREEN		PIN #3
	PIN #4	24 AWG BLACK		PIN #4
	SHELL	BRAID		SHELL

Dimensions are in millimeters and [inches].

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