



The power supply for the finger scanners (clamps 3 and 4) is not taken into account. It is done via wire pair 3 and 4 of the corresponding J-Y(ST)Y cable to the finger scanners and must not be carried out „linearly“.

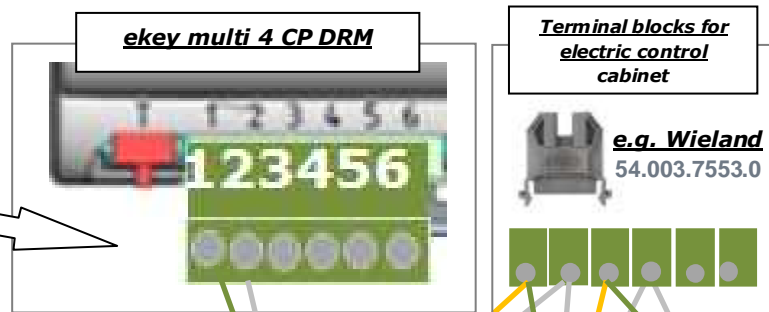
## CABLE RECOMMENDATION

**J-Y(ST)Y 4 x 2 x 0,8mm<sup>2</sup>**



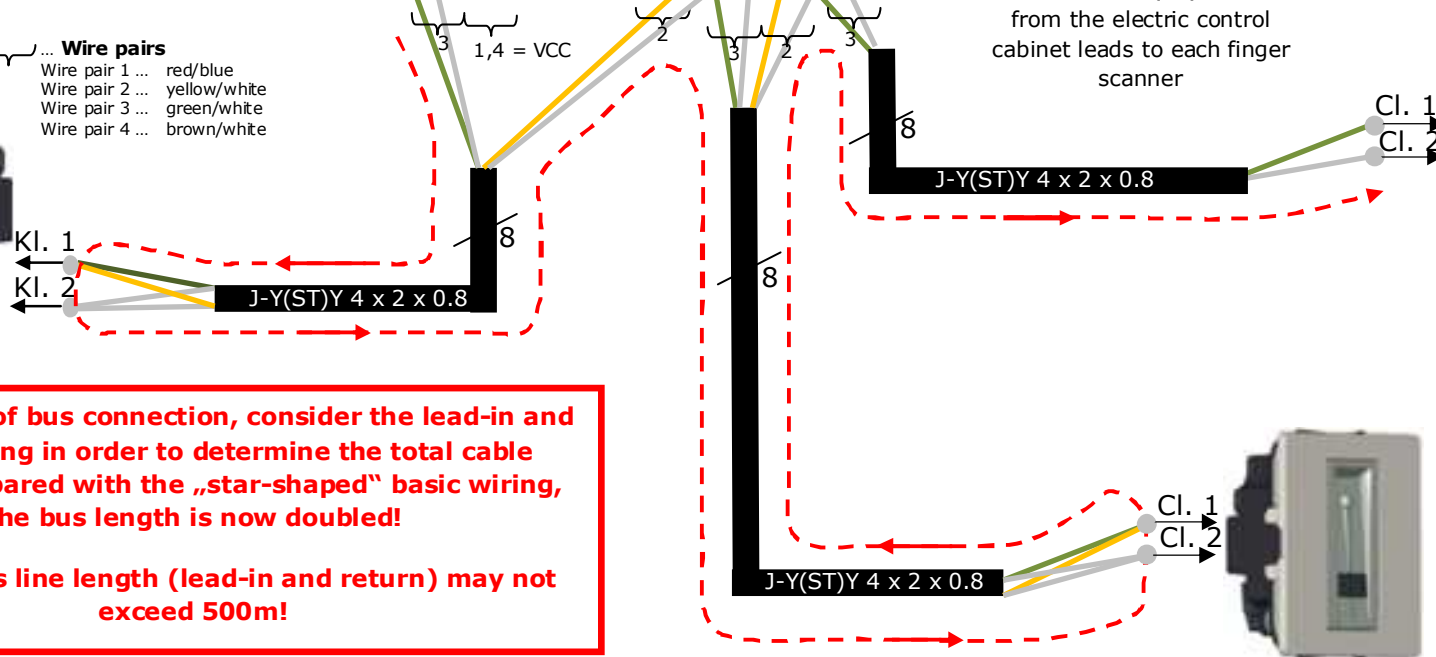
### Wire configuration

- 1 wire pair (green/white) for the RS485 bus + 1 reserve pair (yellow/white) for a „star-shaped“ basic wiring = wire lead-in and return allow to carry out a linear wiring (see diagram below).
- 1 wire pair (red/blue) for the power supply + 1 reserve pair (brown/white) to increase the cross section for cable lengths > 50m.



This type of cable routing allows to make a linear wiring out of a „star-shaped“ basic wiring (lead-in and return of the bus connection via a separate wire pair) for the RS 485 bus.

- ... Wire pairs
- Wire pair 1 ... red/blue
  - Wire pair 2 ... yellow/white
  - Wire pair 3 ... green/white
  - Wire pair 4 ... brown/white



For this kind of bus connection, consider the lead-in and return wiring in order to determine the total cable length! Compared with the „star-shaped“ basic wiring, the bus length is now doubled!

The total bus line length (lead-in and return) may not exceed 500m!