

ABSTRACT

A two-sided magnetic connector power cable relying on magnetic force to contact both end with specify device magnetic tips for diference type of devices. The cable and connector can be used as part of a power cable for connecting an electronic device, such as a smartphone, table, laptop computer, to a power supply & data-transfer. The cable connector & connector tips both have magnetic element and/or a locking mechanism for the connector tip, which is preferably a rare earth neodymium magnets (Grade: N52) although electromagnets may also be used and combining magnetic fields on a same suface to prevent wrong side between positive & negative contact. The two-sided cable connector can flow in either direction to contact with connector tips. In addition, the connector and/or cable may include a processor, an integrated circuit, an indicator, an LED and/or a user interface.

Example 1: Cable connector side left (L) connect to connector tip (A) and cable connector right (R) connect to connector tip (B) (FIGS. 1)

Example 2: Cable connector side right (R) connect to connector tip (A) and cable connector left (L) connect to connector tip (B) (FIGS. 2)

1. USB Type A connector tip with magnetic element
2. USB Type C connector tip with magnetic element
3. USB Micro connector tip with magnetic element
4. USB Mini connector tip with magnetic element
5. Magnets at the cable connector
6. Microprocessor
8. Pogo pin with spring to contach with tip connector
7. LED indicator
9. Magnets at the tip connector
10. Pin connector for Type A connector tip