

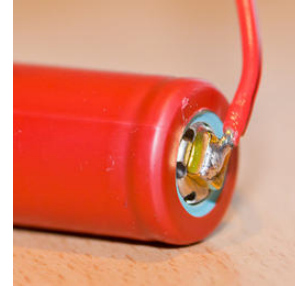
Application No. 578: Universal charging cable for rechargeable batteries

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Magnets connect uncommon rechargeable batteries with charging cable

I use lithium ion batteries (format 18650) for my LED lamps. Due to their length of 65 mm they don't fit into my battery charger.

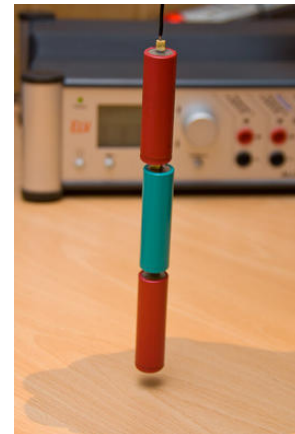
Hence, I built a special charging cable with super magnets. I soldered the cords to gold-plated block magnets Q-05-05-02-G (www.supermagnete.de/eng/Q-05-05-02-G) and use it to connect to all rechargeable batteries directly.



The soldering is the tricky part. If you solder too long, the magnets lose their strength (see FAQ (www.supermagnete.de/eng/faq/temperature)). But you'll get it with a little practice. As you can see in the picture, they still have enough strength to hold three batteries.

By the way: The measured electric resistance of such a charging cable (positive and negative cable) is below $2 \times 0,025$ ohm.

Note from the supermagnete team: Another option for charging batteries shows the application "Universal connection for battery charging device" (www.supermagnete.de/eng/project197).



Articles used

Q-05-05-02-G: Block magnet 5 x 5 x 2 mm (www.supermagnete.de/eng/Q-05-05-02-G)

Q-05-05-02-N: Block magnet 5 x 5 x 2 mm (www.supermagnete.de/eng/Q-05-05-02-N)

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