

Wirelist

Twisted Pairs	Conn.Pin	Signal	Wire	Color	AWG	Conn.Pin
Pair A	P1.1	X axis	W1	RED	22	P2.7
Pair B	P1.2	Y axis	W2	RED	22	P2.8
Pair C	P1.3	Red	W3	RED	22	P2.1
Pair D	P1.4	Green	W4	RED	22	P2.2
Pair E	P1.5	Blue	W5	RED	22	P2.3
	P1.6	nc				
Pair A	P1.7	X return		BLK	22	P2.10
Pair B	P1.8	Y return		BLK	22	P2.11
Pair C	P1.9	Red return		BLK	22	P2.4
Pair D	P1.10	Green return		BLK	22	P2.5
Pair E	P1.11	Blue return		BLK	22	P2.6
	P1.12	nc				
	P3.1	nc			nc	P2.9
	P3.2	nc			nc	P2.12
	P3.3	nc				
	P3.4	nc				
	P3.5	nc				
	P3.6	nc				
	P3.7	nc				
	P3.8	nc				
	P3.9	nc				
	P3.10 (Male)	30VAC_1	W6	YEL	16	P2.13
	P3.11 (Male)	CT	W7	RED	16	P2.14
	P3.12	nc				
	P3.13 (Fem)	30VAC_2	W8	YEL	16	P2.15
	P3.14	nc				
	P3.15	nc				

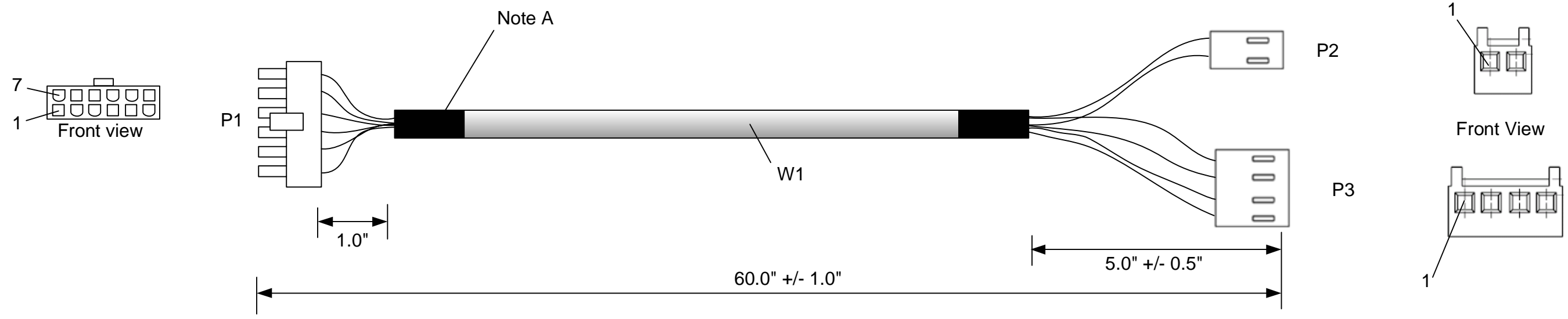
Note A: Nylon wire tie every 12"

Note B: Twist pairs 8 to 10 twists per foot

<b>ZEKTOR</b>	12675 Danielson Ct Suite 401 Poway, CA 92064 (858)748-8250 Fax:(858)748-8224
Title: Cable Assy, ZVG to WG/AMP	
DWG No: 300-000001-A	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 1 of 1

Qty	UseAs	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
1	each	CONN Housing, 12p Minifit Jr	CONN Housing, 12p Minifit Jr	P1	Digikey	WM3705-ND	Molex	39-01-2120
1	each	CONN Housing, 15p AMP MNL	CONN Housing, 15p AMP MNL	P2	Mouser Electronics	571-14807100	AMP	1-480710-0
1	each	CONN Housing, 15p .093	CONN Housing, 15p .093	P3	Mouser Electronics	538-03-09-2159	Molex	03-09-2159
1	each	CONN Contact, fem. crimp .093	CONN Contact, fem. crimp .093	P3.13	Digikey	WM1103-ND	Molex	02-09-1119
2	each	CONN Contact Male .093	CONN Contact Male .093	P3.10, P3.11	Mouser Electronics	538-02-09-2118	Molex	02-09-2118
13	each	CONN Contact, female AMP	CONN Contact, female AMP	P2-ALL	Mouser Electronics	571-3505501	AMP	350550-1
10	each	CONN Contact, fem Minifit Jr.	CONN Contact, fem Minifit Jr.	P1-ALL	Digikey	WM2501-ND	Molex	39-00-0039
5	foot	WIRE, 16AWG stranded RED PVC, UL1007	WIRE, 16AWG stranded RED PVC, UL1007	W7				
10	foot	WIRE, 16AWG stranded YEL PVC, UL1007	WIRE, 16AWG stranded YEL PVC, UL1007	W6, W8				
8	each	WIRE TIE, 4" black	WIRE TIE, 4" black	NOTE A				
25	foot	WIRE, TWISTED RED/BLK 22AWG stranded	WIRE, TWISTED RED/BLK 22AWG stranded	W1-W5				

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Title: Cable Assy, ZVG to WG/AMP	
DWG No: 300-000001-A	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 2 of 2



Wirelist

Pairs	Conn.Pin	Signal	Color	Conn.Pin
Pair A	P1.1	X axis	BLU	P3.3
Pair B	P1.2	Y axis	GRN	P3.1
	P1.3	nc		
Pair C	P1.4	Green	ORG	P2.2
	P1.5	nc		
	P1.6	nc		
Pair A	P1.7	X return	BLU/WHT	P3.4
Pair B	P1.8	Y return	GRN/WHT	P3.2
	P1.9	nc		
Pair C	P1.10	Green return	ORG/WHT	P2.1
	P1.11	nc		
	P1.12	nc		

Note A: Heat shrink 2 places

<b>ZEKTOR</b>	12675 Danielson Ct.Suite401 Poway, CA 92064 (858)748-8250 Fax:(858)748-8224
Title: Cable Assy, ZVG to VECTREX	
DWG No: DWG300-000002-B.VSD	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 1 of 2

Qty	Use As	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
5	foot	CABLE, CAT5 24AWG stranded 4 pair	CABLE, CAT5 24AWG stranded 4 pair	W1				
1	each	CONN Housing, 12p Minifit Jr	CONN Housing, 12p Minifit Jr	P1	Digikey	WM3705-ND	Molex	39-01-2120
6	each	CONN Contact, fem Minifit Jr.	CONN Contact, fem Minifit Jr.	P1.all	Digikey	WM2501-ND	Molex	39-00-0039
1	each	CONN housing, 4p .100 KK	CONN housing, 4p .100 KK	P3	Mouser Electronics	538-22-01-3047	Molex	22-01-3047
1	each	CONN housing, 2p .100 KK	CONN housing, 2p .100 KK	P2	Mouser Electronics	538-22-01-3027	Molex	22-01-3027
6	each	CONN contact, 30-22AWG .100 KK	CONN contact, 30-22AWG .100 KK	P2.all, P3.all	Mouser Electronics	538-08-50-0114	Molex	08-50-0114
2	each	HEATSHRINK 3:1 1/2" X 2-1/2" BLK "ZEKTOR"	HEATSHRINK 3:1 1/2" X 2-1/2" BLK "ZEKTOR"	NOTE A				

**ZEKTOR** 12675 Danielson Ct.Suite401 Poway, CA 92064  
(858)748-8250 Fax:(858)748-8224

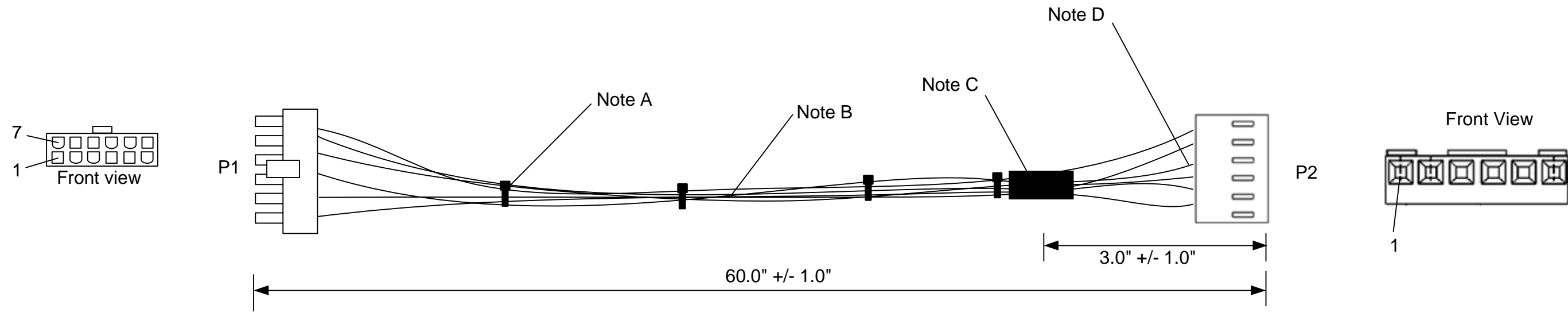
Title: Cable Assy, ZVG to VECTREX

DWG No: DWG300-000002-B.VSD

Engineer: Zonn Moore

Date: 8/30/06

Sheet 2 of 2



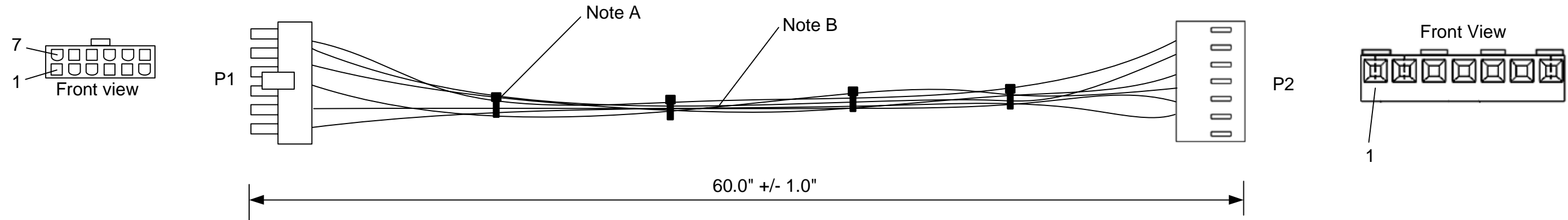
Wirelist

Pairs	Conn.Pin	Signal	Wire	Color	AWG	Conn.Pin
Pair A	P1.1	X axis	W1	RED	22	P2.6
Pair B	P1.2	Y axis	W2	RED	22	P2.5
Pair C	P1.3	Red	W3	RED	22	P2.3
Pair D	P1.4	Green	W4	RED	22	P2.2
Pair E	P1.5	Blue	W5	RED	22	P2.1
	P1.6	nc				
Pair A	P1.7	X return		BLK	22	P2.4
Pair B	P1.8	Y return		BLK	22	P2.4
Pair C	P1.9	Red return		BLK	22	nc
Pair D	P1.10	Green return		BLK	22	nc
Pair E	P1.11	Blue return		BLK	22	nc
	P1.12	nc				

- Note A: Nylon wire tie every 12"
- Note B: Twist pairs 8 to 10 twists per foot
- Note C: The three extra black wires that do not connect through at P2 shall be cut short, and covered in heatshrink over the entire bundle. Place one wire tie within one inch of the heatshrink so the black wires do not back out.
- Note D: Crimp two wires into P2.4

Qty	UseAs	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
1	each	CONN Housing, 12p Minifit Jr	CONN Housing, 12p Minifit Jr	P1	Digikey	WM3705-ND	Molex	39-01-2120
10	each	CONN Contact, fem Minifit Jr.	CONN Contact, fem Minifit Jr.	P1.all	Digikey	WM2501-ND	Molex	39-00-0039
6	each	CONN Contact, Crimp .156	CONN Contact, Crimp .156	P2.all	Digikey	WM2300	Molex	08-50-0106
1	each	CONN Housing, .156 KK 6p	CONN Housing, .156 KK 6p	P2	Digikey		Molex	09-50-8063
1	each	HEATSHRINK, 2:1 3/8"x 1" BLK	HEATSHRINK, 2:1 3/8"x 1" BLK	Note C				
25	foot	WIRE, TWISTED RED/BLK 22AWG stranded	WIRE, TWISTED RED/BLK 22AWG stranded	W1-W5				

<b>ZEKTOR</b>	12675 Danielson Ct Suite 401 Poway, CA 92064 (858)748-8250 Fax:(858)748-8224
Title: Cable Assy, ZVG to G08	
DWG No: DWG300-000003-A.VSD	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 2 of 2



Wirelist

Pairs	Conn.Pin	Signal	Wire	Color	AWG	Conn.Pin
Pair A	P1.1	X axis	W1	RED	22	P2.1
Pair B	P1.2	Y axis	W2	RED	22	P2.3
	P1.3	nc				
Pair C	P1.4	Z axis	W3	RED	22	P2.5
	P1.5	nc				
	P1.6	nc				
Pair A	P1.7	X return		BLK	22	P2.2
Pair B	P1.8	Y return		BLK	22	P2.4
	P1.9	nc				
Pair C	P1.10	Z return		BLK	22	P2.7
	P1.11	nc				
	P1.12	nc			nc	P2.6

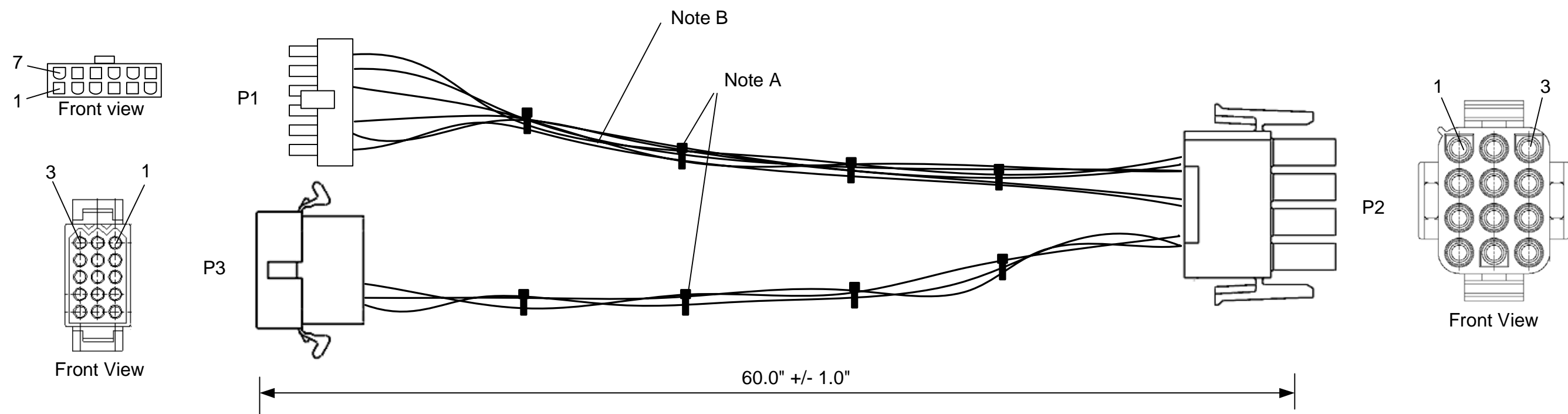
Note A: Nylon wire tie every 12"

Note B: Twist pairs 8 to 10 twists per foot

<b>ZEKTOR</b>	12675 Danielson Ct Suite 401 Poway, CA 92064	
	(858)748-8250	Fax:(858)748-8224
Title: Cable Assy, ZVG to G05-801		
DWG No: DWG300-000004-A.VSD		
Engineer: Zonn Moore	Date: 8/30/06	Sheet 1 of 2

Qty	Use As	P/N	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
1	each	100-000023	CONN Housing, 12p Minifit Jr	CONN Housing, 12p Minifit Jr	P1	Digikey	WM3705-ND	Molex	39-01-2120
6	each	100-000019	CONN Contact, fem Minifit Jr.	CONN Contact, fem Minifit Jr.	P1-ALL	Digikey	WM2501-ND	Molex	39-00-0039
8	each	110-000010	WIRE TIE, 4" black	WIRE TIE, 4" black	NOTE A				
1	each	100-000027	CONN Housing, .156 KK 7p	CONN Housing, .156 KK 7p	P2	Digikey		Molex	09-50-8073
6	each	100-000018	CONN Contact, Crimp .156	CONN Contact, Crimp .156	P2-ALL	Digikey	WM2300	Molex	08-50-0106
15	foot	107-000020	WIRE, TWISTED RED/BLK 22AWG stranded	WIRE, TWISTED RED/BLK 22AWG stranded	W1-W3				

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Title: Cable Assy, ZVG to G05-801	
DWG No: DWG300-000004-A.VSD	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 2 of 2



Wirelist

Pairs	Conn.Pin	Signal	Wire	Color	AWG	Conn.Pin
Pair A	P1.1	X axis	W1	RED	22	P2.3
Pair B	P1.2	Y axis	W2	RED	22	P2.2
	P1.3	nc				
Pair C	P1.4	Z axis	W3	RED	22	P2.1
	P1.5	nc				
	P1.6	nc				
Pair A	P1.7	X return		BLK	22	P2.6
Pair B	P1.8	Y return		BLK	22	P2.5
	P1.9	nc				
Pair C	P1.10	Z return		BLK	22	P2.8
	P1.11	nc				
	P1.12	nc			nc	P2.4
	P3.1	nc				
	P3.2	nc				
	P3.3	nc				
	P3.4	nc				
	P3.5	nc				
	P3.6	nc				
	P3.7	nc				
	P3.8	6.3V Heater	W4	BLU	18	P2.12
	P3.9	6.3V Return	W5	BLU	18	P2.9
	P3.10	nc				
	P3.11	30VAC_1	W6	YEL	16	P2.7
	P3.12	CT	W7	RED	16	P2.11
	P3.13	30VAC_2	W8	YEL	16	P2.10
	P3.14	nc				

Note A: Nylon wire tie every 12"

Note B: Twist pairs 8 to 10 twists per foot

<b>ZEKTOR</b>	12675 Danielson Ct Suite 401 Poway, CA 92064 (858)748-8250 Fax:(858)748-8224
Title: Cable Assy, ZVG to G05-802/805	
DWG No: DWG300-000005-A.VSD	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 1 of 2

Qty	UseAs	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
1	each	CONN Housing, 12p Minifit Jr	CONN Housing, 12p Minifit Jr	P1	Digikey	WM3705-ND	Molex	39-01-2120
1	each	CONN Housing, 15p AMP MNL	CONN Housing, 15p AMP MNL	P2	Mouser Electronics	571-14807100	AMP	1-480710-0
1	each	CONN Housing, 15p .093	CONN Housing, 15p .093	P3	Mouser Electronics	538-03-09-2159	Molex	03-09-2159
5	each	CONN Contact Male .093	CONN Contact Male .093	P3-ALL	Mouser Electronics	538-02-09-2118	Molex	02-09-2118
11	each	CONN Contact, female AMP	CONN Contact, female AMP	P2-ALL	Mouser Electronics	571-3505501	AMP	350550-1
6	each	CONN Contact, fem Minifit Jr.	CONN Contact, fem Minifit Jr.	P1-ALL	Digikey	WM2501-ND	Molex	39-00-0039
10	foot	WIRE, 18AWG stranded BLU PVC, UL1007	WIRE, 18AWG stranded BLU PVC, UL1007	W4, W5				
5	foot	WIRE, 16AWG stranded RED PVC, UL1007	WIRE, 16AWG stranded RED PVC, UL1007	W7				
10	foot	WIRE, 16AWG stranded YEL PVC, UL1007	WIRE, 16AWG stranded YEL PVC, UL1007	W6, W8				
8	each	WIRE TIE, 4" black	WIRE TIE, 4" black	NOTE A				
15	foot	WIRE, TWISTED RED/BLK 22AWG stranded	WIRE, TWISTED RED/BLK 22AWG stranded	W1-W3				

<b>ZEKTOR</b>	12675 Danielson Ct Suite 401 Poway, CA 92064 (858)748-8250 Fax:(858)748-8224
Title: Cable Assy, ZVG to G05-802/805	
DWG No: DWG300-000005-A.VSD	
Engineer: Zonn Moore	Date: 8/30/06 Sheet 2 of 2