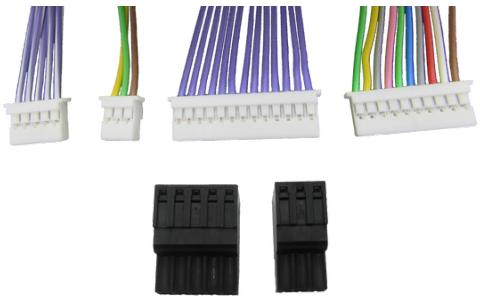
Cable set

# Cable set for E5x/B5x

Article number: 1515849





Picture similar

## Technical data

| | |
|---|---|
| **BLF 3.50/05/180 connector** | |
| Size | 17.5 x 22.7 x 9.0 mm |
| Pins | 5 |
| Product name | BLF 3.50/05/180 SN BK BX |
| **PAP-05V-S connector** | |
| Size | 12.0 x 8.0 x 5.8 mm |
| Cross Section | 0.25 $mm^2$ |
| Cable length | 50 cm |
| Pins | 5 |
| Product name | PAP-05V-S |
| **PAP-03V-S connector** | |
| Size | 8.0 x 8.0 x 5.8 mm |
| Cross Section | 0.25 $mm^2$ |
| Cable length | 50 cm |
| Pins | 3 |
| Product name | PAP-03V-S |
| **PAP-13V-S connector** | |
| Size | 28.0 x 8.0 x 5.8 mm |
| Cross Section | 0.25 $mm^2$ |
| Cable length | 50 cm |
| Pins | 13 |
| Product name | PAP-13V-S |
| **PAP-10V-S connector** | |
| Size | 22.0 x 8.0 x 5.8 mm |
| Cross Section | 0.25 $mm^2$ |
| Cable length | 50 cm |
| Pins | 10 |
| Product name | PAP-10V-S |
| **BLF 3.50/03/180 connector** | |
| Size | 10.5 x 22.7 x 9.0 mm |
| Pins | 3 |
| Product name | BLF 3.50/03/180 SN BK BX |

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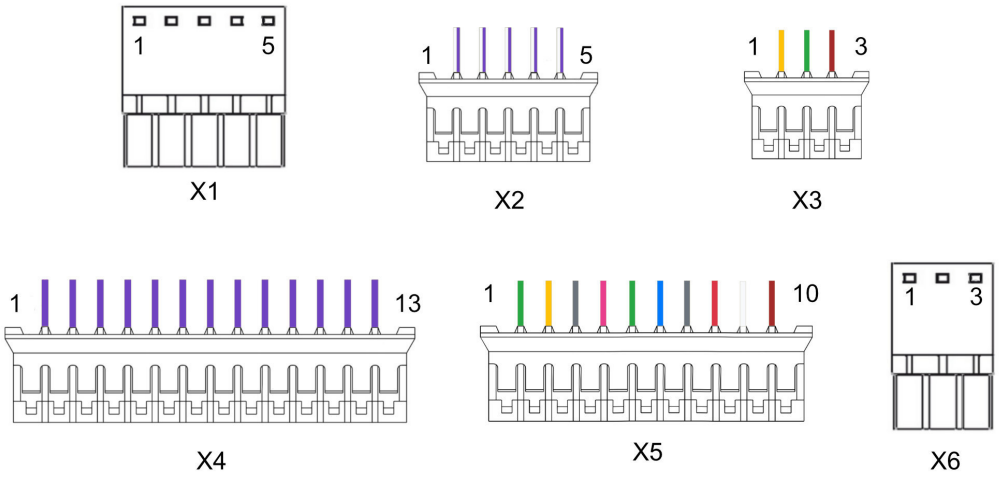
## Scheme




### mcDSA-B50/-Lp, B50-HC

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |

| X2 | Analog inputs | |
|---|---|---|
| 1 | Ain0 | Analog input 0 |
| 2 | res. | Reserved |
| 3 | Ain1 | Analog input 1 |
| 4 | res. | Reserved |
| 5 | res. | Reserved |

| X3 | CAN bus | |
|---|---|---|
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |

| X4 | Digital inputs/outputs | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | res. | Reserved |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |

| X5 | Hall and inc. encoder | |
|---|---|---|
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | res. | Reserved |
| 5 | res. | Reserved |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder, hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |

| X6 | Motor | |
|---|---|---|
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

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### mcDSA-B55/-Lp, B55-HC

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |

| X2 | Analog inputs | | |
|---|---|---|---|
| 1 | | +Ain0 | Analog input 0, plus |
| 2 | | -Ain0 | Analog input 0, minus |
| 3 | | +Ain1 | Analog input 1, plus |
| 4 | | -Ain1 | Analog input 1, minus |
| 5 | | res. | Reserved |

| X3 | CAN bus | |
|---|---|---|
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |

| X4 | Digital inputs/outputs | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | res. | Reserved |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |

| X5 | Hall and inc. encoder | |
|---|---|---|
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | res. | Reserved |
| 5 | res. | Reserved |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder, hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |

| X6 | Motor | |
|---|---|---|
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

### mcDSA-E50/-Lp, E50-HC, E50-EtherCAT/-HC

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |

| X2 | Analog inputs | | |
|---|---|---|---|
| 1 | | Ain0 | Analog input 0 |
| 2 | | res. | Reserved |
| 3 | | Ain1 | Analog input 1 |
| 4 | | res. | Reserved |
| 5 | | Ain2 | Analog Input 2 (5V) / PT1000 |

| X3 | CAN bus | |
|---|---|---|
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |

| X4 | Digital inputs/outputs | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | Din4 | Digital input 4 |
| 7 | Din5 | Digital input 5 |
| 8 | Din6 | Digital input 6 |
| 9 | Din7 | Digital input 7 |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |

| X5 | Hall and inc. encoder | |
|---|---|---|
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | A | Inc. encoder, A channel |
| 5 | res. | Reserved |
| 6 | B | Inc. encoder, B channel |
| 7 | res. | Reserved |
| 8 | Inx | Inc. encoder, index channel |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder, hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |

| X6 | Motor | |
|---|---|---|
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

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## mcDSA-E51-Lp

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |

| X2 | Analog inputs | | |
|---|---|---|---|
| 1 | | Ain0 | Analog input 0 |
| 2 | | res. | Reserved |
| 3 | | Ain1 | Analog input 1 |
| 4 | | res. | Reserved |
| 5 | | Ain2 | Analog Input 2 (5V) / PT1000 |

| X3 | CAN bus | |
|---|---|---|
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |

| X4 | Digital inputs/outputs | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | Din4 | Digital input 4 |
| 7 | Din5 | Digital input 5 |
| 8 | Din6 | Digital input 6 |
| 9 | Din7 | Digital input 7 |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |

| X5 | Hall sensors | |
|---|---|---|
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | res. | Reserved |
| 5 | res. | Reserved |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |

| X6 | Motor | |
|---|---|---|
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

## mcDSA-E52/-Lp, E52-HC, E52-EtherCAT/-HC

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |

| X2 | Analog inputs | | |
|---|---|---|---|
| 1 | | Ain0 | Analog input 0 |
| 2 | | res. | Reserved |
| 3 | | Ain1 | Analog input 1 |
| 4 | | res. | Reserved |
| 5 | | Ain2 | Analog Input 2 (5V) / PT1000 |

| X3 | CAN bus | |
|---|---|---|
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |

| X4 | Digital inputs/outputs | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | Din4 | Digital input 4 |
| 7 | Din5 | Digital input 5 |
| 8 | Din6 | Digital input 6 |
| 9 | Din7 | Digital input 7 |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |

| X5 | Encoder | |
|---|---|---|
| 1 | res. | Reserved |
| 2 | res. | Reserved |
| 3 | res. | Reserved |
| 4 | +Sin | Encoder, plus sine signal |
| 5 | -Sin | Encoder, minus sine signal |
| 6 | +Cos | Encoder, plus cosine signal |
| 7 | -Cos | Encoder, minus cosine signal |
| 8 | res. | Reserved |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |

| X6 | Motor | |
|---|---|---|
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

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## mcDSA-E55/-Lp, E55-HC, E55-EtherCAT/PROFINET/PN/SSI/-HC

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |
| **X2** | **Analog inputs** | |
| 1 | +Ain0 | Analog input 0, plus |
| 2 | -Ain0 | Analog input 0, minus |
| 3 | +Ain1 | Analog input 1, plus |
| 4 | -Ain1 | Analog input 1, minus |
| 5 | Ain2 | Analog Input 2 (5V) / PT1000 |
| **X3** | **CAN bus** | |
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |
| **X4** | **Digital inputs/outputs** | |
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | Din4 | Digital input 4 |
| 7 | Din5 | Digital input 5 |
| 8 | Din6 | Digital input 6 |
| 9 | Din7 | Digital input 7 |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |
| **X5** | **Hall and inc. encoder** | |
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | A | Inc. encoder, A channel |
| 5 | /A | Inc. encoder, A channel inverted |
| 6 | B | Inc. encoder, B channel |
| 7 | /B | Inc. encoder, B channel inverted |
| 8 | Inx | Inc. encoder, index channel |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder, hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |
| **X6** | **Motor** | |
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

## mcDSA-E56-Lp

| X1 | Supply | |
|---|---|---|
| 1 | FE | Functional earth |
| 2 | +Up | Power supply voltage |
| 3 | GND | Ground for power supply voltage |
| 4 | +Ue24V | Electronic supply voltage |
| 5 | GND | Ground for electronic supply voltage |
| **X2** | **Analog inputs** | |
| 1 | +Ain0 | Analog input 0, plus |
| 2 | -Ain0 | Analog input 0, minus |
| 3 | +Ain1 | Analog input 1, plus |
| 4 | -Ain1 | Analog input 1, minus |
| 5 | Ain2 | Analog Input 2 (5V) / PT1000 |
| **X3** | **CAN bus** | |
| 1 | CAN Hi | CAN High |
| 2 | CAN Lo | CAN Low |
| 3 | res. | Reserved |
| **X4** | **Digital inputs/outputs** | |
| 1 | res. | Reserved |
| 2 | Din0 | Digital input 0 |
| 3 | Din1 | Digital input 1 |
| 4 | Din2 | Digital input 2 |
| 5 | Din3 | Digital input 3 |
| 6 | Din4 | Digital input 4 |
| 7 | Din5 | Digital input 5 |
| 8 | Din6 | Digital input 6 |
| 9 | Din7 | Digital input 7 |
| 10 | Dout0 | Digital output 0 |
| 11 | Dout1 | Digital output 1 |
| 12 | Dout2 | Digital output 2 |
| 13 | Dout3 | Digital output 3 |
| **X5** | **Hall sensors** | |
| 1 | H1 | Hall sensor 1 |
| 2 | H2 | Hall sensor 2 |
| 3 | H3 | Hall sensor 3 |
| 4 | res. | Reserved |
| 5 | res. | Reserved |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | +U5V | 5V output voltage for sensor supply<br>Sensors: hall |
| 10 | GND | Ground for sensor supply<br>Notice: don't connect with system GND |
| **X6** | **Motor** | |
| 1 | Ma | Motor phase A |
| 2 | Mb | Motor phase B |
| 3 | Mc | Motor phase C |

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**mcDSA-E57/-Lp, E57-HC, E57-EtherCAT/PROFINET/PN/SSI/-HC**

| | | | |
|---|---|---|---|
| **X1** | **Supply** | | |
| 1 | FE | | Functional earth |
| 2 | +Up | | Power supply voltage |
| 3 | GND | | Ground for power supply voltage |
| 4 | +Ue24V | | Electronic supply voltage |
| 5 | GND | | Ground for electronic supply voltage |
| **X2** | **Analog inputs** | | |
| 1 | | +Ain0 | Analog input 0, plus |
| 2 | | -Ain0 | Analog input 0, minus |
| 3 | | +Ain1 | Analog input 1, plus |
| 4 | | -Ain1 | Analog input 1, minus |
| 5 | | Ain2 | Analog Input 2 (5V) / PT1000 |
| **X3** | **CAN bus** | | |
| 1 | | CAN Hi | CAN High |
| 2 | | CAN Lo | CAN Low |
| 3 | | res. | Reserved |
| **X4** | **Digital inputs/outputs** | | |
| 1 | | res. | Reserved |
| 2 | | Din0 | Digital input 0 |
| 3 | | Din1 | Digital input 1 |
| 4 | | Din2 | Digital input 2 |
| 5 | | Din3 | Digital input 3 |
| 6 | | Din4 | Digital input 4 |
| 7 | | Din5 | Digital input 5 |
| 8 | | Din6 | Digital input 6 |
| 9 | | Din7 | Digital input 7 |
| 10 | | Dout0 | Digital output 0 |
| 11 | | Dout1 | Digital output 1 |
| 12 | | Dout2 | Digital output 2 |
| 13 | | Dout3 | Digital output 3 |
| **X5** | **Encoder** | | |
| 1 | | res. | Reserved |
| 2 | | res. | Reserved |
| 3 | | res. | Reserved |
| 4 | | +Sin | Encoder, plus sine signal |
| 5 | | -Sin | Encoder, minus sine signal |
| 6 | | +Cos | Encoder, plus cosine signal |
| 7 | | -Cos | Encoder, minus cosine signal |
| 8 | | res. | Reserved |
| 9 | | +U5V | 5V output voltage for sensor supply<br>Sensors: encoder |
| 10 | | GND | Ground for sensor supply<br>Notice: don't connect with system GND |
| **X6** | **Motor** | | |
| 1 | Ma | | Motor phase A |
| 2 | Mb | | Motor phase B |
| 3 | Mc | | Motor phase C |

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