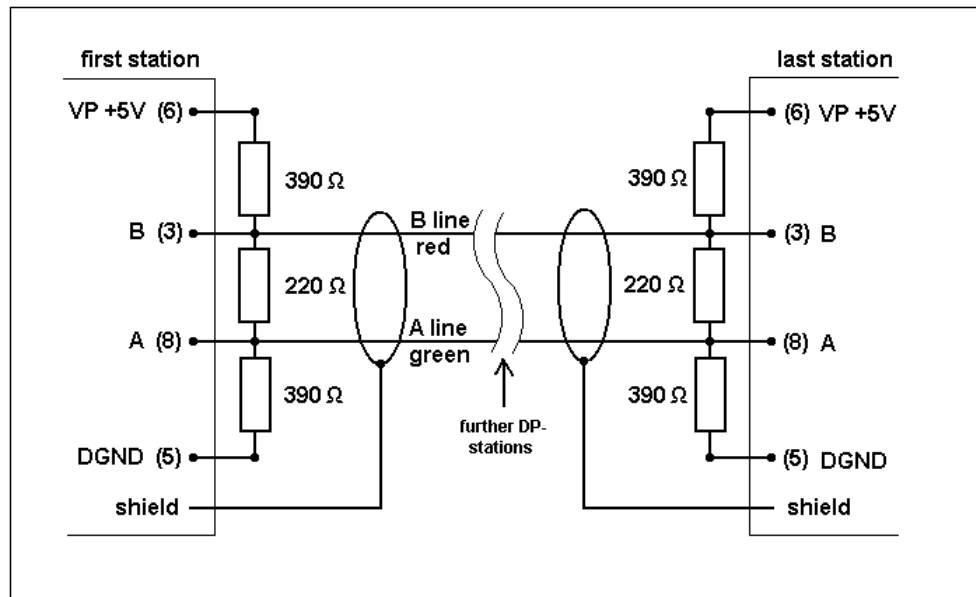


## How to do

### Profibus cable measuring HowToDo



Structure of a Profibus segment with min. 2 stations.

You need a resistance meter for measuring. Measuring area 2kOhm.  
Connector 1 is the first station. Shield is the metal housing of the connector.

1. Unplug all Profibus connectors
2. Measure on connector 1 between pin 3 and 8.
  - Good: around 110 Ohm (cable length is not included)
  - Bad: much lower \_ short circuit between A and B line.
  - > 200 Ohm \_ only one termination activated.
  - > 1 kOhm \_ no termination.
3. Measure on connector 1 between Pin 3 and 6.
  - Good: around 390 Ohm
  - Bad: much lower \_ connector 1 defective
  - much higher \_ no termination on connector 1 or connector 1 defective
4. Measure on connector 1 between pin 8 and 5
  - Good: around 390 Ohm
  - Bad: much lower \_ connector 1 defective
  - much higher \_ no termination on connector 1 or connector 1 defective
5. Measure on connector 1 between pin 3 and shield or between pin 8 and shield.
  - Good: endless or high \_ shield isolated from signal cables.
  - Bad: low ohm value \_ short circuit between shield and signal cables.
6. Measure on connector 2 between pin 3 and 6
  - Good: around 390 Ohm
  - Bad: much lower \_ connector 2 defective
  - much higher \_ no termination on connector 2 or connector 2 defective
7. Measure connector 2 between pin 5 and 8.
  - Good: around 390 Ohm
  - Bad: much lower \_ connector 2 defective
  - much higher \_ no termination on connector 2 or connector 2 defective