

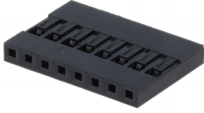
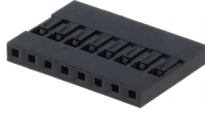

EEZ PSU H24005 wire harness

- [Ethernet cable](#)
- [Cooling fan cable](#)
- [AUX temperature sensor cable](#)
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1. Ethernet cable

Total length	250 (± 5) mm
Type	4 pairs Ethernet, <i>stranded wire</i>
TME	HELUKAT100-FTP-FP or e.g. cut CA00600.00C01 to size
Farnell	1602385 or e.g. cut 1734894 to size

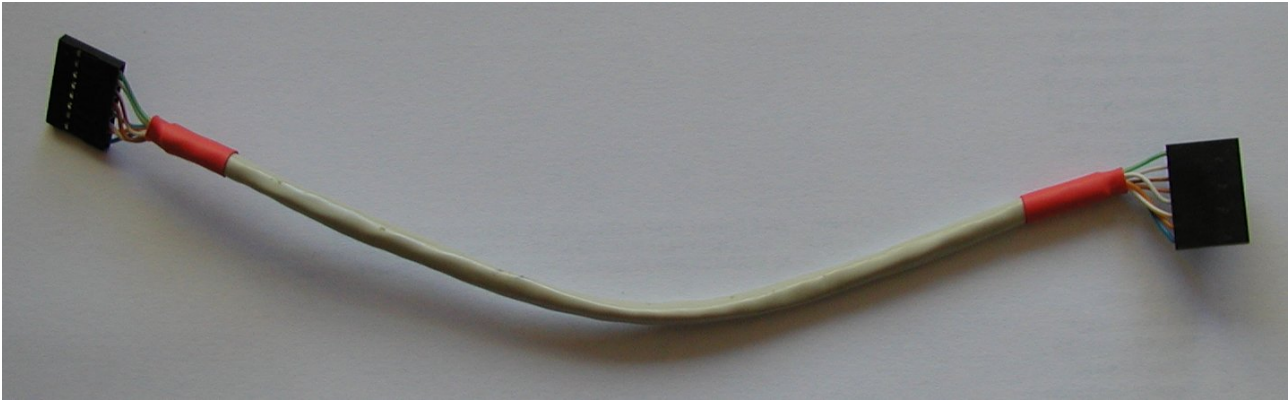
Connectors

Side A	X8	Side B	X18
Housing type	Receptacle, 0.1"	Housing type	See side A
TME	NSR-08	TME	See side A
Farnell	865667	Farnell	See side A
			
Pin:	Female	Pin	See side A
Pin quantity	8	Pin quantity	7
TME	NDR-T	TME	See side A
Farnell	1022219	Farnell	See side A
			
		Polarising key	Position #3
		TME	NSDR-KEY
		Farnell	512023
			

Wiring

Name	Position	Color / description	Position	Color / description
LED link	1	Brown-white	1	Brown-white
LED act	2	Brown	2	Brown
Shield	3	Blue-white	3	Polarising key
RX+	4	Orange-white	4	Orange-white
RX-	5	Orange	5	Orange
TX+	6	Green-white	6	Green-white
TX-	7	Green	7	Green
+3.3V	8	Blue	8	Blue

Picture



2. Cooling fan cable

Total length 100 (± 5) mm
 Type 3 wire, already mounted on the cooling fan
 Fan: TME: [MB60251V1-G99](#)



Connectors

Side A	X6	Side B	N/A
Housing type	Receptacle, 0.1"	Housing type	N/A
TME	MX-6471-031	TME	N/A
Farnell	143127	Farnell	N/A



Pin	Female	Pin	N/A
Pin quantity	3	Pin quantity	0
TME	MX-0850-0114	TME	N/A
Farnell	2063734	Farnell	N/A



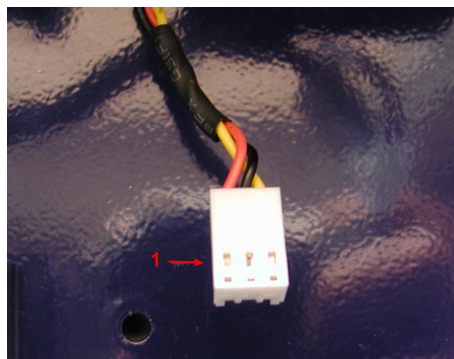
Additional info

Fan is already equipped with cable that has to be cut to size and terminated with connector

Wiring

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

Picture



3. AUX temperature sensor cable

Total length	145 (± 5) mm
Type	Max. 0.35 mm ² single wire, stranded
TME	E.g. brown: LGY0.35/25-BR (or any other color)
Farnell	E.g. brown: 2425402 (0.22 mm ²)
NTC	TME: NTCLE100E3103JB0 , Farnell: 1187031
Wire	TME: LGY0.35/25-BR , Farnell: 2425402

Connectors

Side A	X17	Side B	N/A
Housing type	Receptacle 0.1"	Housing type	N/A
TME	MX-6471-021	TME	N/A
Farnell	143126	Farnell	N/A



Pin	Female	Pin	N/A
Pin quantity	2	Pin quantity	0
TME	MX-0850-0114	TME	N/A
Farnell	2063734	Farnell	N/A



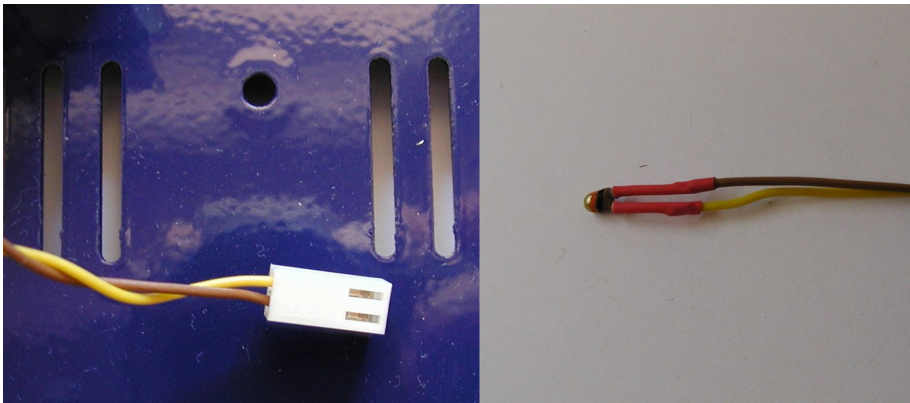
Additional info

The temperature sensor is already equipped with cable that has to be terminated with connector

Wiring

Name	Position	Color / description
MCU_VCC	1	Any color
NTC	2	Any color

Picture



4. AC switch patch cables

Total length	45 (± 5) mm
Type	0.75 mm² singe wire, stranded, min. 250 VAC
TME	Brown: LGY0.75/25-BR , Blue: LGY0.75/25-BL
Farnell	Brown: 2528103 , Blue: 2528092

Connectors

Side A	AC output	Side B	AC Switch input
Pin	Female quick disconnect	Pin	See side A
Pin quantity	2	Pin quantity	See side A
TME	BM01148 or ST-003/2	TME	See side A
Farnell	3625424	Farnell	See side A



Additional info

Required for Schurter [4304.6090](#) IEC inlet (C14, 6765, 10A)

Wiring1

Name	Position	Color / description	Position	Color / description
Line	1	Brown	1	Brown

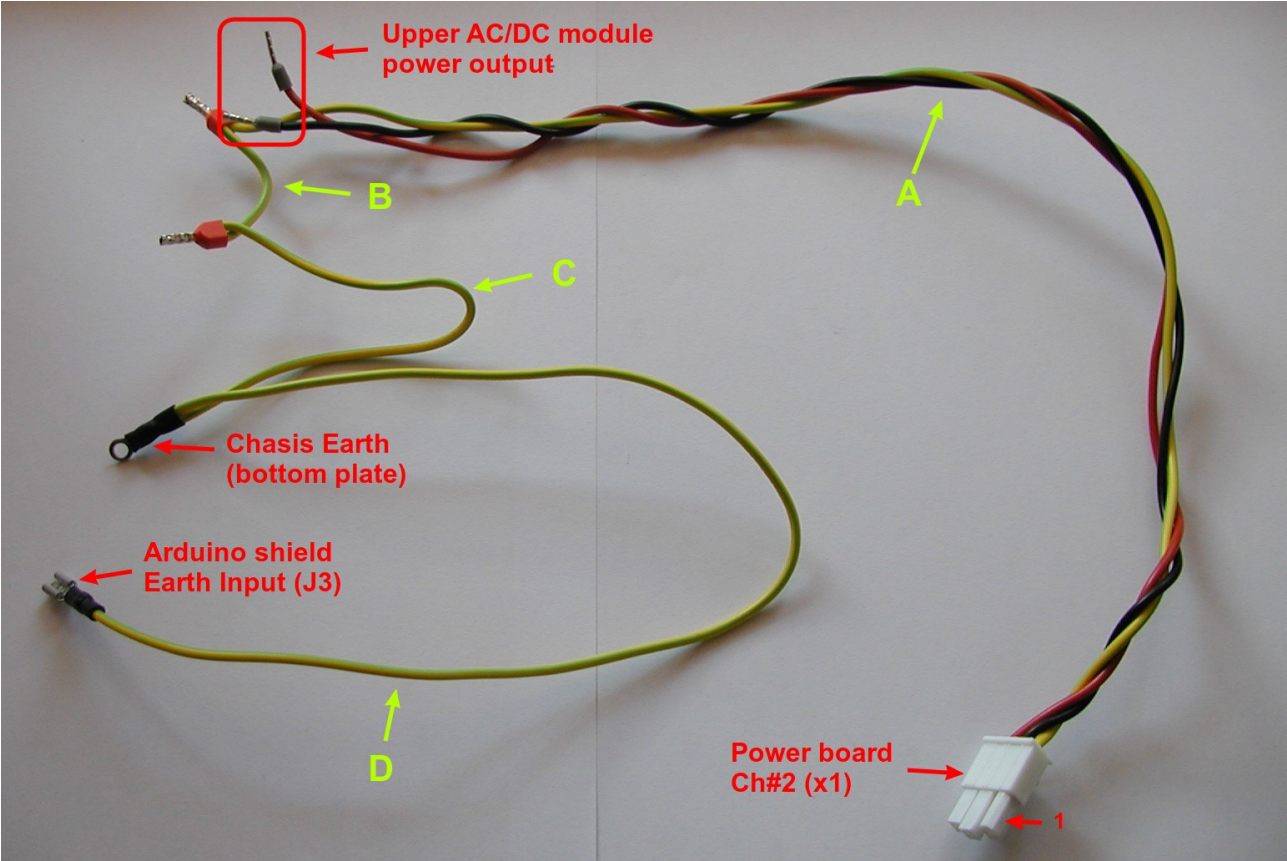
Wiring2

Name	Position	Color / description	Position	Color / description
Neutral	1	Blue	1	Blue

Picture



5. Cable set #1

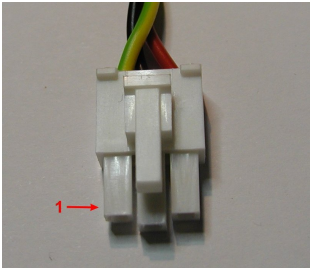


5.1. Section A: Power board (CH2) X1 cable

Length	420 (± 5) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	Red: LGY0.75/25-RD , Black: LGY0.75/25-BK Green-Yellow: LGY0.75/25-YL/GR
Farnell	Red: 2528175 , Black: 2528082 , Green-Yellow: 2528140

Connectors

Side A	Power board X1 (Ch2)	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
Farnell	9963480	Farnell	841195



Pin	Female	Quantity	2
Pin quantity	3	Housing type	Ferrule, twin entry
TME	MX-5556-T3L	TME	H0.75/15D2/GY
Farnell	9732675	Farnell	1121751



Quantity 1

Wiring

Name	Position	Color / description	Position	Color / description
Earth	1	Green-Yellow	N/A	Ferrule, twin entry
Vin-	2	Black	N/A	Ferrule
Vin+	3	Red	N/A	Ferrule

5.2. Section B: AC/DC module Earth

Length	70 (± 1) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	LGY0.75/25-YL/GR
Farnell	2528140

Connectors

Side A	AC/DC module Earth output	Side B	AC/DC module Earth (in)
Housing type	Use twin entry ferrule, See B side, <i>Section A</i>	Housing type	Ferrule, twin entry
		TME	H0.75/15D2/GY
		Farnell	1121751
		Quantity	1



5.3. Section C: Chassis Earth

Length:	170 (± 5) mm
Type:	0.75 mm ² single wire, stranded, min. 250 VAC
TME	LGY0.75/25-YL/GR
Farnell	2528140

Connectors

Side A	AC/DC module Earth (in)	Side B	Chassis Earth (bottom plate)
Housing type	Use twin entry ferrule, See B side, <i>Section B</i>	Housing type	Non-insulated, Ring terminal, 3 mm
		TME	BM 91103
		Farnell	7356528
		Quantity	1



5.4. Section D: Arduino Shield Earth

Length: 350 (± 5) mm
Type: 0.75 mm² single wire, stranded, min. 250 VAC
TME [LGY0.75/25-YL/GR](#)
Farnell [2528140](#)

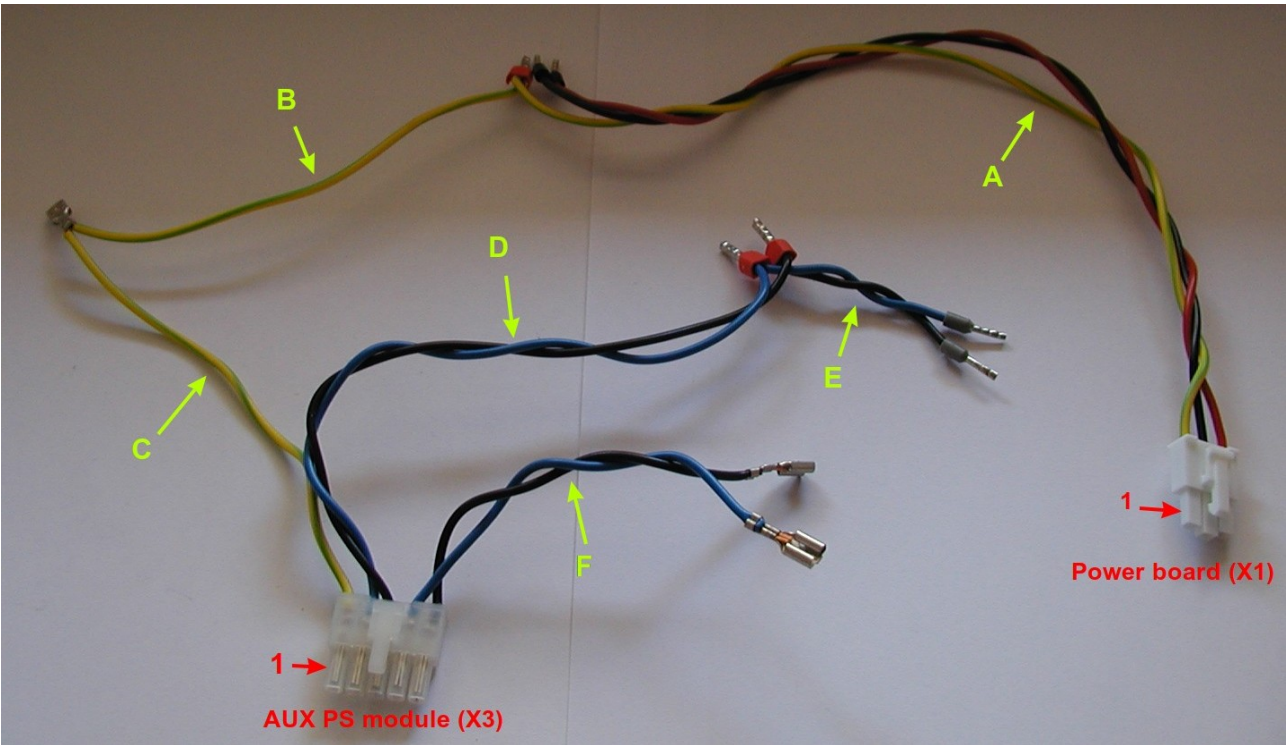
Connectors

Side A	Chassis Earth (bottom plate)	Side B	Arduino Shield Earth input (J3)
Housing type	Use ring terminal, See B side, Section C	Housing type	Female quick disconnect
		TME	BM01148 or ST-003/2
		Farnell	3625424



Quantity 1

6. Cable set #2



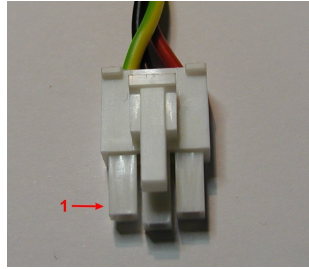
6.1. Section A: Power board X1 cable

Length 330 (± 5) mm
Type 0.75 mm² single wire, stranded, min. 250 VAC
TME Red: [LGY0.75/25-RD](#), Black: [LGY0.75/25-BK](#)
Green-Yellow: [LGY0.75/25-YL/GR](#)
Farnell Red: [2528175](#), Black: [2528082](#), Green-Yellow: [2528140](#)

Connectors

Side A	Power board X1 (Ch1)	Side B	AC/DC module power output
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Housing type Male, Mini-Fit Jr.
TME [MX-5557-03R2](#)
Farnell [9963480](#)



Housing type Ferrule, single wire
TME [H0.75/14D/GY](#)
Farnell [841195](#)



Pin	Female	Quantity	2
Pin quantity	3	Housing type	Ferrule, twin entry
TME	MX-5556-T3L	TME	H0.75/15D2/GY
Farnell	9732675	Farnell	1121751



Quantity 1

Wiring:

Name	Position	Color / description	Position	Color / description
Earth	1	Green-Yellow	N/A	Ferrule, twin entry
Vin-	2	Black	N/A	Ferrule
Vin+	3	Red	N/A	Ferrule

6.2. Section B: AC/DC module Earth

Length 150 (± 5) mm
Type 0.75 mm² single wire, stranded, min. 250 VAC
TME [LGY0.75/25-YL/GR](#)
Farnell [2528140](#)

Connectors



Side A	AC/DC power module Earth (in)	Side B	AC inlet Earth
Housing type	Use twin entry ferrule, See B	Housing type	Female quick disconnect
	side from <i>Section A</i>	Quantity	1
		TME	BM01148 or ST-003/2
		Farnell	3625424



6.3. Section C: AUX PS module Earth

Length	150 (± 5) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	LGY0.75/25-YL/GR
Farnell	2528140

Connectors

Side A	AC inlet Earth	Side B	AUX PS module (X3)
Housing type	Use Female quick disconnect terminal, See B side, <i>Section B</i>	Housing type	Male, Mini-Fit Jr.
		TME	MX-5557-05R2
		Farnell	9963502
			
		Pin	Female
		Pin quantity	5
		TME	MX-5556-T3L
		Farnell	9732675
			

Wiring:

Name	Position	Color / description	Position	Color / description
–	–	Female quick disconnect	1	Earth

6.4. Section D: Lower AC/DC module power input

Length	200 (± 5) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	Brown: LGY0.75/25-BR , Blue: LGY0.75/25-BL
Farnell	Brown: 2528103 , Blue: 2528092

Connectors

Side A	AUX PS module (X3)	Side B	Lower AC/DC module power input
Housing type	See Side B, <i>Section C</i>	Housing type	Ferrule, twin entry
TME	-	TME	H0.75/15D2/GY
Farnell	-	Farnell	1121751



Pin	Female	Quantity	2
Pin quantity	2		
TME	MX-5556-T3L		
Farnell	9732675		

**Wiring:**

Name	Position	Color / description	Position	Color / description
Neutral	2	Blue	N/A	Ferrule, twin entry
Line	3	Brown	N/A	Ferrule, twin entry

6.5. Section E: Upper AC/DC module power input

Length	75 (± 1) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	Brown: LGY0.75/25-BR , Blue: LGY0.75/25-BL
Farnell	Brown: 2528103 , Blue: 2528092

Connectors

Side A	Lower AC/DC module power input	Side B	Upper AC/DC module power input
Housing type	Use twin entry ferrule, See B side, <i>Section D</i>	Housing type	Ferrule, single wire
		TME	H0.75/14D/GY
		Farnell	1121751



Quantity	2
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6.6. Section F: AUX PS module power input

Length	110 (± 5) mm
Type	0.75 mm ² single wire, stranded, min. 250 VAC
TME	Brown: LGY0.75/25-BR , Blue: LGY0.75/25-BL
Farnell	Brown: 2528103 , Blue: 2528092

Connectors

Side A	AUX PS module (X3)	Side B	Lower AC/DC module power input
Housing type	See Side B, <i>Section C</i>	Housing type	Female quick disconnect
TME	-	TME	BM01148 or ST-003/2
Farnell	-	Farnell	3625424



Pin	Female	Quantity	2
Pin quantity	2		
TME	MX-5556-T3L		
Farnell	9732675		



Wiring:

Name	Position	Color / description	Position	Color / description
Neutral	4	Blue	N/A	Female quick disconnect
Line	5	Brown	N/A	Female quick disconnect

7. Pre-assembled cables

7.1. Arduino shield power cable

Length	300 mm
Type	Ribbon cable with IDC connectors; 10x28AWG
TME	FC10300-0
Farnell	N/A

Picture



Pinout:

Name	Position	Description
Gnd	1	Ground
Gnd	2	Ground
PWR_DIRECT	3	Triac control (continuous power)
PWR_SSTART	4	Triac control (soft-start)
FAN_SENSE	5	Tachometer output
FAN_PWM	6	Fan PWM speed control
DOUT2	7	Power relay control
+5V	8	+5 V for Arduino Shield
Gnd	9	Ground
+5V	10	+5 V for Arduino Shield

7.2. Arduino USB cable






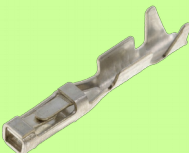

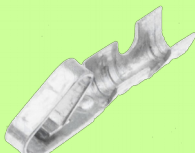


Length	300 or 500 mm
Type	USB Micro to 5-pin receptacle cable
TME	N/A
Farnell	N/A
AliExpress	e.g. High Quality 50CM micro usb 5pin male to 1x 5Pin Female 0.1" USB header PCB motherboard cable



Pinout:

Name	Position	Color	Description
VCC	1	Red	+5 Vdc
D-	2	White	Data -
D+	3	Green	Data +
GND	4	Black	Ground
Shield	5	Black	Shield

8. BOM

Type	Part (Farnell)	Part (TME)	Total	
Receptacle	865667	NSR-08	2	
Receptacle	143127	MX-6471-031	1	
Receptacle	143126	MX-6471-021	1	
Receptacle Mini-Fit Jr.	9963480	MX-5557-03R2	2	
Receptacle Mini-Fit Jr.	9963502	MX-5557-05R2	1	
Pin	1022219	NDR-T	15	
Polarising key	512023	NSDR-KEY	1	
Pin	2063734	MX-0850-0114	5	
Pin	9732675	MX-5556-T3L	11	
Female quick disconnect	3625424	BM01148 or ST-003/2	6	

EEZ PSU H24005 Wire harness

Ferrule	841195	H0.75/14D/GY	6	
Ferrule, twin entry	1121751	H0.75/15D2/GY	5	
Ring terminal	7356528	BM 91103	1	
Cat5e cable	1602385	HELUKAT100-FTP-FP	0.25 m	
0.75 cm ² cable (Brown)	2528103	LGY0.75/25-BR	0.43 m	
0.75 cm ² cable (Blue)	2528092	LGY0.75/25-BL	0.43 m	
0.75 cm ² cable (Red)	2528175	LGY0.75/25-RD	0.75 m	
0.75 cm ² cable (Black)	2528082	LGY0.75/25-BK	0.75 m	
0.75 cm ² cable (Yellow-Green)	2528140	LGY0.75/25-YL/GR	1.64 m	
0.35 cm ² cable	2425402	LGY0.35/25-BR	0.29 m	
12 Vdc cooling fan	—	MB60251V1-G99	1	
NTC	1187031	NTCLE100E3103JB0	1	
IDC ribbon cable	—	FC10300-0	0.3 m	
USB Micro cable	Shenzhen Wonderwing Electronics Ltd. or search e.g. Aliexpress		0.5 m	