

# 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 μm (30 μin.) 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 MΩ min.
Withstanding Voltage	500 VAC RMS
Current Rating	1.5 amp max, per contact
Contact Resistance (Plug)	30 mΩ 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 μm (30 μin.) gold over nickel underplating

Plating (Soldering End)	2.54 μm [100 μin.] tin-lead min. over nickel underplating
Underplating	1.27 μm [50 μin.] nickel min.
Impedance Differential	90Ω ± 15%
Impedance Common Mode	30Ω ± 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

# Lighted USB Cable Assemblies

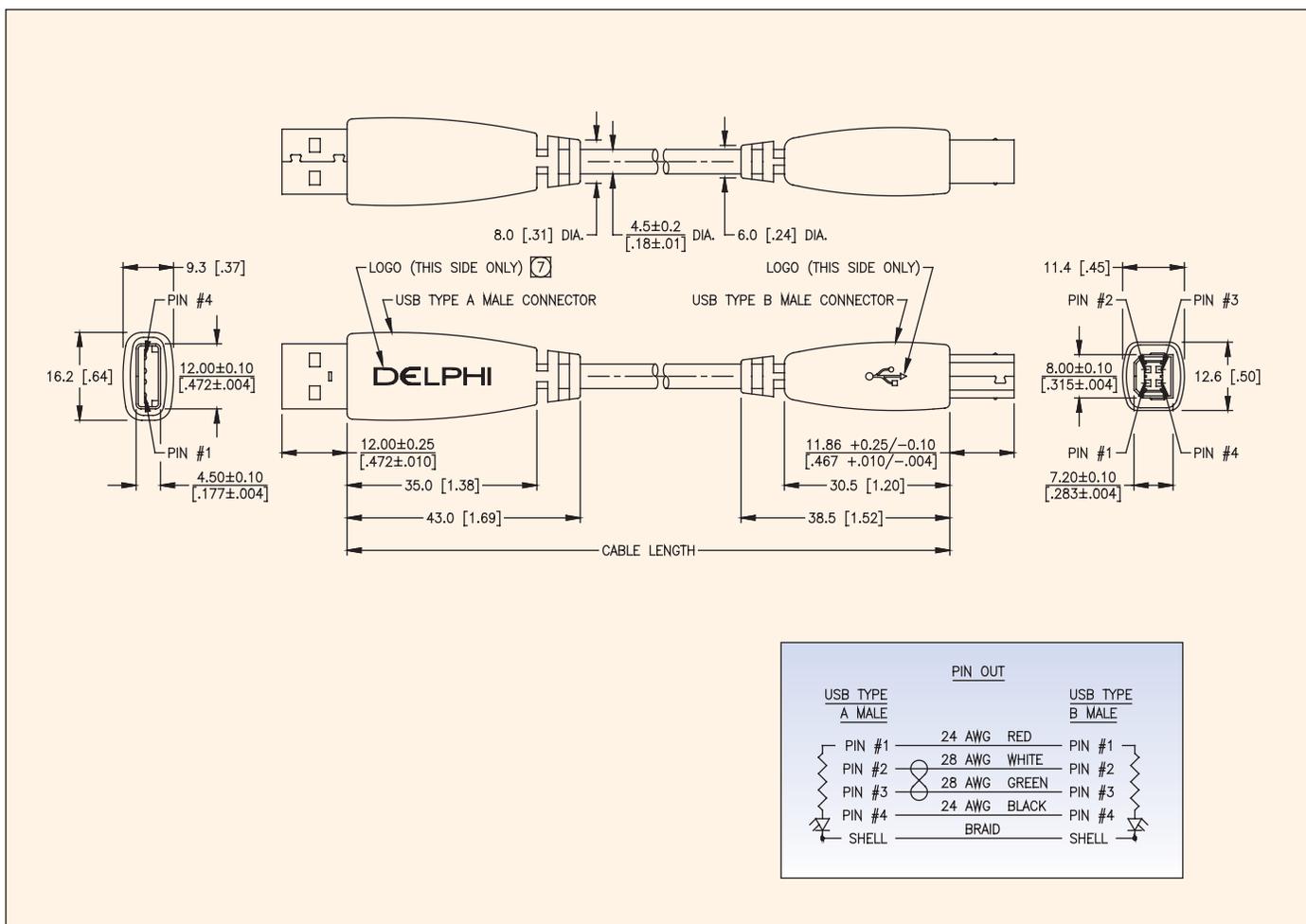
Ordering Nomenclature **15430623** - **1** **1** **0**

### 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]



Dimensions are in millimeters and [inches].

For additional information, please contact us or visit our website.

# DELPHI

[www.delphi.com/connect](http://www.delphi.com/connect)

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