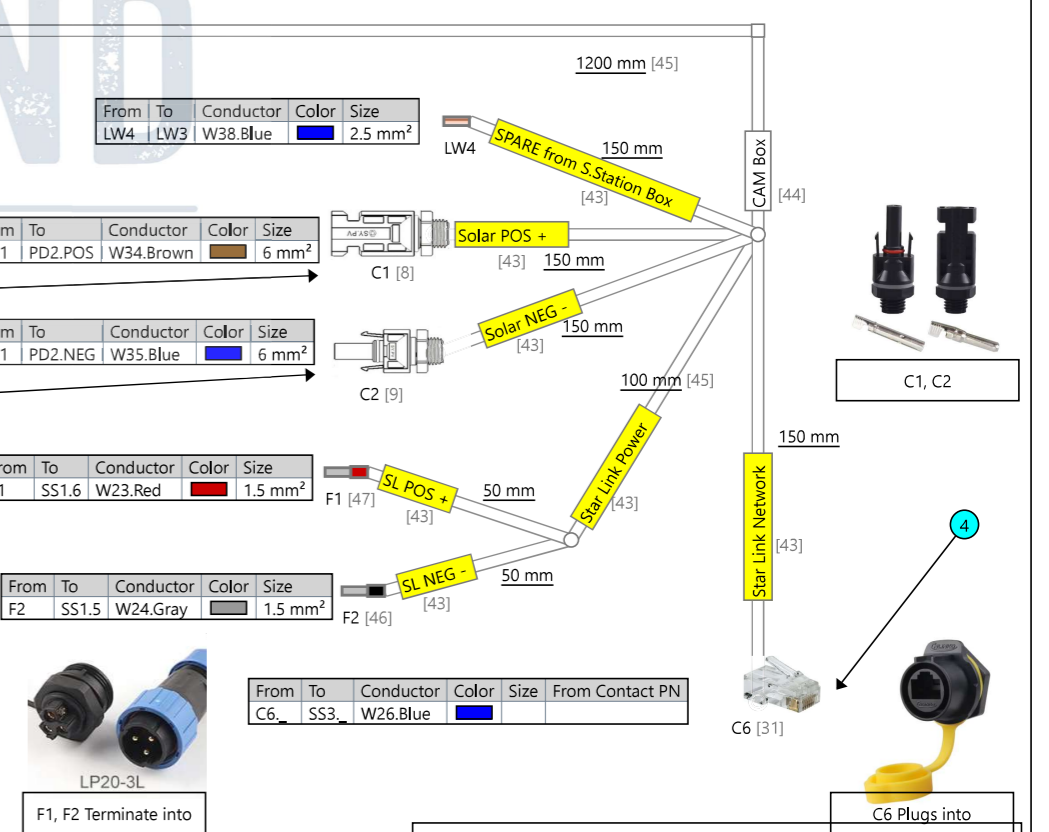


Bill of Materials

Id	Type	Manufacturer	Part Number	Quantity	Description
1	Connector	TE Connectivity - Deutsch	DT06-12SA	1	TE Connectivity - Deutsch DT Series Connector
3	Connector	TE Connectivity - Deutsch	DT06-4S	1	TE Connectivity - Deutsch DT Series Connector
4	Connector	TE Connectivity - Deutsch	DT06-2S	1	TE Connectivity - Deutsch DT Series Connector
8	Connector		MC4 Male, Panel Mount	1	
9	Connector		MC4 Female, Panel Mount	1	
10	Connector	TE Connectivity - Deutsch	DT06-08S	1	TE Connectivity - Deutsch DT Series Connector
11	Connector	TE Connectivity - Deutsch	DT06-6S	1	TE Connectivity - Deutsch DT Series Connector
13	Connector		1/4" Male Plug	2	Straight; TRS
15	Wire		2.5 mm ² Violet	850 mm	Generic Wire
16	Wire		2.5 mm ² Yellow	850 mm	Generic Wire
17	Wire		2.5 mm ² Green	3080 mm	Generic Wire
18	Wire		2.5 mm ² Orange	3680 mm	Generic Wire
19	Wire		2.5 mm ² Pink	3080 mm	Generic Wire
20	Wire		2.5 mm ² Gray	3080 mm	Generic Wire
21	Wire		2.5 mm ² Black	1200 mm	Generic Wire
22	Wire		1.5 mm ² Red	4750 mm	Generic Wire
24	Wire		1.5 mm ² White-Blue	3330 mm	Generic Wire
25	Wire		1.5 mm ² Blue	3330 mm	Generic Wire
26	Wire		1.5 mm ² White-Green	3330 mm	Generic Wire
27	Wire		1.5 mm ² Green	3330 mm	Generic Wire
29	Wire		1.5 mm ² Gray	2350 mm	Generic Wire
30	Wire		CAT6 Ethernet	2450 mm	
31	Connector		RJ45	2	
32	Connector	Anderson	SB50 - Yellow	1	50A - Yellow
33	Connector	Anderson	SB50 - Blue	1	50A - Blue
35	Wire		10 mm ² Black	1725 mm	Generic Wire
36	Wire		10 mm ² Red	1725 mm	Generic Wire
37	Connector		1/4" Female Jack	1	Inline; TRS
38	Wire		Balanced Audio Cable	4050 mm	
39	Connector		1/8" Male Plug	1	Right Angle; TRS
40	Wire		6.0 mm ² Brown	4930 mm	Generic Wire
41	Wire		6.0 mm ² Blue	4930 mm	Generic Wire
42	Wire		2.5 mm ² Blue	5530 mm	Generic Wire
43	Label		Yellow Label	26	Generic Label
44	Label		Generic White Label	9	Generic Label
45	Tape		Black Tape		Generic Tape
46	Ferrule		16 AWG Black	3	Generic Ferrule
47	Ferrule		16 AWG Red	3	Generic Ferrule
49	Connector	Anderson Power	6319G1	2	Rectangular Power Connector, 2 Contact(s), Hermaphroditic



- ### Notes
- 1 Drawing NOT to scale.
 - 2 Do NOT fully terminate into plug. ONLY crimp end. Include plug separate.
 - 3 Use pre-made shielded audio cables with correct ends and ferrite beads.
 - 4 Use CAT6 cable. Terminate to T-568B standard.
 - 5 Join wires external to connector.

Revisions

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.
1.02	01-Apr-26	J. Russell	Added connectors B1 and B2. Removed RT1-6. Added note 5.

Title: Main Harness with CAM Box
 Description: Main harness for PV03.01
 Part Number: PV03.01-W001
 Revision: 1.02

Drawn By	Name	Date
Eng Approved		
Mfg Approved		
QA		

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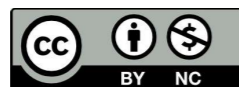


Title:	Main Harness with CAM Box (REVISIONS)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.
1.02	01-Apr-26	J. Russell	Added connectors B1 and B2. Removed RT1-6. Added note 5.

REACH BEYOND

NEW ZEALAND



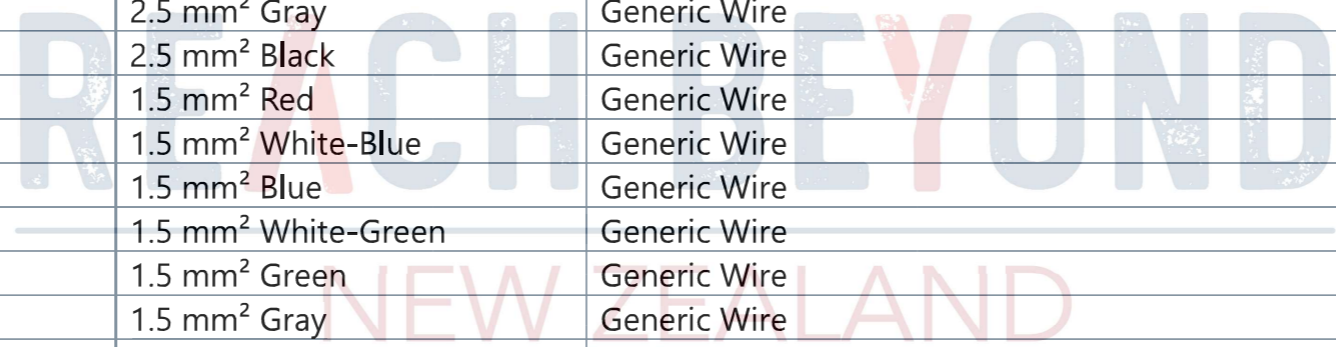
Title:	Main Harness with CAM Box (NOTES)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

Flag	Quantity	Note
1	0	Drawing NOT to scale.
2	2	Do NOT fully terminate into plug. ONLY crimp end. Include plug seperate.
3	4	Use pre-made shielded audio cables with correct ends and ferrite beads.
4	2	Use CAT6 cable. Terminate to T-568B standard.
5	2	Join wires external to connector.

REACH BEYOND
NEW ZEALAND

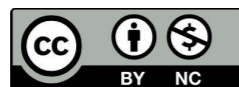
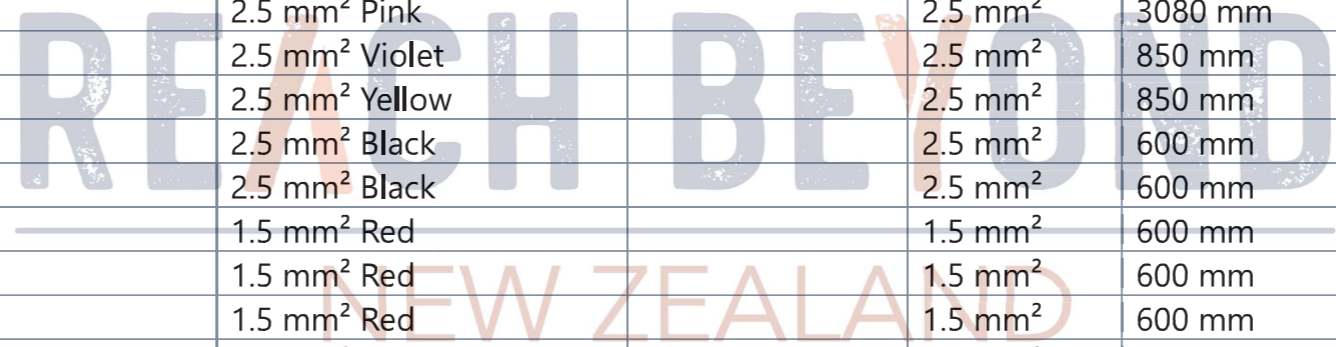
Title:	Main Harness with CAM Box (BOM)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	TE Connectivity - Deutsch	DT06-12SA	TE Connectivity - Deutsch DT Series Connector	1	PD1
3	Connector	TE Connectivity - Deutsch	DT06-4S	TE Connectivity - Deutsch DT Series Connector	1	A2
4	Connector	TE Connectivity - Deutsch	DT06-2S	TE Connectivity - Deutsch DT Series Connector	1	A1
8	Connector		MC4 Male, Panel Mount		1	C1
9	Connector		MC4 Female, Panel Mount		1	C2
10	Connector	TE Connectivity - Deutsch	DT06-08S	TE Connectivity - Deutsch DT Series Connector	1	U1
11	Connector	TE Connectivity - Deutsch	DT06-6S	TE Connectivity - Deutsch DT Series Connector	1	SS1
13	Connector		1/4" Male Plug	Straight; TRS	2	A3, A4
15	Wire		2.5 mm ² Violet	Generic Wire	850 mm	W5
16	Wire		2.5 mm ² Yellow	Generic Wire	850 mm	W6
17	Wire		2.5 mm ² Green	Generic Wire	3080 mm	W7
18	Wire		2.5 mm ² Orange	Generic Wire	3680 mm	W8, W18
19	Wire		2.5 mm ² Pink	Generic Wire	3080 mm	W9
20	Wire		2.5 mm ² Gray	Generic Wire	3080 mm	W10
21	Wire		2.5 mm ² Black	Generic Wire	1200 mm	W11, W12
22	Wire		1.5 mm ² Red	Generic Wire	4750 mm	W13, W14, W15, W16, W23
24	Wire		1.5 mm ² White-Blue	Generic Wire	3330 mm	W19
25	Wire		1.5 mm ² Blue	Generic Wire	3330 mm	W20
26	Wire		1.5 mm ² White-Green	Generic Wire	3330 mm	W21
27	Wire		1.5 mm ² Green	Generic Wire	3330 mm	W22
29	Wire		1.5 mm ² Gray	Generic Wire	2350 mm	W24
30	Wire		CAT6 Ethernet		2450 mm	W26
31	Connector		RJ45		2	C6, SS3
32	Connector	Anderson	SB50 - Yellow	50A - Yellow	1	PD2
33	Connector	Anderson	SB50 - Blue	50A - Blue	1	PD3
35	Wire		10 mm ² Black	Generic Wire	1725 mm	W27, W29
36	Wire		10 mm ² Red	Generic Wire	1725 mm	W28, W30
37	Connector		1/4" Female Jack	Inline; TRS	1	U2
38	Wire		Balanced Audio Cable		4050 mm	W32, W33
39	Connector		1/8" Male Plug	Right Angle; TRS	1	SS2
40	Wire		6.0 mm ² Brown	Generic Wire	4930 mm	W34
41	Wire		6.0 mm ² Blue	Generic Wire	4930 mm	W35
42	Wire		2.5 mm ² Blue	Generic Wire	5530 mm	W37, W38
43	Label		Yellow Label	Generic Label	26	See Drawing
44	Label		Generic White Label	Generic Label	9	See Drawing
45	Tape		Black Tape	Generic Tape		See Drawing
46	Ferrule		16 AWG Black	Generic Ferrule	3	F2, Spk1-, Spk2-
47	Ferrule		16 AWG Red	Generic Ferrule	3	F1, Spk2+, Spk1+
49	Connector	Anderson Power	6319G1	Rectangular Power Connector, 2 Contact(s), Hermaphroditic, Crimp and Solder Terminal	2	B1, B2



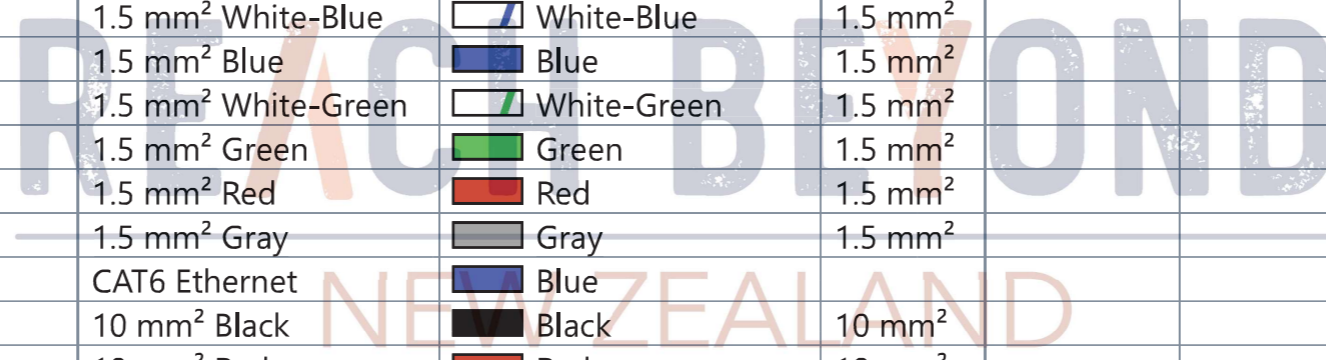
Title:	Main Harness with CAM Box (WIRING TABLE)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
A2.1	Spk1+	W19.White-Blue	1.5 mm ² White-Blue		1.5 mm ²	3330 mm		
A2.2	Spk1-	W20.Blue	1.5 mm ² Blue		1.5 mm ²	3330 mm		
A2.3	Spk2+	W21.White-Green	1.5 mm ² White-Green		1.5 mm ²	3330 mm		
A2.4	Spk2-	W22.Green	1.5 mm ² Green		1.5 mm ²	3330 mm		
A3._	U2._	W33.Gray-White-Black	Balanced Audio Cable			1050 mm		PREMADE CABLE
A4._	SS2._	W32.Gray-White-Black	Balanced Audio Cable			3000 mm		PREMADE CABLE
B1.NEG	B2.NEG	W29.Black	10 mm ² Black		10 mm ²	600 mm		Battery Link -
B1.POS	B2.POS	W30.Red	10 mm ² Red		10 mm ²	600 mm		Battery Link +
LW1	LW2	W37.Blue	2.5 mm ² Blue		2.5 mm ²	3130 mm		Spare
LW3	LW4	W38.Blue	2.5 mm ² Blue		2.5 mm ²	2400 mm		Spare
PD1.1	SS1.4	W7.Green	2.5 mm ² Green		2.5 mm ²	3080 mm		SS -
PD1.2	U1.7	W8.Orange	2.5 mm ² Orange		2.5 mm ²	600 mm		SS + (From PD)
PD1.3	SS1.2	W10.Gray	2.5 mm ² Gray		2.5 mm ²	3080 mm		SL -
PD1.4	SS1.1	W9.Pink	2.5 mm ² Pink		2.5 mm ²	3080 mm		SL +
PD1.5	A1.2	W5.Violet	2.5 mm ² Violet		2.5 mm ²	850 mm		Amp -
PD1.6	A1.1	W6.Yellow	2.5 mm ² Yellow		2.5 mm ²	850 mm		Amp +
PD1.7	U1.6	W11.Black	2.5 mm ² Black		2.5 mm ²	600 mm		USB -
PD1.8	U1.5	W12.Black	2.5 mm ² Black		2.5 mm ²	600 mm		USB -
PD1.9	U1.4	W13.Red	1.5 mm ² Red		1.5 mm ²	600 mm		USB +
PD1.10	U1.3	W14.Red	1.5 mm ² Red		1.5 mm ²	600 mm		USB +
PD1.11	U1.2	W15.Red	1.5 mm ² Red		1.5 mm ²	600 mm		USB +
PD1.12	U1.1	W16.Red	1.5 mm ² Red		1.5 mm ²	600 mm		USB +
PD2.NEG	C2.1	W35.Blue	6.0 mm ² Blue		6 mm ²	4930 mm		Solar Panel -
PD2.POS	C1.1	W34.Brown	6.0 mm ² Brown		6 mm ²	4930 mm		Solar Panel +
PD3.NEG	B2.NEG	W27.Black	10 mm ² Black		10 mm ²	1125 mm		Battery -
PD3.POS	B1.POS	W28.Red	10 mm ² Red		10 mm ²	1125 mm		Battery +
SS1.5	F2	W24.Gray	1.5 mm ² Gray		1.5 mm ²	2350 mm		SL -
SS1.6	F1	W23.Red	1.5 mm ² Red		1.5 mm ²	2350 mm		SL +
SS3._	C6._	W26.Blue	CAT6 Ethernet			2450 mm		PREMADE CABLE
U1.8	SS1.3	W18.Orange	2.5 mm ² Orange		2.5 mm ²	3080 mm		SS + (From Switch)



Title:	Main Harness with CAM Box (CUTLIST)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1	Wire	W5		2.5 mm ² Violet	Violet	2.5 mm ²			850 mm		Amp -
2	Wire	W6		2.5 mm ² Yellow	Yellow	2.5 mm ²			850 mm		Amp +
3	Wire	W7		2.5 mm ² Green	Green	2.5 mm ²			3080 mm		SS -
4	Wire	W8		2.5 mm ² Orange	Orange	2.5 mm ²			600 mm		SS + (From PD)
5	Wire	W9		2.5 mm ² Pink	Pink	2.5 mm ²			3080 mm		SL +
6	Wire	W10		2.5 mm ² Gray	Gray	2.5 mm ²			3080 mm		SL -
7	Wire	W11		2.5 mm ² Black	Black	2.5 mm ²			600 mm		USB -
8	Wire	W12		2.5 mm ² Black	Black	2.5 mm ²			600 mm		USB -
9	Wire	W13		1.5 mm ² Red	Red	1.5 mm ²			600 mm		USB +
10	Wire	W14		1.5 mm ² Red	Red	1.5 mm ²			600 mm		USB +
11	Wire	W15		1.5 mm ² Red	Red	1.5 mm ²			600 mm		USB +
12	Wire	W16		1.5 mm ² Red	Red	1.5 mm ²			600 mm		USB +
13	Wire	W18		2.5 mm ² Orange	Orange	2.5 mm ²			3080 mm		SS + (From Switch)
14	Wire	W19		1.5 mm ² White-Blue	White-Blue	1.5 mm ²			3330 mm		
15	Wire	W20		1.5 mm ² Blue	Blue	1.5 mm ²			3330 mm		
16	Wire	W21		1.5 mm ² White-Green	White-Green	1.5 mm ²			3330 mm		
17	Wire	W22		1.5 mm ² Green	Green	1.5 mm ²			3330 mm		
18	Wire	W23		1.5 mm ² Red	Red	1.5 mm ²			2350 mm		SL +
19	Wire	W24		1.5 mm ² Gray	Gray	1.5 mm ²			2350 mm		SL -
20	Wire	W26		CAT6 Ethernet	Blue				2450 mm		PREMADE CABLE
21	Wire	W27		10 mm ² Black	Black	10 mm ²			1125 mm		Battery -
22	Wire	W28		10 mm ² Red	Red	10 mm ²			1125 mm		Battery +
23	Wire	W29		10 mm ² Black	Black	10 mm ²			600 mm		Battery Link -
24	Wire	W30		10 mm ² Red	Red	10 mm ²			600 mm		Battery Link +
25	Wire	W32		Balanced Audio Cable	Gray-White-Black				3000 mm		PREMADE CABLE
26	Wire	W33		Balanced Audio Cable	Gray-White-Black				1050 mm		PREMADE CABLE
27	Wire	W34		6.0 mm ² Brown	Brown	6 mm ²			4930 mm		Solar Panel +
28	Wire	W35		6.0 mm ² Blue	Blue	6 mm ²			4930 mm		Solar Panel -
29	Wire	W37		2.5 mm ² Blue	Blue	2.5 mm ²			3130 mm		Spare
30	Wire	W38		2.5 mm ² Blue	Blue	2.5 mm ²			2400 mm		Spare



Title:	Main Harness with CAM Box (LABELS)
Part Number:	PV03.01-W001
Description:	Main harness for PV03.01

#	Manufacturer	Part Number	Description	Label Text
1		Generic White Label	Generic Label	Amplifier Box
2		Generic White Label	Generic Label	Battery 1
3		Generic White Label	Generic Label	Battery 2
4		Generic White Label	Generic Label	CAM Box
5		Generic White Label	Generic Label	Power Distro Box
6		Generic White Label	Generic Label	Sheepstation Box
7		Generic White Label	Generic Label	Speaker 1
8		Generic White Label	Generic Label	Speaker 2
9		Generic White Label	Generic Label	USB/Mic Box
10		Yellow Label	Generic Label	AMP-Speakers
11		Yellow Label	Generic Label	Amp Power
12		Yellow Label	Generic Label	Battery
13		Yellow Label	Generic Label	Mic
14		Yellow Label	Generic Label	Mic
15		Yellow Label	Generic Label	NEG -
16		Yellow Label	Generic Label	NEG -
17		Yellow Label	Generic Label	POS +
18		Yellow Label	Generic Label	POS +
19		Yellow Label	Generic Label	Power
20		Yellow Label	Generic Label	Power Distro
21		Yellow Label	Generic Label	S.Station
22		Yellow Label	Generic Label	S.Station
23		Yellow Label	Generic Label	S.Station Audio
24		Yellow Label	Generic Label	SL NEG -
25		Yellow Label	Generic Label	SL POS +
26		Yellow Label	Generic Label	SPARE from PD Box
27		Yellow Label	Generic Label	SPARE from S.Station Box
28		Yellow Label	Generic Label	SPARE to CAM Box
29		Yellow Label	Generic Label	SPARE to S.Station Box
30		Yellow Label	Generic Label	Solar NEG -
31		Yellow Label	Generic Label	Solar POS +
32		Yellow Label	Generic Label	Solar Panel
33		Yellow Label	Generic Label	Star Link Network
34		Yellow Label	Generic Label	Star Link Power
35		Yellow Label	Generic Label	USB



From	To	Conductor	Color	Size
C1.1	RT8	W3.Green	Green	2.5 mm ²
C1.2	RT1	W5.Orange	Orange	2.5 mm ²
C1.3	RT9	W10.Gray	Gray	2.5 mm ²
C1.4	RT2	W6.Pink	Pink	2.5 mm ²
C1.5	RT10	W1.Violet	Violet	2.5 mm ²
C1.6	RT3	W2.Yellow	Yellow	2.5 mm ²
C1.7	RT11	W11.Black	Black	2.5 mm ²
C1.8	RT12	W12.Black	Black	2.5 mm ²
C1.9	RT4	W13.Red	Red	1.5 mm ²
C1.10	RT5	W14.Red	Red	1.5 mm ²
C1.11	RT6	W15.Red	Red	1.5 mm ²
C1.12	RT7	W16.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
RT1	C1.2	W5.Orange	Orange	2.5 mm ²

From	To	Conductor	Color	Size
RT2	C1.4	W6.Pink	Pink	2.5 mm ²

From	To	Conductor	Color	Size
RT3	C1.6	W2.Yellow	Yellow	2.5 mm ²

From	To	Conductor	Color	Size
RT4	C1.9	W13.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
RT5	C1.10	W14.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
RT6	C1.11	W15.Red	Red	1.5 mm ²


From	To	Conductor	Color	Size
RT7	C1.12	W16.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
RT13	F1	W21.White	White	6 mm ²

From	To	Conductor	Color	Size
RT14	F2	W22.Yellow	Yellow	6 mm ²

From	To	Conductor	Color	Size
C4.NEG -	F5	W20.Black	Black	10 mm ²
C4.POS +	F6	W19.Red	Red	10 mm ²

From	To	Conductor	Color	Size
C3.NEG -	F3	W18.Blue	Blue	6 mm ²
C3.POS +	F4	W17.Brown	Brown	6 mm ²

Coverings	
Id	Assembly
[33]	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Connector	TE Connectivity - Deutsch	DT04-12PC	1
5	Connector	Anderson	SB50 - Blue	1
6	Connector	Anderson	SB50 - Yellow	1
10	Ring Terminal		1.5-2.5 mm ² ; 5mm; Blue	12
12	Ring Terminal		4-6 mm ² ; 5mm; Yellow	2
13	Ferrule		6.0 mm ² Yellow	4
14	Ferrule		10 mm ² Red	2
15	Wire		2.5 mm ² Violet	225 mm
16	Wire		2.5 mm ² Yellow	225 mm
17	Wire		2.5 mm ² Green	225 mm
19	Wire		2.5 mm ² Orange	225 mm
20	Wire		2.5 mm ² Pink	285 mm
24	Wire		2.5 mm ² Gray	225 mm
25	Wire		2.5 mm ² Black	450 mm
26	Wire		1.5 mm ² Red	1020 mm
27	Wire		6.0 mm ² Brown	300 mm
28	Wire		6.0 mm ² Blue	300 mm
29	Wire		10 mm ² Red	300 mm
30	Wire		10 mm ² Black	300 mm
31	Wire		6.0 mm ² White	325 mm
32	Wire		6.0 mm ² Yellow	325 mm
33	Tape		Orange Tape	
34	Label		White Label	23

From	To	Conductor	Color	Size
F1	RT13	W21.White	White	6 mm ²

From	To	Conductor	Color	Size
F2	RT14	W22.Yellow	Yellow	6 mm ²

From	To	Conductor	Color	Size
F5	C4.NEG -	W20.Black	Black	10 mm ²

From	To	Conductor	Color	Size
F6	C4.POS +	W19.Red	Red	10 mm ²

From	To	Conductor	Color	Size
F3	C3.NEG -	W18.Blue	Blue	6 mm ²

From	To	Conductor	Color	Size
F4	C3.POS +	W17.Brown	Brown	6 mm ²

- Notes**
- 1 Drawing NOT TO SCALE.
 - 2 Test all connections fully.
 - 3 If in doubt, ask a question.
 - 4 Two separate harnesses on this sheet.
 - 5 All labels placed near to terminal.

Title Power Distribution Box
 Description INT PD box connections

Part Number PV03.01-W002

Revision 1.01

	Name	Date
Drawn By	JR	10 FEB 2026
Eng Approved	----	----
Mfg Approved	----	----
QA	----	----

rapidHARNNESS

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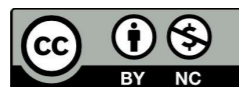


Title:	Power Distribution Box (REVISIONS)
Part Number:	PV03.01-W002
Description:	INT PD box connections

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.

REACH BEYOND

NEW ZEALAND



Title:	Power Distribution Box (NOTES)
Part Number:	PV03.01-W002
Description:	INT PD box connections

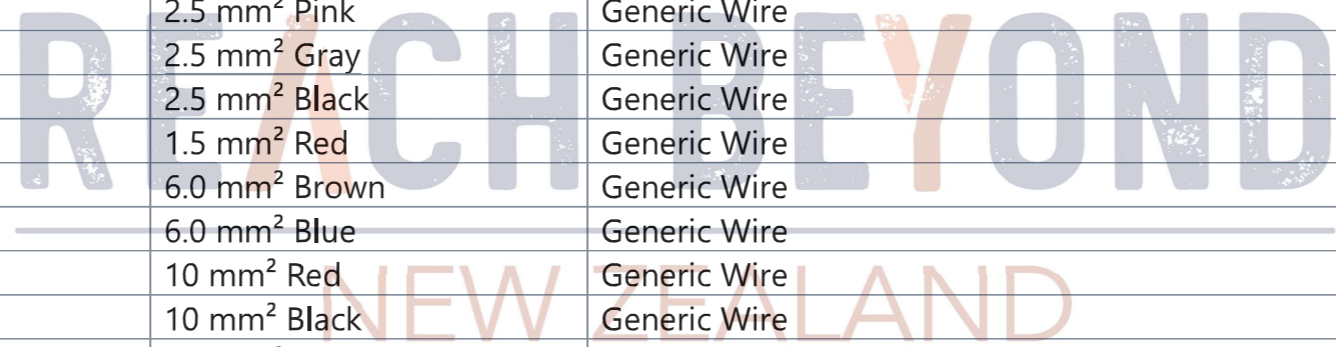
Flag	Quantity	Note
①	0	Drawing NOT TO SCALE.
②	0	Test all connections fully.
③	0	If in doubt, ask a question.
④	2	Two seperate harnesses on this sheet.
⑤	4	All labels placed near to terminal.

REACH BEYOND





NEW ZEALAND

Title:	Power Distribution Box (BOM)
Part Number:	PV03.01-W002
Description:	INT PD box connections

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	TE Connectivity - Deutsch	DT04-12PC	TE Connectivity - Deutsch DT Series Connector	1	C1
5	Connector	Anderson	SB50 - Blue	50A - Blue	1	C4
6	Connector	Anderson	SB50 - Yellow	50A - Yellow	1	C3
10	Ring Terminal		1.5-2.5 mm ² ; 5mm; Blue	5mm Opening	12	RT1, RT2, RT3, RT4, RT5, RT6, RT7, RT8, RT9, RT10, RT11, RT12
12	Ring Terminal		4-6 mm ² ; 5mm; Yellow	5mm Opening	2	RT13, RT14
13	Ferrule		6.0 mm ² Yellow	E6012 Ferrule	4	F1, F2, F3, F4
14	Ferrule		10 mm ² Red	E1012 Ferrule	2	F5, F6
15	Wire		2.5 mm ² Violet	Generic Wire	225 mm	W1
16	Wire		2.5 mm ² Yellow	Generic Wire	225 mm	W2
17	Wire		2.5 mm ² Green	Generic Wire	225 mm	W3
19	Wire		2.5 mm ² Orange	Generic Wire	225 mm	W5
20	Wire		2.5 mm ² Pink	Generic Wire	285 mm	W6
24	Wire		2.5 mm ² Gray	Generic Wire	225 mm	W10
25	Wire		2.5 mm ² Black	Generic Wire	450 mm	W11, W12
26	Wire		1.5 mm ² Red	Generic Wire	1020 mm	W13, W14, W15, W16
27	Wire		6.0 mm ² Brown	Generic Wire	300 mm	W17
28	Wire		6.0 mm ² Blue	Generic Wire	300 mm	W18
29	Wire		10 mm ² Red	Generic Wire	300 mm	W19
30	Wire		10 mm ² Black	Generic Wire	300 mm	W20
31	Wire		6.0 mm ² White	Generic Wire	325 mm	W21
32	Wire		6.0 mm ² Yellow	Generic Wire	325 mm	W22
33	Tape		Orange Tape	Generic Tape		See Drawing
34	Label		White Label	Generic Label	23	See Drawing



Title:	Power Distribution Box (WIRING TABLE)
Part Number:	PV03.01-W002
Description:	INT PD box connections

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
C1.1	RT8	 W3.Green	2.5 mm ² Green		2.5 mm ²	225 mm		Sheepstation -
C1.2	RT1	 W5.Orange	2.5 mm ² Orange		2.5 mm ²	225 mm		Sheepstation +
C1.3	RT9	 W10.Gray	2.5 mm ² Gray		2.5 mm ²	225 mm		SL -
C1.4	RT2	 W6.Pink	2.5 mm ² Pink		2.5 mm ²	285 mm		SL +
C1.5	RT10	 W1.Violet	2.5 mm ² Violet		2.5 mm ²	225 mm		Amp -
C1.6	RT3	 W2.Yellow	2.5 mm ² Yellow		2.5 mm ²	225 mm		Amp +
C1.7	RT11	 W11.Black	2.5 mm ² Black		2.5 mm ²	225 mm		USB -
C1.8	RT12	 W12.Black	2.5 mm ² Black		2.5 mm ²	225 mm		USB -
C1.9	RT4	 W13.Red	1.5 mm ² Red		1.5 mm ²	225 mm		USB +
C1.10	RT5	 W14.Red	1.5 mm ² Red		1.5 mm ²	225 mm		USB +
C1.11	RT6	 W15.Red	1.5 mm ² Red		1.5 mm ²	285 mm		USB +
C1.12	RT7	 W16.Red	1.5 mm ² Red		1.5 mm ²	285 mm		USB +
C3.NEG -	F3	 W18.Blue	6.0 mm ² Blue		6 mm ²	300 mm		Solar Panel -
C3.POS +	F4	 W17.Brown	6.0 mm ² Brown		6 mm ²	300 mm		Solar Panel +
C4.NEG -	F5	 W20.Black	10 mm ² Black		10 mm ²	300 mm		Battery -
C4.POS +	F6	 W19.Red	10 mm ² Red		10 mm ²	300 mm		Battery +
F1	RT13	 W21.White	6.0 mm ² White		6 mm ²	325 mm		Fuse Block -
F2	RT14	 W22.Yellow	6.0 mm ² Yellow		6 mm ²	325 mm		Fuse Block +

REACH BEYOND
NEW ZEALAND

Title:	Power Distribution Box (CUTLIST)
Part Number:	PV03.01-W002
Description:	INT PD box connections

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1	Wire	W1		2.5 mm ² Violet	Violet	2.5 mm ²			225 mm		Amp -
2	Wire	W2		2.5 mm ² Yellow	Yellow	2.5 mm ²			225 mm		Amp +
3	Wire	W3		2.5 mm ² Green	Green	2.5 mm ²			225 mm		Sheepstation -
4	Wire	W5		2.5 mm ² Orange	Orange	2.5 mm ²			225 mm		Sheepstation +
5	Wire	W6		2.5 mm ² Pink	Pink	2.5 mm ²			285 mm		SL +
6	Wire	W10		2.5 mm ² Gray	Gray	2.5 mm ²			225 mm		SL -
7	Wire	W11		2.5 mm ² Black	Black	2.5 mm ²			225 mm		USB -
8	Wire	W12		2.5 mm ² Black	Black	2.5 mm ²			225 mm		USB -
9	Wire	W13		1.5 mm ² Red	Red	1.5 mm ²			225 mm		USB +
10	Wire	W14		1.5 mm ² Red	Red	1.5 mm ²			225 mm		USB +
11	Wire	W15		1.5 mm ² Red	Red	1.5 mm ²			285 mm		USB +
12	Wire	W16		1.5 mm ² Red	Red	1.5 mm ²			285 mm		USB +
13	Wire	W17		6.0 mm ² Brown	Brown	6 mm ²			300 mm		Solar Panel +
14	Wire	W18		6.0 mm ² Blue	Blue	6 mm ²			300 mm		Solar Panel -
15	Wire	W19		10 mm ² Red	Red	10 mm ²			300 mm		Battery +
16	Wire	W20		10 mm ² Black	Black	10 mm ²			300 mm		Battery -
17	Wire	W21		6.0 mm ² White	White	6 mm ²			325 mm		Fuse Block -
18	Wire	W22		6.0 mm ² Yellow	Yellow	6 mm ²			325 mm		Fuse Block +

REACT BEYOND

NEW ZEALAND

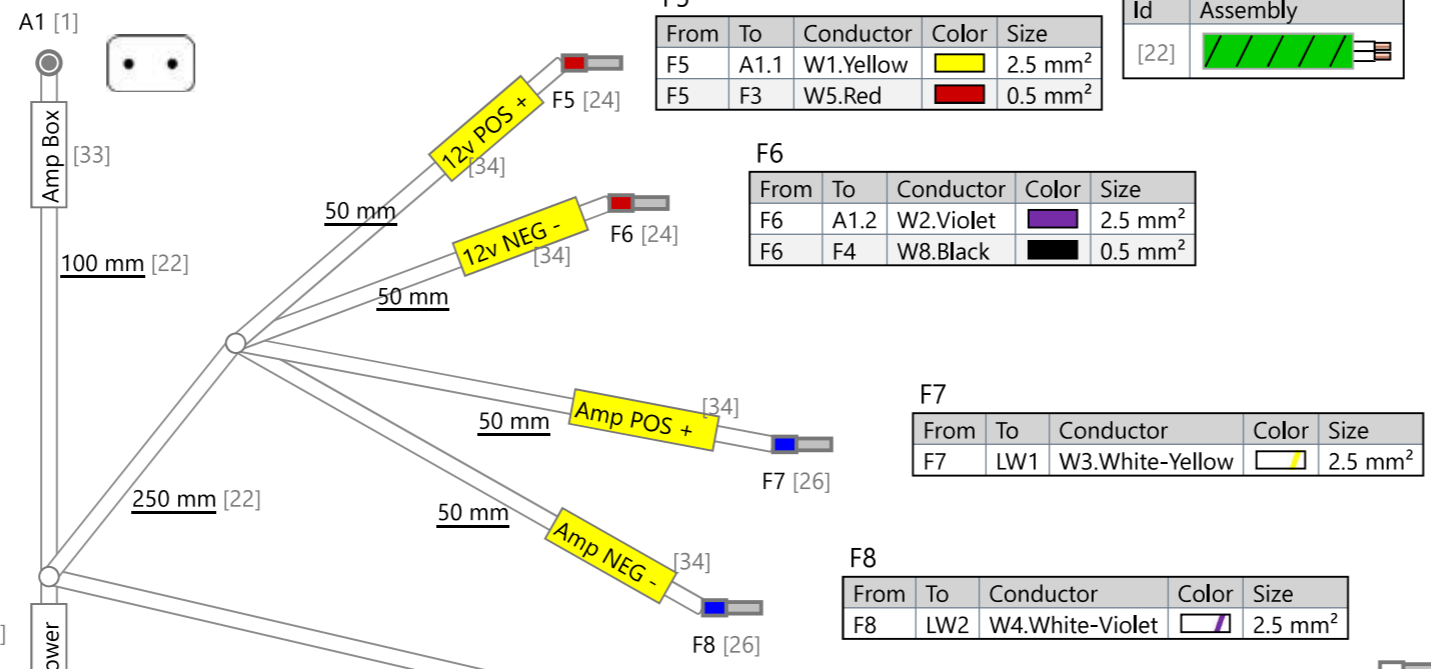


Title:	Power Distribution Box (LABELS)
Part Number:	PV03.01-W002
Description:	INT PD box connections

#	Manufacturer	Part Number	Description	Label Text
1		White Label	Generic Label	Amp Neg
2		White Label	Generic Label	Amp Pos
3		White Label	Generic Label	Bat Neg
4		White Label	Generic Label	Bat Pos
5		White Label	Generic Label	Battery
6		White Label	Generic Label	Fuse Neg
7		White Label	Generic Label	Fuse Pos
8		White Label	Generic Label	Load Neg
9		White Label	Generic Label	Load Pos
10		White Label	Generic Label	Power Distro
11		White Label	Generic Label	S.Link Neg
12		White Label	Generic Label	S.Link Pos
13		White Label	Generic Label	S.Station Neg
14		White Label	Generic Label	S.Station Pos
15		White Label	Generic Label	Solar Neg
16		White Label	Generic Label	Solar Panel
17		White Label	Generic Label	Solar Pos
18		White Label	Generic Label	USB Neg
19		White Label	Generic Label	USB Neg
20		White Label	Generic Label	USB Pos
21		White Label	Generic Label	USB Pos
22		White Label	Generic Label	USB Pos
23		White Label	Generic Label	USB Pos



From	To	Conductor	Color	Size
A1.1	F5	W1.Yellow	Yellow	2.5 mm ²
A1.2	F6	W2.Violet	Violet	2.5 mm ²



From	To	Conductor	Color	Size
F5	A1.1	W1.Yellow	Yellow	2.5 mm ²
F5	F3	W5.Red	Red	0.5 mm ²

From	To	Conductor	Color	Size
F6	A1.2	W2.Violet	Violet	2.5 mm ²
F6	F4	W8.Black	Black	0.5 mm ²

From	To	Conductor	Color	Size
F7	LW1	W3.White-Yellow	White-Yellow	2.5 mm ²

From	To	Conductor	Color	Size
F8	LW2	W4.White-Violet	White-Violet	2.5 mm ²

From	To	Conductor	Color	Size
LW1	F7	W3.White-Yellow	White-Yellow	2.5 mm ²

From	To	Conductor	Color	Size
LW2	F8	W4.White-Violet	White-Violet	2.5 mm ²

From	To	Conductor	Color	Size
RT1	A2.1	W9.White-Blue	White-Blue	1.5 mm ²

From	To	Conductor	Color	Size
RT2	A2.2	W11.Blue	Blue	1.5 mm ²

From	To	Conductor	Color	Size
RT3	A2.3	W10.White-Green	White-Green	1.5 mm ²

From	To	Conductor	Color	Size
RT4	A2.4	W12.Green	Green	1.5 mm ²

From	To	Conductor	Color	Size
C1.1	C2.1	W15.Red	Red	0.5 mm ²
C1.1	F1	W7.Red	Red	0.5 mm ²
C1.2	C2.2	W14.Black	Black	0.5 mm ²
C1.2	F4	W13.Black	Black	0.5 mm ²

From	To	Conductor	Color	Size
C2.1	C1.1	W15.Red	Red	0.5 mm ²
C2.2	C1.2	W14.Black	Black	0.5 mm ²

Coverings	
Id	Assembly
[22]	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Connector	TE Connectivity - Deutsch	DT04-2P	1
2	Connector	TE Connectivity - Deutsch	DT04-4P	1
13	Wire		1.5 mm ² White-Blue	350 mm
14	Wire		1.5 mm ² White-Green	350 mm
15	Wire		1.5 mm ² Blue	350 mm
16	Wire		1.5 mm ² Green	350 mm
17	Wire		1.5 mm ² Yellow	400 mm
18	Wire		2.5 mm ² Violet	400 mm
19	Wire		2.5 mm ² White-Yellow	550 mm
20	Wire		2.5 mm ² White-Violet	550 mm
22	Tape		Green Tape	
24	Ferrule		Unspecified gauge Red	2
26	Ferrule		Unspecified gauge Blue	2
29	Ferrule		E1006 Twin - Red	2
30	Wire		0.5 mm ² Red	1700 mm
31	Wire		0.5 mm ² Black	1650 mm
32	Ferrule		E0506 - White	2
33	Label		Generic White Label	3
34	Label		Yellow Label	16

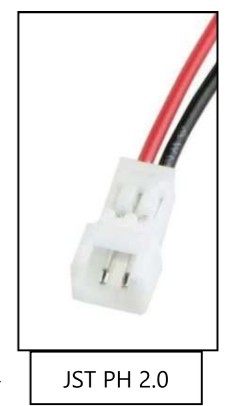
From	To	Conductor	Color	Size
F2	F3	W6.Red	Red	0.5 mm ²

From	To	Conductor	Color	Size
F3	F2	W6.Red	Red	0.5 mm ²
F3	F5	W5.Red	Red	0.5 mm ²

From	To	Conductor	Color	Size
F4	C1.2	W13.Black	Black	0.5 mm ²
F4	F6	W8.Black	Black	0.5 mm ²

From	To	Conductor	Color	Size
F1	C1.1	W7.Red	Red	0.5 mm ²

From	To	Conductor	Color	Size
A2.1	RT1	W9.White-Blue	White-Blue	1.5 mm ²
A2.2	RT2	W11.Blue	Blue	1.5 mm ²
A2.3	RT3	W10.White-Green	White-Green	1.5 mm ²
A2.4	RT4	W12.Green	Green	1.5 mm ²



Notes

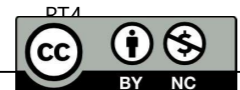
1 Connector is JST PH 2.0 male.

Title	Amplifier Box	Part Number	PV03.01-W003
Description	INT Amp Box	Revision	1.01

	Name	Date
Drawn By	----	----
Eng Approved	----	----
Mfg Approved	----	----
QA	----	----

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Title:	Amplifier Box (REVISIONS)
Part Number:	PV03.01-W003
Description:	INT Amp Box

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.
1.02	30-Mar-26	J. Russell	Removed C4, replaced with LW1 & LW2. Added Labels to LW1 & LW2. C1 & C2 connector type is JST PH 2.0. Added Labels to RT1-4. Changed wiring to C2.

REACH BEYOND
NEW ZEALAND

Title:	Amplifier Box (NOTES)
Part Number:	PV03.01-W003
Description:	INT Amp Box

Flag	Quantity	Note
1	3	Connector is JST PH 2.0 male.

REACH BEYOND
 NEW ZEALAND

Title:	Amplifier Box (BOM)
Part Number:	PV03.01-W003
Description:	INT Amp Box

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	TE Connectivity - Deutsch	DT04-2P	TE Connectivity - Deutsch DT Series Connector	1	A1
2	Connector	TE Connectivity - Deutsch	DT04-4P	TE Connectivity - Deutsch DT Series Connector	1	A2
13	Wire		1.5 mm ² White-Blue	Generic Wire	350 mm	W9
14	Wire		1.5 mm ² White-Green	Generic Wire	350 mm	W10
15	Wire		1.5 mm ² Blue	Generic Wire	350 mm	W11
16	Wire		1.5 mm ² Green	Generic Wire	350 mm	W12
17	Wire		2.5 mm ² Yellow	Generic Wire	400 mm	W1
18	Wire		2.5 mm ² Violet	Generic Wire	400 mm	W2
19	Wire		2.5 mm ² White-Yellow	Generic Wire	550 mm	W3
20	Wire		2.5 mm ² White-Violet	Generic Wire	550 mm	W4
22	Tape		Green Tape	Generic Tape		See Drawing
24	Ferrule		Unspecified gauge Red	Generic Ferrule	2	F5, F6
26	Ferrule		Unspecified gauge Blue	Generic Ferrule	2	F7, F8
29	Ferrule		E1006 Twin - Red	Twin Ferrule 2x 0.50mm	2	F3, F4
30	Wire		0.5 mm ² Red	Generic Wire	1700 mm	W5, W6, W7, W15
31	Wire		0.5 mm ² Black	Generic Wire	1650 mm	W8, W13, W14
32	Ferrule		E0506 - White	Ferrule 1x 0.50mm	2	F1, F2
33	Label		Generic White Label	Generic Label	3	See Drawing
34	Label		Yellow Label	Generic Label	16	See Drawing

REACH BEYOND
NEW ZEALAND

Title:	Amplifier Box (WIRING TABLE)
Part Number:	PV03.01-W003
Description:	INT Amp Box

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
A1.1	F5	W1.Yellow	2.5 mm ² Yellow		2.5 mm ²	400 mm		12v +
A1.2	F6	W2.Violet	2.5 mm ² Violet		2.5 mm ²	400 mm		12v -
A2.1	RT1	W9.White-Blue	1.5 mm ² White-Blue		1.5 mm ²	350 mm		Chan 1 -
A2.2	RT2	W11.Blue	1.5 mm ² Blue		1.5 mm ²	350 mm		Chan 1 +
A2.3	RT3	W10.White-Green	1.5 mm ² White-Green		1.5 mm ²	350 mm		Chan 2 -
A2.4	RT4	W12.Green	1.5 mm ² Green		1.5 mm ²	350 mm		Chan 2 +
C1.1	C2.1	W15.Red	0.5 mm ² Red		0.5 mm ²	500 mm		Fan 2 +
C1.2	C2.2	W14.Black	0.5 mm ² Black		0.5 mm ²	500 mm		Fan 2 -
F1	C1.1	W7.Red	0.5 mm ² Red		0.5 mm ²	550 mm		Fan +
F3	F2	W6.Red	0.5 mm ² Red		0.5 mm ²	50 mm		Fan IN
F4	C1.2	W13.Black	0.5 mm ² Black		0.5 mm ²	550 mm		Fan -=
F5	F3	W5.Red	0.5 mm ² Red		0.5 mm ²	600 mm		Thermostat +
F6	F4	W8.Black	0.5 mm ² Black		0.5 mm ²	600 mm		Thermostat -
F7	LW1	W3.White-Yellow	2.5 mm ² White-Yellow		2.5 mm ²	550 mm		24v +
F8	LW2	W4.White-Violet	2.5 mm ² White-Violet		2.5 mm ²	550 mm		24v -

REACH BEYOND
NEW ZEALAND

Title:	Amplifier Box (CUTLIST)
Part Number:	PV03.01-W003
Description:	INT Amp Box

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1	Wire	W1		2.5 mm ² Yellow	Yellow	2.5 mm ²			400 mm		12v +
2	Wire	W2		2.5 mm ² Violet	Violet	2.5 mm ²			400 mm		12v -
3	Wire	W3		2.5 mm ² White-Yellow	White-Yellow	2.5 mm ²			550 mm		24v +
4	Wire	W4		2.5 mm ² White-Violet	White-Violet	2.5 mm ²			550 mm		24v -
5	Wire	W5		0.5 mm ² Red	Red	0.5 mm ²			600 mm		Thermostat +
6	Wire	W6		0.5 mm ² Red	Red	0.5 mm ²			50 mm		Fan IN
7	Wire	W7		0.5 mm ² Red	Red	0.5 mm ²			550 mm		Fan +
8	Wire	W8		0.5 mm ² Black	Black	0.5 mm ²			600 mm		Thermostat -
9	Wire	W9		1.5 mm ² White-Blue	White-Blue	1.5 mm ²			350 mm		Chan 1 -
10	Wire	W10		1.5 mm ² White-Green	White-Green	1.5 mm ²			350 mm		Chan 2 -
11	Wire	W11		1.5 mm ² Blue	Blue	1.5 mm ²			350 mm		Chan 1 +
12	Wire	W12		1.5 mm ² Green	Green	1.5 mm ²			350 mm		Chan 2 +
13	Wire	W13		0.5 mm ² Black	Black	0.5 mm ²			550 mm		Fan -=
14	Wire	W14		0.5 mm ² Black	Black	0.5 mm ²			500 mm		Fan 2 -
15	Wire	W15		0.5 mm ² Red	Red	0.5 mm ²			500 mm		Fan 2 +

REACH BEYOND
NEW ZEALAND

Title:	Amplifier Box (LABELS)
Part Number:	PV03.01-W003
Description:	INT Amp Box


#	Manufacturer	Part Number	Description	Label Text
1		Generic White Label	Generic Label	Amp Box
2		Generic White Label	Generic Label	Amp Power
3		Generic White Label	Generic Label	Fan/Thermostat
4		Yellow Label	Generic Label	" +12v"
5		Yellow Label	Generic Label	"GND"
6		Yellow Label	Generic Label	"K0"
7		Yellow Label	Generic Label	"K1"
8		Yellow Label	Generic Label	12v NEG -
9		Yellow Label	Generic Label	12v POS +
10		Yellow Label	Generic Label	Amp NEG -
11		Yellow Label	Generic Label	Amp NEG -
12		Yellow Label	Generic Label	Amp POS +
13		Yellow Label	Generic Label	Amp POS +
14		Yellow Label	Generic Label	Chan 1 NEG -
15		Yellow Label	Generic Label	Chan 1 POS +
16		Yellow Label	Generic Label	Chan 2 NEG -
17		Yellow Label	Generic Label	Chan 2 POS +
18		Yellow Label	Generic Label	Fan 2
19		Yellow Label	Generic Label	Fan Power

REACH BEYOND
NEW ZEALAND



From	To	Conductor	Color	Size	From Contact PN
C5.1	QC3	W5.Red	Red	1.5 mm ²	
C5.2	QC5	W6.Red	Red	1.5 mm ²	
C5.3	QC7	W7.Red	Red	1.5 mm ²	
C5.4	QC9	W8.Red	Red	1.5 mm ²	
C5.5	QC4	W3.Black	Black	1.5 mm ²	
C5.5	QC6	W4.Black	Black	1.5 mm ²	
C5.6	QC8	W9.Black	Black	1.5 mm ²	
C5.6	QC10	W10.Black	Black	1.5 mm ²	
C5.7	LW1	W1.Orange	Orange	2.5 mm ²	
C5.8	LW2	W2.Orange	Orange	2.5 mm ²	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
3	Connector	TE Connectivity - Deutsch	DT06-08P	1
4	Wire		2.5 mm ² Orange	650 mm
6	Wire		1.5 mm ² Red	1100 mm
8	Wire		1.5 mm ² Black	1100 mm
9	Quick Connect Terminal		16-14 AWG Blue Female	8
10	Label		Generic White Label	6
11	Label		Yellow Label	10
13	Tape		Red Tape	

Coverings	
Id	Assembly
[13]	

From	To	Conductor	Color	Size
QC3	C5.1	W5.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
QC4	C5.5	W3.Black	Black	1.5 mm ²

From	To	Conductor	Color	Size
QC5	C5.2	W6.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
QC6	C5.5	W4.Black	Black	1.5 mm ²

From	To	Conductor	Color	Size
QC7	C5.3	W7.Red	Red	1.5 mm ²

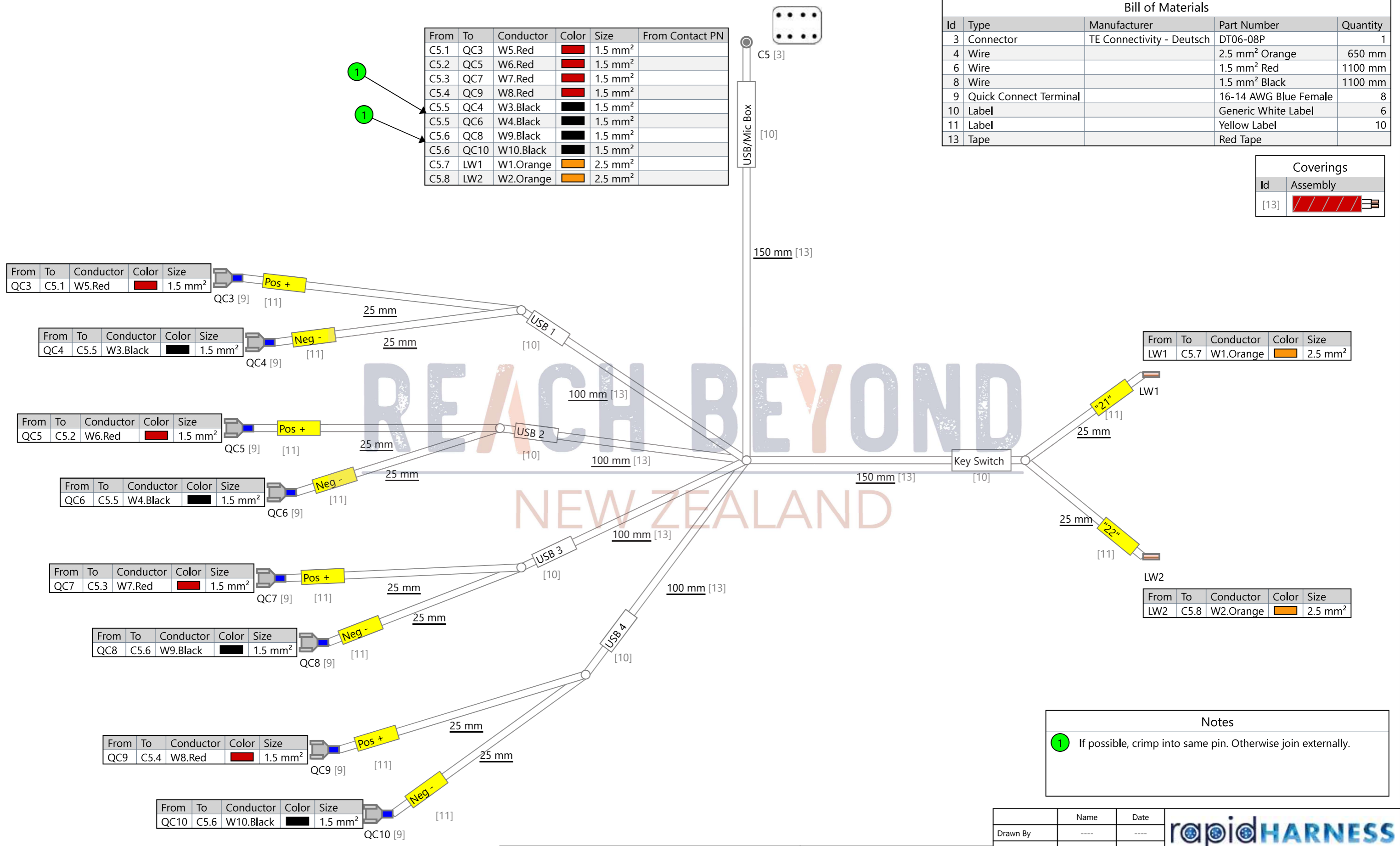
From	To	Conductor	Color	Size
QC8	C5.6	W9.Black	Black	1.5 mm ²

From	To	Conductor	Color	Size
QC9	C5.4	W8.Red	Red	1.5 mm ²

From	To	Conductor	Color	Size
QC10	C5.6	W10.Black	Black	1.5 mm ²

From	To	Conductor	Color	Size
LW1	C5.7	W1.Orange	Orange	2.5 mm ²

From	To	Conductor	Color	Size
LW2	C5.8	W2.Orange	Orange	2.5 mm ²



Notes

1 If possible, crimp into same pin. Otherwise join externally.

Title	USB Chargers/Microphone Box	Part Number	PV03.01-W004
Description	INT USB/Mic Box	Revision	1.01

	Name	Date
Drawn By	----	----
Eng Approved	----	----
Mfg Approved	----	----
QA	----	----

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Title:	USB Chargers/Microphone Box (REVISIONS)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.

REACH BEYOND

NEW ZEALAND

Title:	USB Chargers/Microphone Box (NOTES)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

Flag	Quantity	Note
1	2	If possible, crimp into same pin. Otherwise join externally.

REACH BEYOND

NEW ZEALAND








Title:	USB Chargers/Microphone Box (BOM)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
3	Connector	TE Connectivity - Deutsch	DT06-08P	TE Connectivity - Deutsch DT Series Connector	1	C5
4	Wire		2.5 mm ² Orange	Generic Wire	650 mm	W1, W2
6	Wire		1.5 mm ² Red	Generic Wire	1100 mm	W5, W6, W7, W8
8	Wire		1.5 mm ² Black	Generic Wire	1100 mm	W3, W4, W9, W10
9	Quick Connect Terminal		16-14 AWG Blue Female	Generic Quick Connect Terminal	8	QC3, QC4, QC5, QC6, QC7, QC8, QC9, QC10
10	Label		Generic White Label	Generic Label	6	See Drawing
11	Label		Yellow Label	Generic Label	10	See Drawing
13	Tape		Red Tape	Generic Tape		See Drawing

REACH BEYOND

NEW ZEALAND

Title:	USB Chargers/Microphone Box (WIRING TABLE)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
C5.1	QC3	 W5.Red	1.5 mm ² Red		1.5 mm ²	275 mm		USB 1 +
C5.2	QC5	 W6.Red	1.5 mm ² Red		1.5 mm ²	275 mm		USB 2 +
C5.3	QC7	 W7.Red	1.5 mm ² Red		1.5 mm ²	275 mm		USB 3 +
C5.4	QC9	 W8.Red	1.5 mm ² Red		1.5 mm ²	275 mm		USB 4 +
C5.5	QC4	 W3.Black	1.5 mm ² Black		1.5 mm ²	275 mm		USB 1 -
C5.5	QC6	 W4.Black	1.5 mm ² Black		1.5 mm ²	275 mm		USB 2 -
C5.6	QC8	 W9.Black	1.5 mm ² Black		1.5 mm ²	275 mm		USB 3 -
C5.6	QC10	 W10.Black	1.5 mm ² Black		1.5 mm ²	275 mm		USB 4 -
C5.7	LW1	 W1.Orange	2.5 mm ² Orange		2.5 mm ²	325 mm		Switch
C5.8	LW2	 W2.Orange	2.5 mm ² Orange		2.5 mm ²	325 mm		Switch

REACH BEYOND
NEW ZEALAND

Title:	USB Chargers/Microphone Box (CUTLIST)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1	Wire	W1		2.5 mm ² Orange	Orange	2.5 mm ²			325 mm		Switch
2	Wire	W2		2.5 mm ² Orange	Orange	2.5 mm ²			325 mm		Switch
3	Wire	W3		1.5 mm ² Black	Black	1.5 mm ²			275 mm		USB 1 -
4	Wire	W4		1.5 mm ² Black	Black	1.5 mm ²			275 mm		USB 2 -
5	Wire	W5		1.5 mm ² Red	Red	1.5 mm ²			275 mm		USB 1 +
6	Wire	W6		1.5 mm ² Red	Red	1.5 mm ²			275 mm		USB 2 +
7	Wire	W7		1.5 mm ² Red	Red	1.5 mm ²			275 mm		USB 3 +
8	Wire	W8		1.5 mm ² Red	Red	1.5 mm ²			275 mm		USB 4 +
9	Wire	W9		1.5 mm ² Black	Black	1.5 mm ²			275 mm		USB 3 -
10	Wire	W10		1.5 mm ² Black	Black	1.5 mm ²			275 mm		USB 4 -

REACH BEYOND

NEW ZEALAND



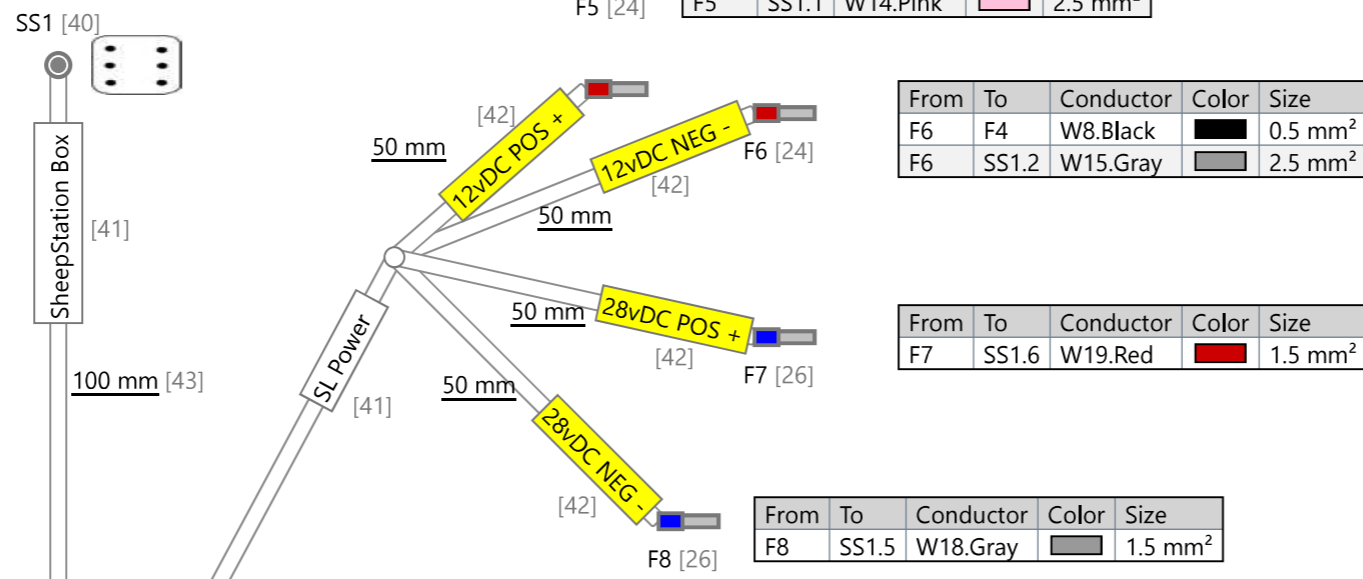
Title:	USB Chargers/Microphone Box (LABELS)
Part Number:	PV03.01-W004
Description:	INT USB/Mic Box

#	Manufacturer	Part Number	Description	Label Text
1		Generic White Label	Generic Label	Key Switch
2		Generic White Label	Generic Label	USB 1
3		Generic White Label	Generic Label	USB 2
4		Generic White Label	Generic Label	USB 3
5		Generic White Label	Generic Label	USB 4
6		Generic White Label	Generic Label	USB/Mic Box
7		Yellow Label	Generic Label	"21"
8		Yellow Label	Generic Label	"22"
9		Yellow Label	Generic Label	Neg -
10		Yellow Label	Generic Label	Neg -
11		Yellow Label	Generic Label	Neg -
12		Yellow Label	Generic Label	Neg -
13		Yellow Label	Generic Label	Pos +
14		Yellow Label	Generic Label	Pos +
15		Yellow Label	Generic Label	Pos +
16		Yellow Label	Generic Label	Pos +

REACH BEYOND
NEW ZEALAND



From	To	Conductor	Color	Size
SS1.1	F5	W14.Pink		2.5 mm ²
SS1.2	F6	W15.Gray		2.5 mm ²
SS1.3	F9	W16.Orange		2.5 mm ²
SS1.4	F10	W17.Green		2.5 mm ²
SS1.5	F8	W18.Gray		1.5 mm ²
SS1.6	F7	W19.Red		1.5 mm ²



From	To	Conductor	Color	Size
F5	F3	W5.Red		0.5 mm ²
F5	SS1.1	W14.Pink		2.5 mm ²

From	To	Conductor	Color	Size
F6	F4	W8.Black		0.5 mm ²
F6	SS1.2	W15.Gray		2.5 mm ²

From	To	Conductor	Color	Size
F7	SS1.6	W19.Red		1.5 mm ²

From	To	Conductor	Color	Size
F8	SS1.5	W18.Gray		1.5 mm ²

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
24	Ferrule		Unspecified gauge Red	2
26	Ferrule		Unspecified gauge Blue	4
29	Ferrule		E1006 Twin - Red	2
30	Wire		0.5 mm ² Red	1000 mm
31	Wire		0.5 mm ² Black	950 mm
32	Ferrule		E0506 - White	2
34	Wire		2.5 mm ² Pink	250 mm
35	Wire		2.5 mm ² Gray	250 mm
36	Wire		2.5 mm ² Orange	200 mm
37	Wire		2.5 mm ² Green	200 mm
38	Wire		1.5 mm ² Gray	250 mm
39	Wire		1.5 mm ² Red	250 mm
40	Connector	TE Connectivity - Deutsch	DT04-6P	1
41	Label		Generic White Label	4
42	Label		Yellow Label	12
43	Tape		Blue Tape	
44	Connector		Starlink Mini Power Plug	1
45	Connector		Starlink Ethernet Connector	1
46	Connector			2

Coverings	
Id	Assembly
[43]	

From	To	Conductor	Color	Size
F9	SS1.3	W16.Orange		2.5 mm ²

From	To	Conductor	Color	Size
F10	SS1.4	W17.Green		2.5 mm ²

From	To	Conductor	Color	Size
C1.1	C6.1	W2.Black		0.5 mm ²
C1.1	F1	W7.Red		0.5 mm ²
C1.2	C6.2	W1.Red		0.5 mm ²
C1.2	F4	W13.Black		0.5 mm ²

From	To	Conductor	Color	Size
F2	F3	W6.Red		0.5 mm ²

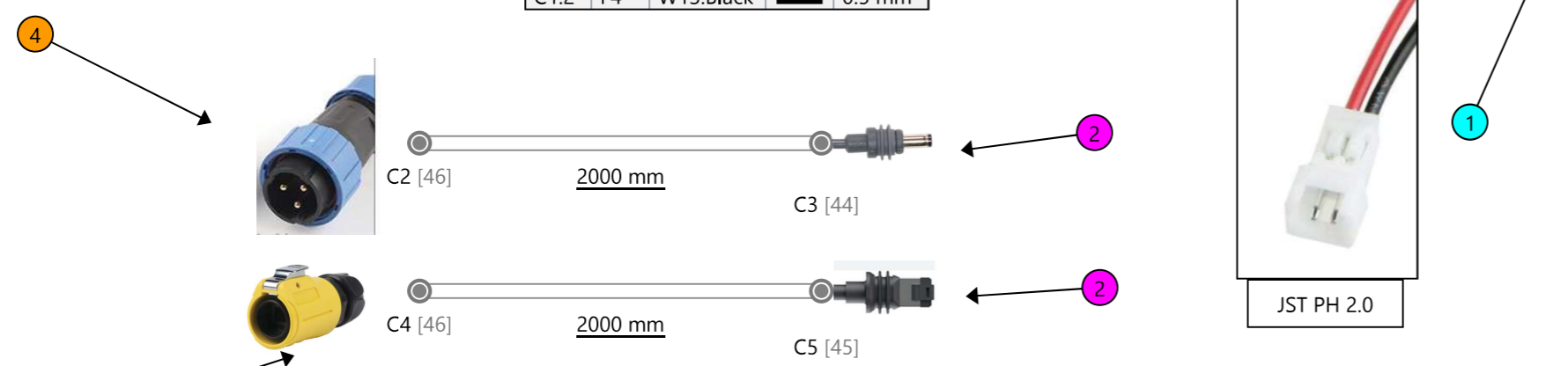
From	To	Conductor	Color	Size
F3	F2	W6.Red		0.5 mm ²
F3	F5	W5.Red		0.5 mm ²

From	To	Conductor	Color	Size
F4	C1.2	W13.Black		0.5 mm ²
F4	F6	W8.Black		0.5 mm ²

From	To	Conductor	Color	Size
F1	C1.1	W7.Red		0.5 mm ²

From	To	Conductor	Color	Size
C6.1	C1.1	W2.Black		0.5 mm ²
C6.2	C1.2	W1.Red		0.5 mm ²

Notes	
	Connector is JST PH2 Male
	Use pre-made cables. See photos.
	Cut off 1 end of pre-made cable. Terminate to RJ-45 using T-568B standard. TP20 connector goes on outside of RJ-45 connection.
	Cut off 1 end of pre-made cable. Terminate each wire into a ferrule. Terminate ferrules into the 2 pin connector.



Title	Sheepstation/Starlink Box	Part Number	PV03.01-W005
Description	INT SS Box/SL Ext	Revision	1.01

	Name	Date	
Drawn By	----	----	
Eng Approved	----	----	
Mfg Approved	----	----	
QA	----	----	

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Title:	Sheepstation/Starlink Box (REVISIONS)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

Rev.	Date	Author	Description
1.01	19-Mar-26	J. Russell	Initial design.
1.02	30-Mar-26	J. Russell	Connectors C1 & C6 are now JST PH 2.0 male. Changed wiring to C6.

REACH BEYOND

NEW ZEALAND

Title:	Sheepstation/Starlink Box (NOTES)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

Flag	Quantity	Note
1	2	Connector is JST PH2 Male
2	2	Use pre-made cables. See photos.
3	1	Cut off 1 end of pre-made cable. Terminate to RJ-45 using T-568B standard. TP20 connector goes on outside of RJ-45 connection.
4	1	Cut off 1 end of pre-made cable. Terminate each wire into a ferrule. Terminate ferrules into the 2 pin connector.

REACH BEYOND

NEW ZEALAND

Title:	Sheepstation/Starlink Box (BOM)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
24	Ferrule		Unspecified gauge Red	Generic Ferrule	2	F5, F6
26	Ferrule		Unspecified gauge Blue	Generic Ferrule	4	F7, F8, F9, F10
29	Ferrule		E1006 Twin - Red	Twin Ferrule 2x 0.50mm	2	F3, F4
30	Wire		0.5 mm ² Red	Generic Wire	1000 mm	W1, W5, W6, W7
31	Wire		0.5 mm ² Black	Generic Wire	950 mm	W2, W8, W13
32	Ferrule		E0506 - White	Ferrule 1x 0.50mm	2	F1, F2
34	Wire		2.5 mm ² Pink	Generic Wire	250 mm	W14
35	Wire		2.5 mm ² Gray	Generic Wire	250 mm	W15
36	Wire		2.5 mm ² Orange	Generic Wire	200 mm	W16
37	Wire		2.5 mm ² Green	Generic Wire	200 mm	W17
38	Wire		1.5 mm ² Gray	Generic Wire	250 mm	W18
39	Wire		1.5 mm ² Red	Generic Wire	250 mm	W19
40	Connector	TE Connectivity - Deutsch	DT04-6P	TE Connectivity - Deutsch DT Series Connector	1	SS1
41	Label		Generic White Label	Generic Label	4	See Drawing
42	Label		Yellow Label	Generic Label	12	See Drawing
43	Tape		Blue Tape	Generic Tape		See Drawing
44	Connector		Starlink Mini Power Plug		1	C3
45	Connector		Starlink Ethernet Connector		1	C5
46	Connector				2	C2, C4

REACH BEYOND
NEW ZEALAND

Title:	Sheepstation/Starlink Box (WIRING TABLE)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
C1.1	C6.1	■ W2.Black	0.5 mm ² Black		0.5 mm ²	300 mm		Fan 2 -
C1.2	C6.2	■ W1.Red	0.5 mm ² Red		0.5 mm ²	300 mm		Fan 2 +
C2.1	C3.1					2000 mm		
C4.1	C5.1					2000 mm		
F1	C1.1	■ W7.Red	0.5 mm ² Red		0.5 mm ²	350 mm		Fan +
F3	F2	■ W6.Red	0.5 mm ² Red		0.5 mm ²	50 mm		Fan IN
F4	C1.2	■ W13.Black	0.5 mm ² Black		0.5 mm ²	350 mm		Fan -=
F5	F3	■ W5.Red	0.5 mm ² Red		0.5 mm ²	300 mm		Thermostat +
F6	F4	■ W8.Black	0.5 mm ² Black		0.5 mm ²	300 mm		Thermostat -
SS1.1	F5	■ W14.Pink	2.5 mm ² Pink		2.5 mm ²	250 mm		SL+
SS1.2	F6	■ W15.Gray	2.5 mm ² Gray		2.5 mm ²	250 mm		SL -
SS1.3	F9	■ W16.Orange	2.5 mm ² Orange		2.5 mm ²	200 mm		SS +
SS1.4	F10	■ W17.Green	2.5 mm ² Green		2.5 mm ²	200 mm		SS -
SS1.5	F8	■ W18.Gray	1.5 mm ² Gray		1.5 mm ²	250 mm		28v -
SS1.6	F7	■ W19.Red	1.5 mm ² Red		1.5 mm ²	250 mm		28v +

REACH BEYOND
NEW ZEALAND

Title:	Sheepstation/Starlink Box (CUTLIST)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1	Wire	W1		0.5 mm ² Red	Red	0.5 mm ²			300 mm		Fan 2 +
2	Wire	W2		0.5 mm ² Black	Black	0.5 mm ²			300 mm		Fan 2 -
3	Wire	W5		0.5 mm ² Red	Red	0.5 mm ²			300 mm		Thermostat +
4	Wire	W6		0.5 mm ² Red	Red	0.5 mm ²			50 mm		Fan IN
5	Wire	W7		0.5 mm ² Red	Red	0.5 mm ²			350 mm		Fan +
6	Wire	W8		0.5 mm ² Black	Black	0.5 mm ²			300 mm		Thermostat -
7	Wire	W13		0.5 mm ² Black	Black	0.5 mm ²			350 mm		Fan -=
8	Wire	W14		2.5 mm ² Pink	Pink	2.5 mm ²			250 mm		SL+
9	Wire	W15		2.5 mm ² Gray	Gray	2.5 mm ²			250 mm		SL -
10	Wire	W16		2.5 mm ² Orange	Orange	2.5 mm ²			200 mm		SS +
11	Wire	W17		2.5 mm ² Green	Green	2.5 mm ²			200 mm		SS -
12	Wire	W18		1.5 mm ² Gray	Gray	1.5 mm ²			250 mm		28v -
13	Wire	W19		1.5 mm ² Red	Red	1.5 mm ²			250 mm		28v +
14		C2.1 - C3.1							2000 mm		
15		C4.1 - C5.1							2000 mm		

REACH BEYOND
NEW ZEALAND

Title:	Sheepstation/Starlink Box (LABELS)
Part Number:	PV03.01-W005
Description:	INT SS Box/SL Ext

#	Manufacturer	Part Number	Description	Label Text
1		Generic White Label	Generic Label	Fan/Thermostat
2		Generic White Label	Generic Label	SL Power
3		Generic White Label	Generic Label	SS Power
4		Generic White Label	Generic Label	SheepStation Box
5		Yellow Label	Generic Label	"+12v"
6		Yellow Label	Generic Label	"GND"
7		Yellow Label	Generic Label	"K0"
8		Yellow Label	Generic Label	"K1"
9		Yellow Label	Generic Label	12vDC NEG -
10		Yellow Label	Generic Label	12vDC POS +
11		Yellow Label	Generic Label	28vDC NEG -
12		Yellow Label	Generic Label	28vDC POS +
13		Yellow Label	Generic Label	Fan 2
14		Yellow Label	Generic Label	Fan Power
15		Yellow Label	Generic Label	NEG -
16		Yellow Label	Generic Label	POS +

REACH BEYOND
NEW ZEALAND