

Two-sided magnetic cable connector for devices

DESCRIPTION

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to cable connectors for connecting different devices and, more particularly to magnetic and locking connector tips.

2. Description of the Related Art

As the amount of information and data grows, so too does the number of devices and the interconnections between those devices. Current cabling technology for connection those devices is deficient in many respects. A need exists for improved cable designs.

SUMMARY OF THE INVENTION

Aspects of the present invention relate to systems and methods for improving cable connections and improving signal data processing capabilities between devices connected with two-sided magnetic connector cables.

The adhesive sticks to the device with insert of magnetic tip to the device's charging port and the connector tip magnet secures the cable magnetic connector to the device. A processor is included in the cable connector for processing of data. The processor may likewise, for example, be associated with the cable through an integral connection, such as within the cable connector end and to flow both way or as an add-on device. The cable may include one or more items from the group consisting of an LED, a processor, a microprocessor, an integrated circuit, a magnetic connector, a locking connector and the like. (FIGS. 10)

In embodiments, the magnetic cable connector one end may be of Type A and the other end may be of USB Micro. The USB Micro connector tip may support charging mode, data-transfer mode. (FIGS. 3)

In embodiments, the magnetic cable connector one end may be of Type A and the other end may be of USB Mini. The USB Mini connector tip may support charging mode, data-transfer mode. (FIGS. 4)

In embodiments, the magnetic cable connector one end may be of Type A and the other end may be of USB Type C. The USB Type C connector tip may support charging mode, data-transfer mode. (FIGS. 5)

In embodiments, the magnetic cable connector one end may be of USB Type C and the other end may be of USB Type C. The USB Type C connector tip may support charging mode, data-transfer mode. (FIGS. 6)

In embodiments, the magnetic cable connector one end may be of USB Type C and the other end may be of USB Type C. The USB Type C connector tip may support charging mode, data-transfer mode. (FIGS. 7)

In embodiments, the magnetic cable connector one end may be of USB Micro and the other end may be of USB Mini. The USB Mini connector tip may support charging mode, data-transfer mode. (FIGS. 8)

In embodiments, the magnetic cable connector one end may be of USB Micro and the other end may be of USB Micro. The USB Micro connector tip may support charging mode, data-transfer mode. (FIGS. 9)

In embodiments, the magnetic element may be made of metal that has magnetic properties, a magnet, an electromagnet, and the like.

In embodiments, the device connector may include a processor, a microprocessor, and the like. The processor may provide impedance matching. The impedance matching may be achieved by adjusting attributes associated with the cable. In embodiments, the processor may perform signal equalization. In embodiments, the processor may adjust signal strength. The strength of the signal may be increased. In embodiments, the processor may regulate heat transfer. In embodiments, the processor may regulate thermal management, reduce cross talk, reduce noise and electromagnetic interference, facilitate switching among various circuits, provide status information, and the like.

In embodiments, the status information may be provided by an indicator. In embodiments, the status information may be provided by a display. The display may include at least an LED. The LED may be multi-colored LED and may provide a feedback information to a user.

In embodiments, The methods and systems may include a cable having a data transmission wire, a device connector mechanically attached to the device connector port, a magnetic element having a shape suitable for mating with a device side of the device connector tip, and a double-sided adhesive element having a shape suitable for mating with the magnetic element. The cable may have a device connector end. One side of the double-sided adhesive element may be adhered to the magnetic element, and the other side of the adhesive element may be used for adhering to a device.