

EEZ BB3 wire harness

- [Cooling fan cable](#)
- [MCU board power cable](#)
- [Dual AC/DC power module AC input](#)
- [Single AC/DC power module AC input](#)
- [Power module DC input](#)
- [Power module Protective Earth](#)

Cooling fan cable

Total length 300 (± 5) mm
Type 3 wire, already mounted on the cooling fan
Fan: TME: [MF80251V3-1000U-G99](#)
Mouser: N/A



Connectors

Side A	X4, X5	Side B	N/A
Housing type	Receptacle, 0.1"	Housing type	N/A
TME	MX-22-01-3037	TME	N/A
Mouser	538-22-01-3037	Mouser	N/A



Pin	Female	Pin	N/A
Pin quantity	3	Pin quantity	0
TME	MX-0850-0114	TME	N/A
Mouser	538-08-50-0114	Mouser	N/A



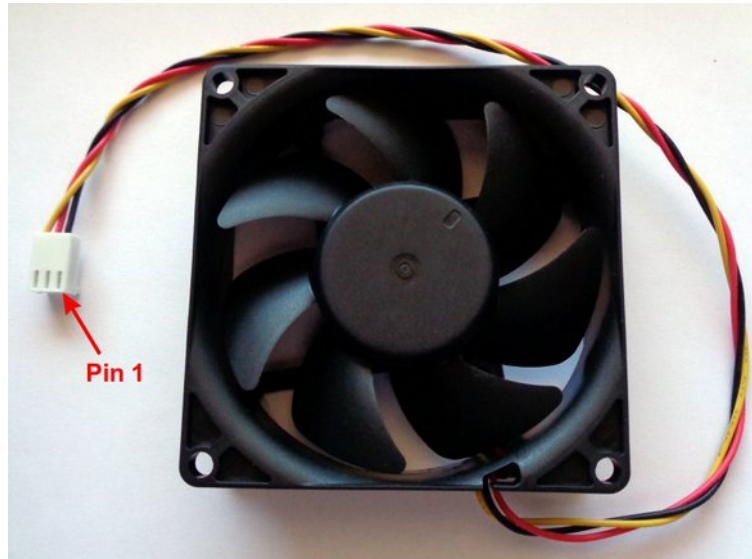
Additional info

Fan is already equipped with cable. Therefore it only has to be terminated with the connector.

Wiring

Name	Position	Color / description
GND	1	Black
+12 Vdc	2	Red
Sense	3	Yellow

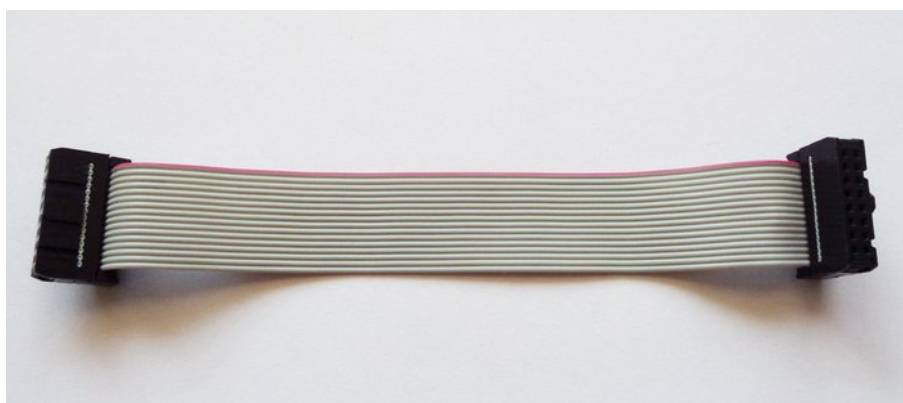
Picture



MCU board power cable

Length	75 or 150 mm
Type	Ribbon cable with IDC connectors; 16x28AWG
TME	FC16150-S
Mouser	N/A

Picture



Pinout



Name	Position	Description
PE	1	Protective Earth
Reserved	2	
+12 V	3	Regulated +12 V output
+12 V	4	Regulated +12 V output

+5 V	5	Regulated +5 V output
+5 V	6	Regulated +5 V output
Gnd	7	
Gnd	8	
Gnd	9	
Reserved	10	(+Vaux)
PWR_SSTART	11	Triac control (soft-start)
PWR_DIRECT	12	Triac control (continuous power)
SSCL	13	I2C clock
SSDA	14	I2C data
NFAULT	15	Fault
+3V3	16	MCU board LDO output

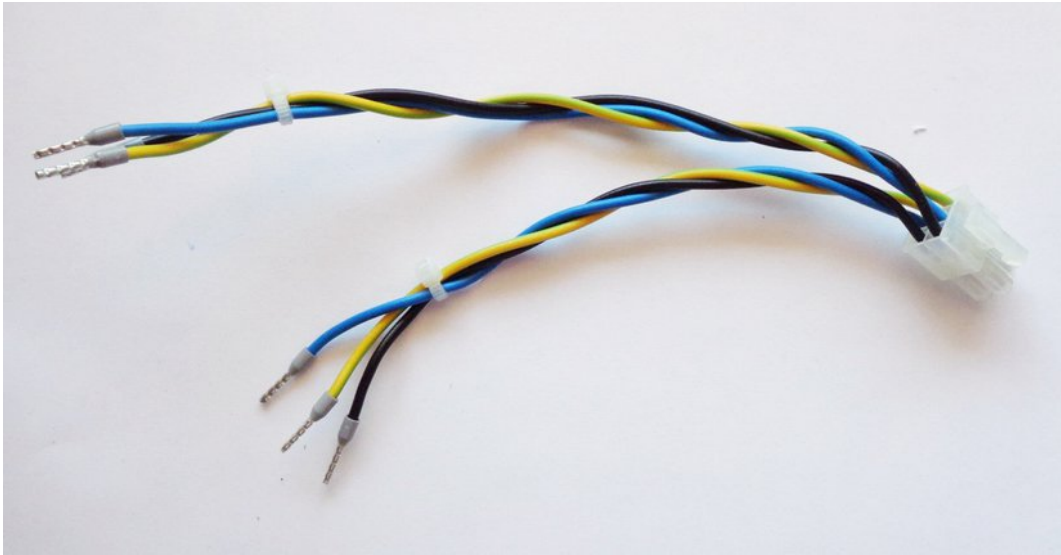
Dual AC/DC power module AC input

Length	230 (± 5) mm + 250 (± 5) mm
Type	0.75 mm ² (18 AWG) single wire, stranded, min. 250 VAC
TME	Brown: H05VK075BR , Blue: H05VK075BL , Green-Yellow: H05VK075GN/GE
Mouser	Brown: 602-3055-100-07 , Blue: 602-3055-100-06 , Green-yellow: 602-3055-100-28

Connectors

Side A	AUX PS (X1)	Side B	AC/DC module power output
Housing type	Male, Mini-Fit Jr.	Housing type	Ferrule, single wire
TME	MX-39-01-2065	TME	H0.75/14D/GY
Mouser	538-39-01-2065	Mouser	845-FID1806GRM
			
Pin	Female	Quantity	6
Pin quantity	6		
TME	MX-5556-T3L		
Mouser	538-39-00-0078		
			

Picture



Single AC/DC power module AC input

Length	250 (± 5) mm
Type	0.75 mm ² (18 AWG) single wire, stranded, min. 250 VAC
TME	Brown: H05VK075BR , Blue: H05VK075BL , Green-Yellow: H05VK075GN/GE
Mouser	Brown: 602-3055-100-07 , Blue: 602-3055-100-06 , Green-yellow: 602-3055-100-28

Connectors

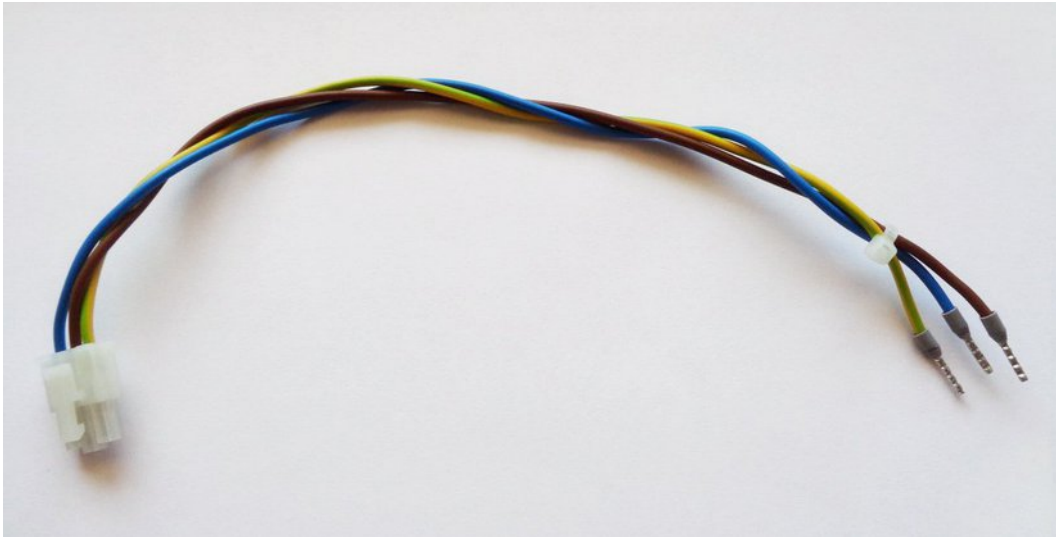
Side A	AUX PS (X2)	Side B	AC/DC module power output
Housing type	Male, Mini-Fit Jr.	Housing type	Ferrule, single wire
TME	MX-5557-03R2	TME	H0.75/14D/GY
Mouser	538-39-01-4030	Mouser	845-FID1806GRM



Pin	Female	Quantity	3
Pin quantity	3		
TME	MX-5556-T3L		
Mouser	538-39-00-0078		





Picture



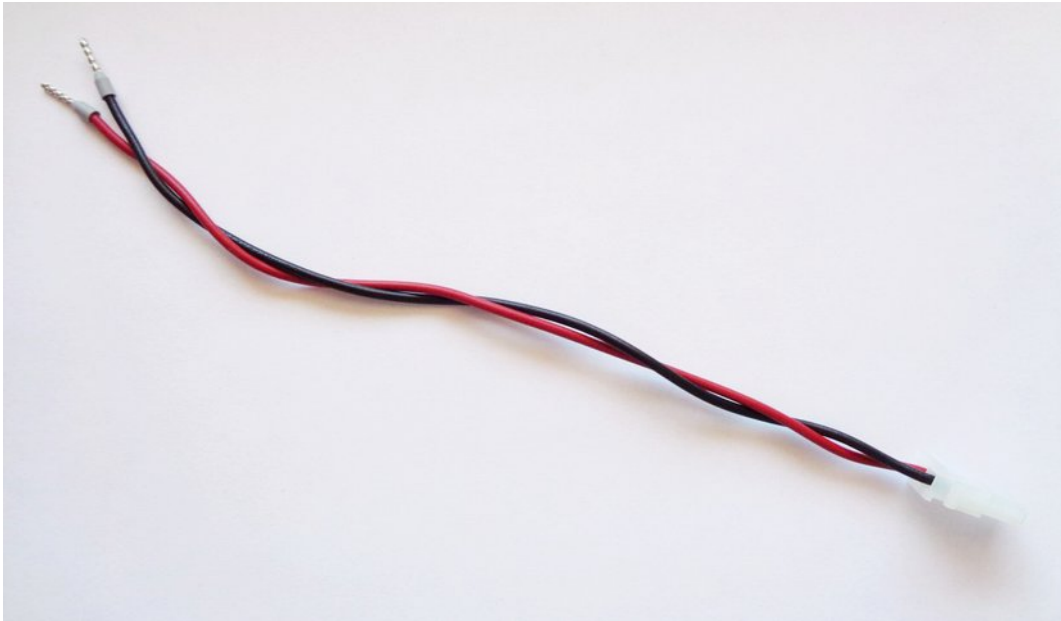
Power module DC input

Length	350 (± 5) mm
Type	0.75 mm ² (18 AWG) single wire, stranded, min. 250 VAC
TME	Red: H05VK075RT , Black: H05VK075SW
Mouser	Red: 602-3055-100-03 , Black: 602-3055-100-02

Connectors

Side A	Power module (X1)	Side B	AC/DC module power output
Housing type	Male, Mini-Fit Jr.	Housing type	Ferrule, single wire
TME	MX-39-01-3022	TME	H0.75/14D/GY
Mouser	538-39-01-3022	Mouser	845-FID1806GRM
			
Pin	Female	Quantity	2
Pin quantity	2		
TME	MX-5556-T3L		
Mouser	538-39-00-0078		

Picture



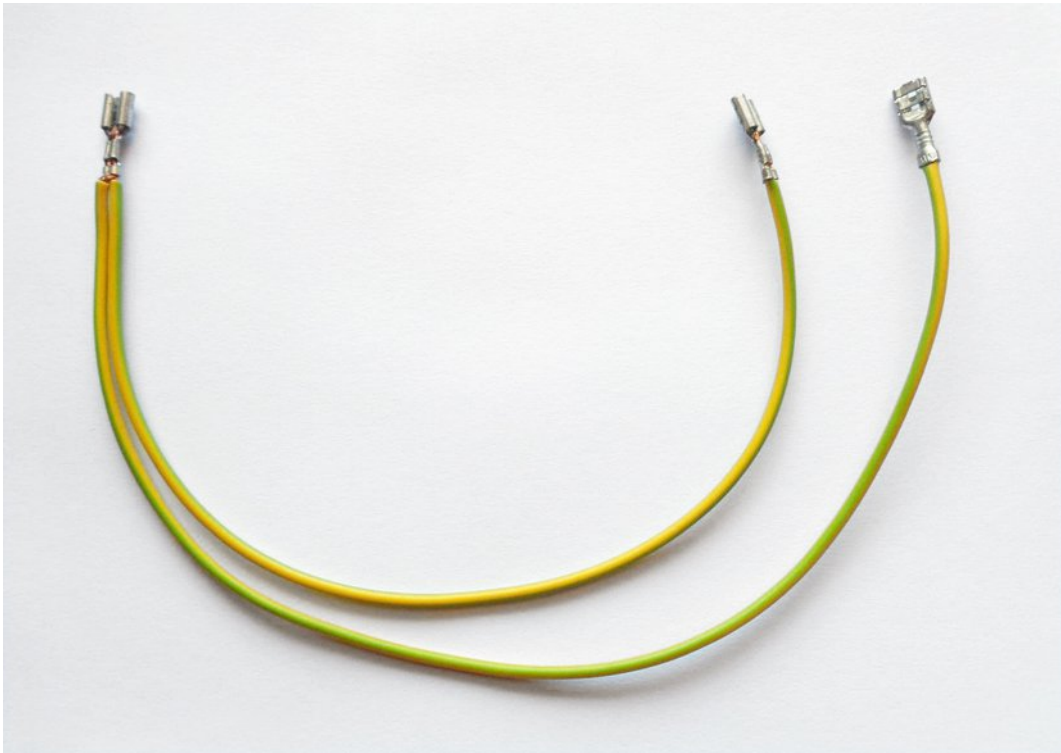
Power module Protective Earth

Length:	Single: 300 (± 5) mm Dual: 230 + 270 (± 5) mm
Type:	0.75 mm ² (18 AWG) single wire, stranded, min. 250 VAC
TME	Green-Yellow: H05VK075GN/GE
Mouser	Green-yellow: 602-3055-100-28

Connectors			
Side A	AUX-PS J2, J3 or J4	Side B	Power module PE input (J1)
Housing type	Female quick disconnect	Housing type	Female quick disconnect
TME	ST-004/2 or BM01148	TME	ST-004/2 or BM01148
Mouser	571-60196-3	Mouser	571-60196-3



Picture



BOM

The following BOM includes items for connecting three power modules.

Type	Part (Mouser)	Part (TME)	Total
3-pin 0.1" receptacle	538-22-01-3037	MX-22-01-3037	1



6-pin receptacle Mini-Fit Jr.	538-39-01-2065	MX-39-01-2065	1	
3-pin receptacle Mini-Fit Jr.	538-39-01-4030	MX-5557-03R2	1	
2-pin receptacle Mini-Fit Jr.	538-39-01-3022	MX-39-01-3022	3	
0.1" pin	538-08-50-0114	MX-0850-0114	3	
Mini-Fit Jr. pin	538-39-00-0078	MX-5556-T3L	15	
Female quick disconnect	571-60196-3	ST-004/2 or BM01148	6	
0.75 cm ² ferrule	845-FID1806GRM	H0.75/14D/GY	15	
0.75 cm ² cable (Brown)	602-3055-100-07	H05VK075BR	0.73 m	
0.75 cm ² cable (Blue)	602-3055-100-06	H05VK075BL	0.73 m	
0.75 cm ² cable (Red)	602-3055-100-03	H05VK075RT	1.05 m	
0.75 cm ² cable (Black)	602-3055-100-02	H05VK075SW	1.05 m	
0.75 cm ² cable (Yellow-Green)	602-3055-100-28	H05VK075GN/GE	1.49 m	
12 Vdc cooling fan	N/A	MF80251V3-1000U-G99	1	
IDC ribbon cable	N/A	FC16150-S	0.15 m	
Polyamide cable tie; L: 100 mm; W: 2.5 mm	N/A	BMB1025	6	