

REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" & "B" PN; Notes	06/03/22	BAF

FROM	POS	COLOR	TO	POS
X1	1	GY	X1-2	A
X1	2	OR	X1-1	1
X1	3	RD/WH	N/C	N/C
X1	4	BK	X1-1	2
X1	4	BK	X1-2	B

NOT DRAWN TO SCALE

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0004	MX150L Assy FEMALE RCPT, 2x2, CPA, BK, 14-16 AWG
B	1	33481-2201	MX150 Assy MALE PLUG, 1x2, CPA, BK, KEY A, 14-16 AWG
		33481-0201	*MAY BE SUBSTITUTED FOR ITEM B
C	1	12010973	APTIV Assy, MALE, Weather-Pack Sealed, 1x2

NOTES:

- ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150. Refer to APTIV Documentation as appropriate.
- Exposed ends and junctions of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.
- Free Wire end to be capped with black polyolefin adhesive lined heat shrink minimum 1 inch total in length OR polyolefin adhesive lined heat shrink "cap".
- Connection between wires to be made with a Terminal Crimp Band. Actual Terminal crimp Band selection and application to be in accordance with manufacturer's guidelines for the chosen wire size. Connection and to be sealed with adhesive lined polyolefin heat shrink.
- Black TechFlex Flexo PET or equivalent sized according to the wire bundle.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE		AVWS/ACU POWER HARNESS, MAIN			
INCH					
TOLERANCES					
+/- 0.125 Unless Otherwise Specified					
		Alert Warning Systems, Inc			
		10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY	DATE	SIZE	FSCM NO	DWG NO	REV
BAF	2022/05/20	LTR	N/A	ACU-X1-MAIN	B
REVISED BY	DATE	SCALE	N/A	PN: ACU-X1-MAIN	SHEET
BAF	2022/06/03				1 OF 1

H

G

F

E

D

C

B

A

8

7

6

5

4

3

2

1

REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" Part Number	06/03/22	BAF

H

G

F

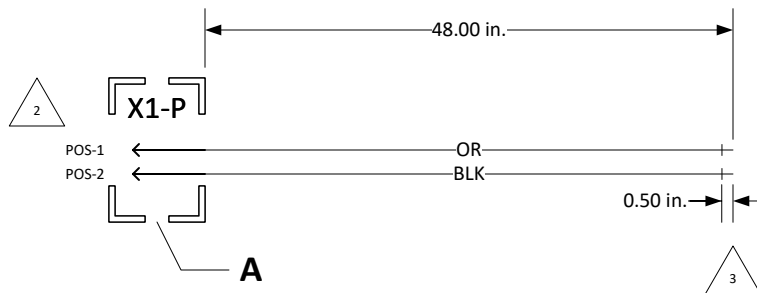
E

D

C

B

A



FROM	POS	COLOR	TO	POS
X1-P	1	OR	N/C	N/C
X1-P	2	BK	N/C	N/C

**NOT DRAWN TO SCALE**

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33471-0206	MX150 Assy FEMALE RCPT, 1x2, CPA, BLK, KEY A

**NOTES:**

- 1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- 2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
- 3 The free ends to be pre-cut 0.50 in. and partial stripped.

**NON DISCLOSURE AGREEMENT**

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.

© 2022 ALERT WARNING SYSTEMS

**DIMENSION STYLE**

INCH

**TOLERANCES**

+/- 0.125 Unless Otherwise Specified

**AVWS/ACU POWER****Alert Warning Systems, Inc**

10758 Trenton Ave, St. Louis, Missouri 63132

(314) 635-6500

**DRAWN BY**

BAF

**DATE**

2022/05/20

**REVISED BY**

BAF

**DATE**

2022/06/03

**SIZE**

LTR

**FSCM NO**

N/A

**DWG NO**

ACU-X1-POWER

**REV**

B

**SCALE**

N/A

**PN: ACU-X1-POWER****SHEET**

1 OF 1

8

7

6

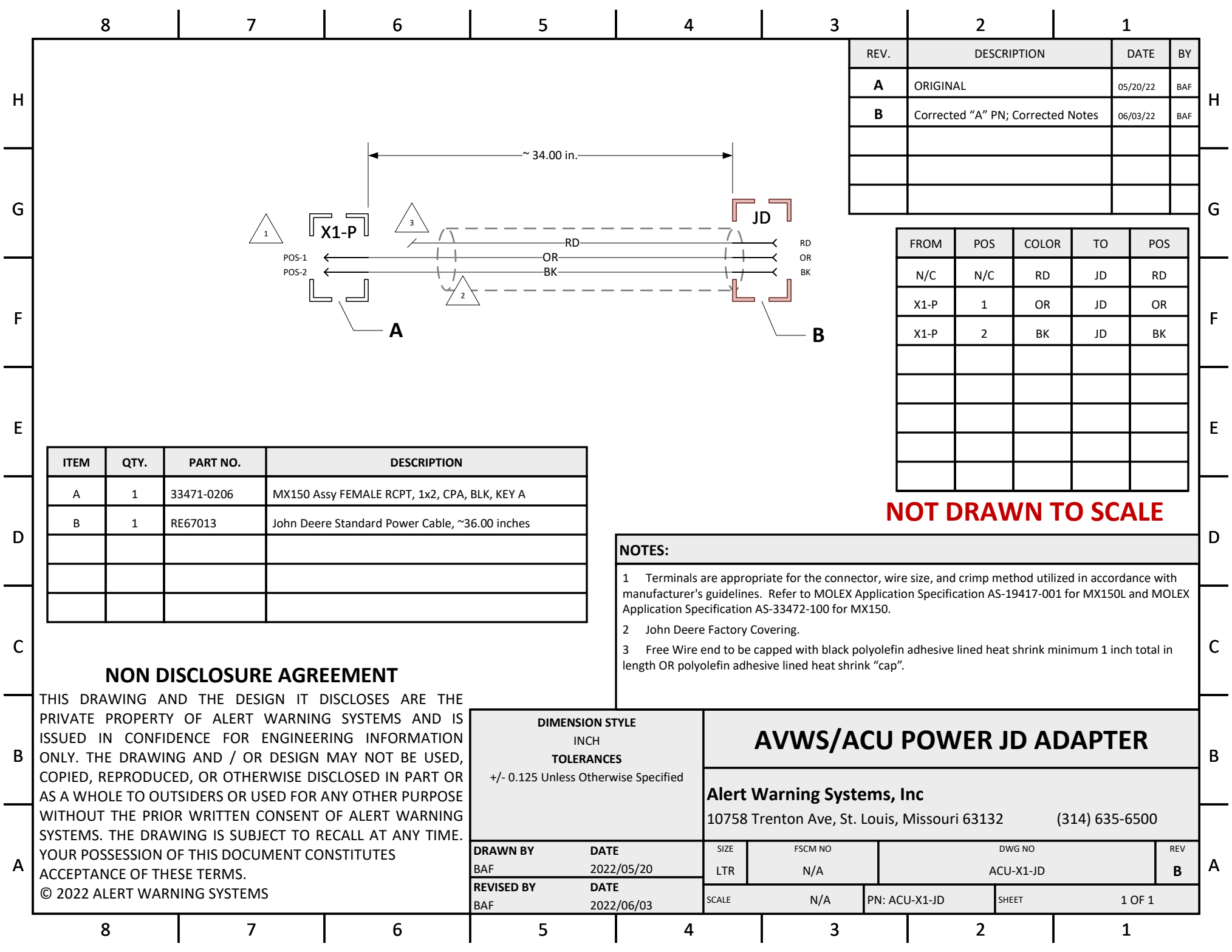
5

4

3

2

1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" PN; Corrected Notes	06/03/22	BAF

FROM	POS	COLOR	TO	POS
N/C	N/C	RD	JD	RD
X1-P	1	OR	JD	OR
X1-P	2	BK	JD	BK

NOT DRAWN TO SCALE

**NOTES:**

1 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

2 John Deere Factory Covering.

3 Free Wire end to be capped with black polyolefin adhesive lined heat shrink minimum 1 inch total in length OR polyolefin adhesive lined heat shrink "cap".

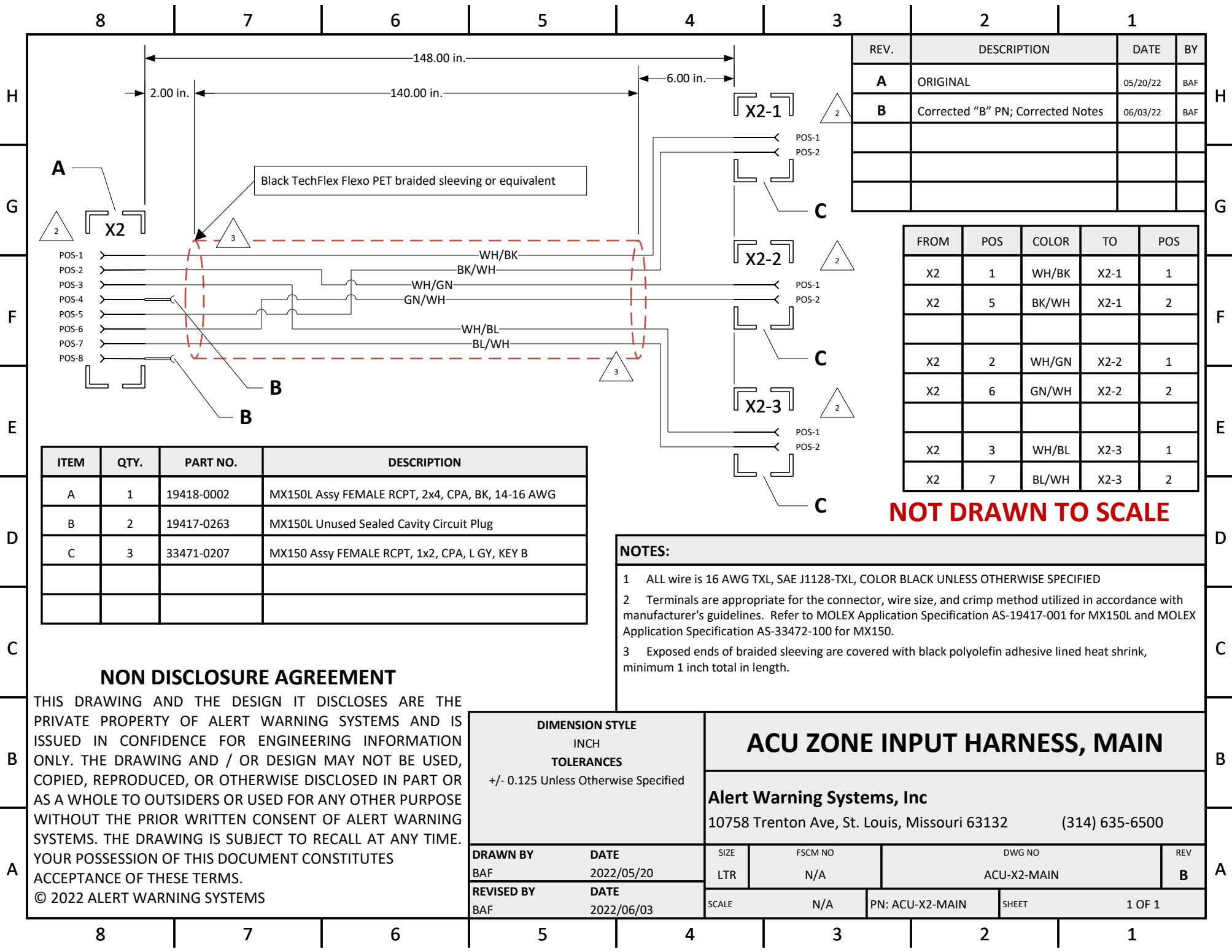
ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33471-0206	MX150 Assy FEMALE RCPT, 1x2, CPA, BLK, KEY A
B	1	RE67013	John Deere Standard Power Cable, ~36.00 inches

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.

© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE		AVWS/ACU POWER JD ADAPTER			
INCH					
TOLERANCES					
+/- 0.125 Unless Otherwise Specified					
		Alert Warning Systems, Inc			
		10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY	DATE	SIZE	FSCM NO	DWG NO	REV
BAF	2022/05/20	LTR	N/A	ACU-X1-JD	B
REVISED BY	DATE	SCALE	N/A	PN: ACU-X1-JD	SHEET
BAF	2022/06/03				1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "B" PN; Corrected Notes	06/03/22	BAF

FROM	POS	COLOR	TO	POS
X2	1	WH/BK	X2-1	1
X2	5	BK/WH	X2-1	2
X2	2	WH/GN	X2-2	1
X2	6	GN/WH	X2-2	2
X2	3	WH/BL	X2-3	1
X2	7	BL/WH	X2-3	2

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0002	MX150L Assy FEMALE RCPT, 2x4, CPA, BK, 14-16 AWG
B	2	19417-0263	MX150L Unused Sealed Cavity Circuit Plug
C	3	33471-0207	MX150 Assy FEMALE RCPT, 1x2, CPA, L GY, KEY B

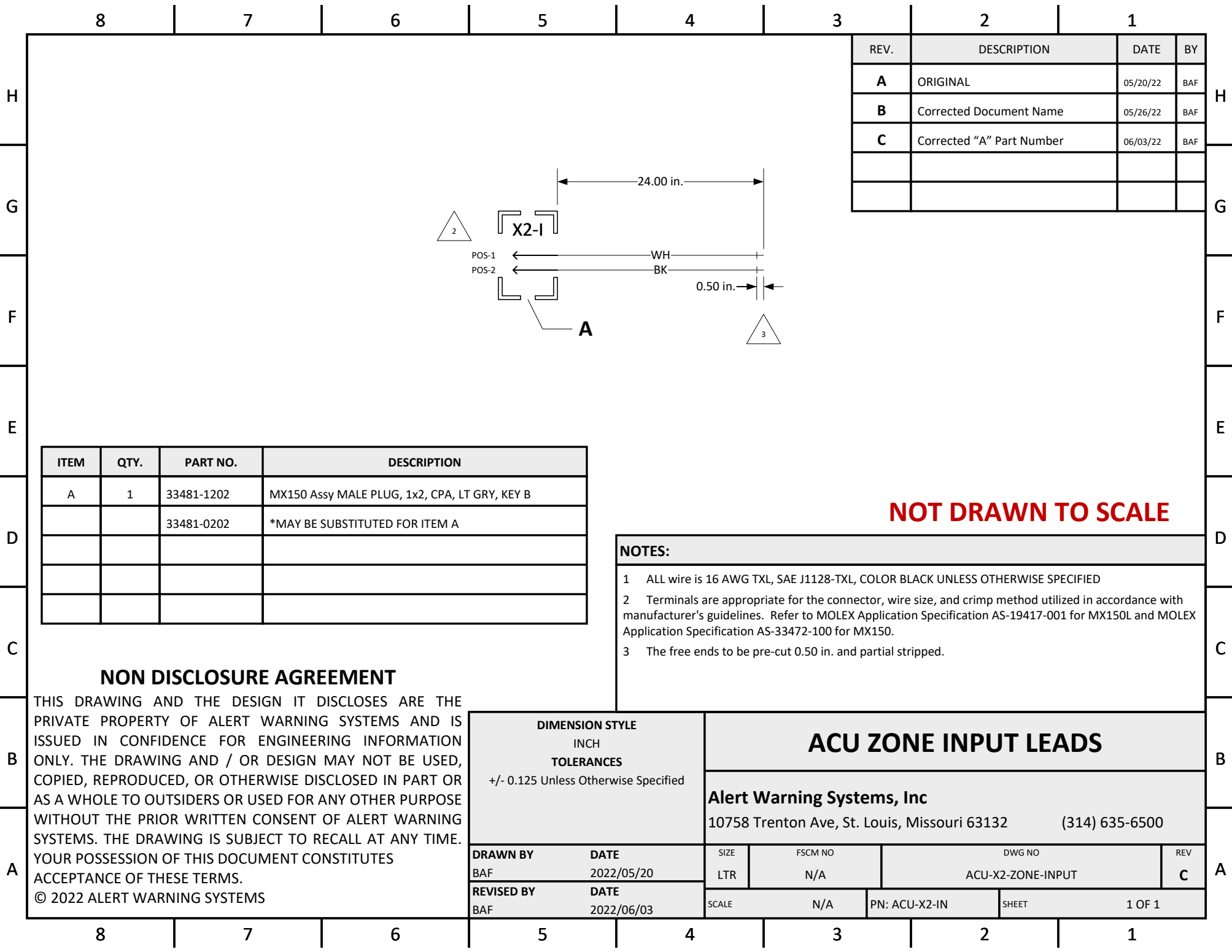
NOT DRAWN TO SCALE

NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 Exposed ends of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE INPUT HARNESS, MAIN			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO ACU-X2-MAIN	REV B
REVISED BY BAF	DATE 2022/06/03	SCALE	N/A	PN: ACU-X2-MAIN	SHEET 1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected Document Name	05/26/22	BAF
C	Corrected "A" Part Number	06/03/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-1202	MX150 Assy MALE PLUG, 1x2, CPA, LT GRY, KEY B
		33481-0202	*MAY BE SUBSTITUTED FOR ITEM A

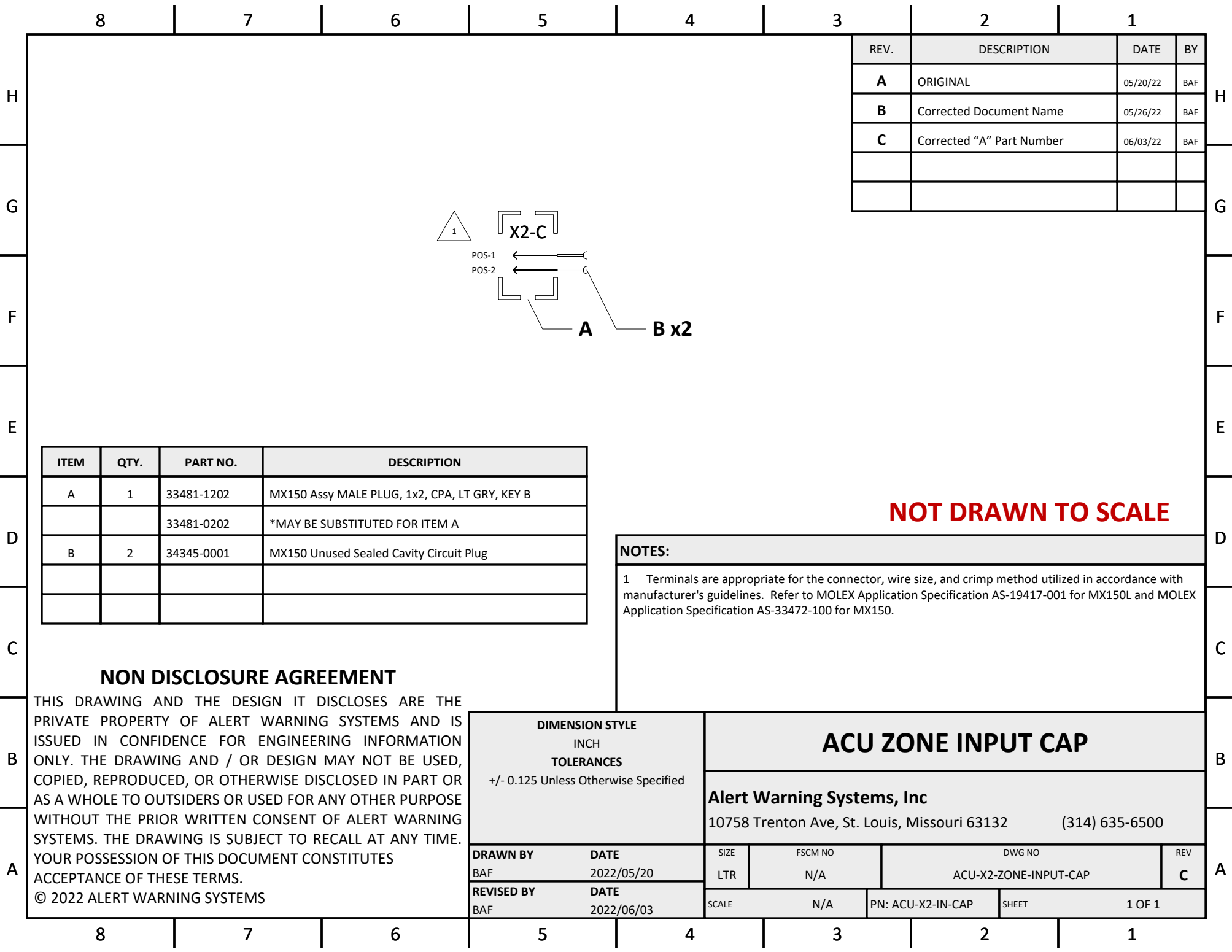
NOT DRAWN TO SCALE

NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 The free ends to be pre-cut 0.50 in. and partial stripped.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE INPUT LEADS			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO ACU-X2-ZONE-INPUT	REV c
REVISED BY BAF	DATE 2022/06/03	SCALE	N/A	PN: ACU-X2-IN	SHEET 1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected Document Name	05/26/22	BAF
C	Corrected "A" Part Number	06/03/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-1202	MX150 Assy MALE PLUG, 1x2, CPA, LT GRY, KEY B
		33481-0202	*MAY BE SUBSTITUTED FOR ITEM A
B	2	34345-0001	MX150 Unused Sealed Cavity Circuit Plug

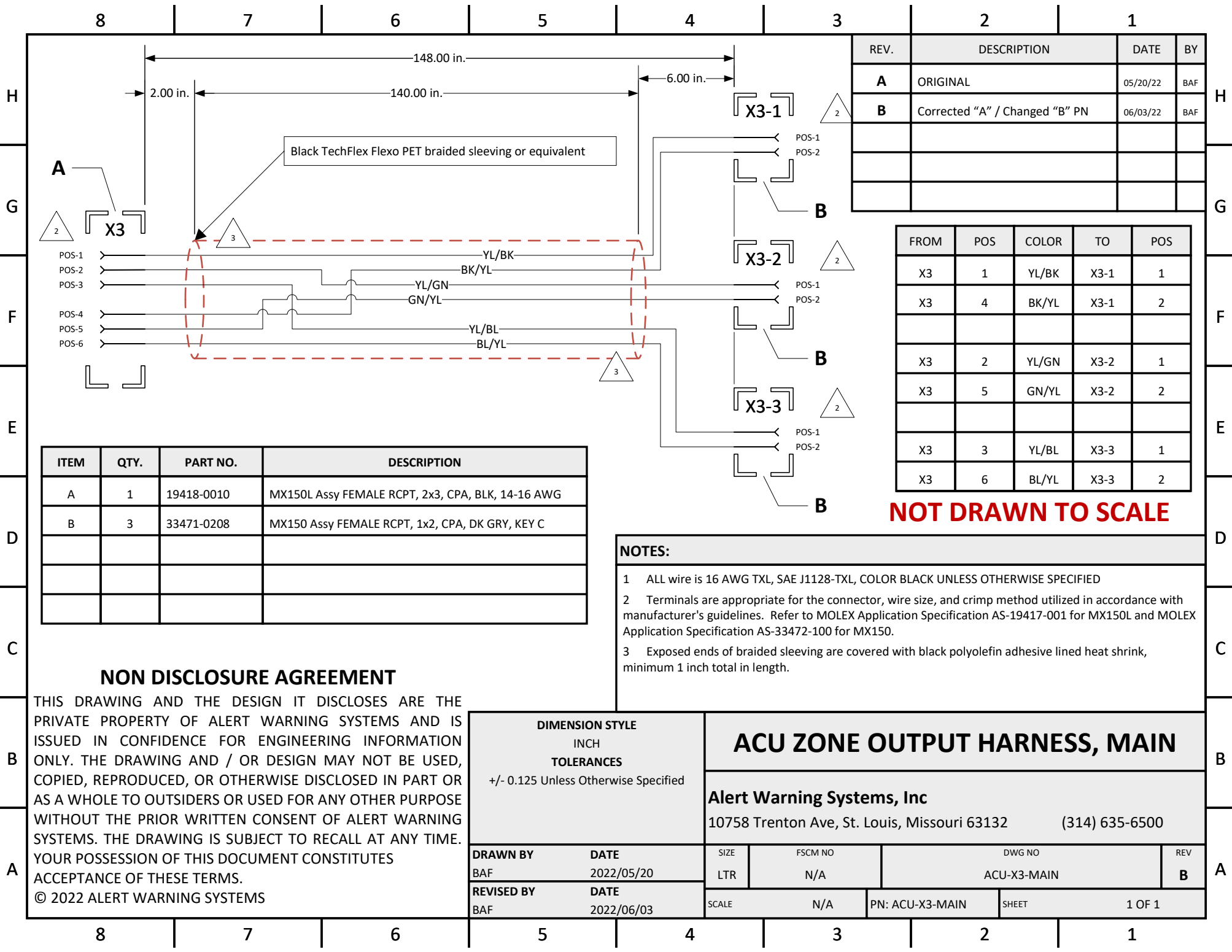
NOT DRAWN TO SCALE

NOTES:
1 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE INPUT CAP			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO ACU-X2-ZONE-INPUT-CAP	REV C
REVISED BY BAF	DATE 2022/06/03	SCALE	N/A	PN: ACU-X2-IN-CAP	SHEET 1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected "A" / Changed "B" PN	06/03/22	BAF

FROM	POS	COLOR	TO	POS
X3	1	YL/BK	X3-1	1
X3	4	BK/YL	X3-1	2
X3	2	YL/GN	X3-2	1
X3	5	GN/YL	X3-2	2
X3	3	YL/BL	X3-3	1
X3	6	BL/YL	X3-3	2

NOT DRAWN TO SCALE

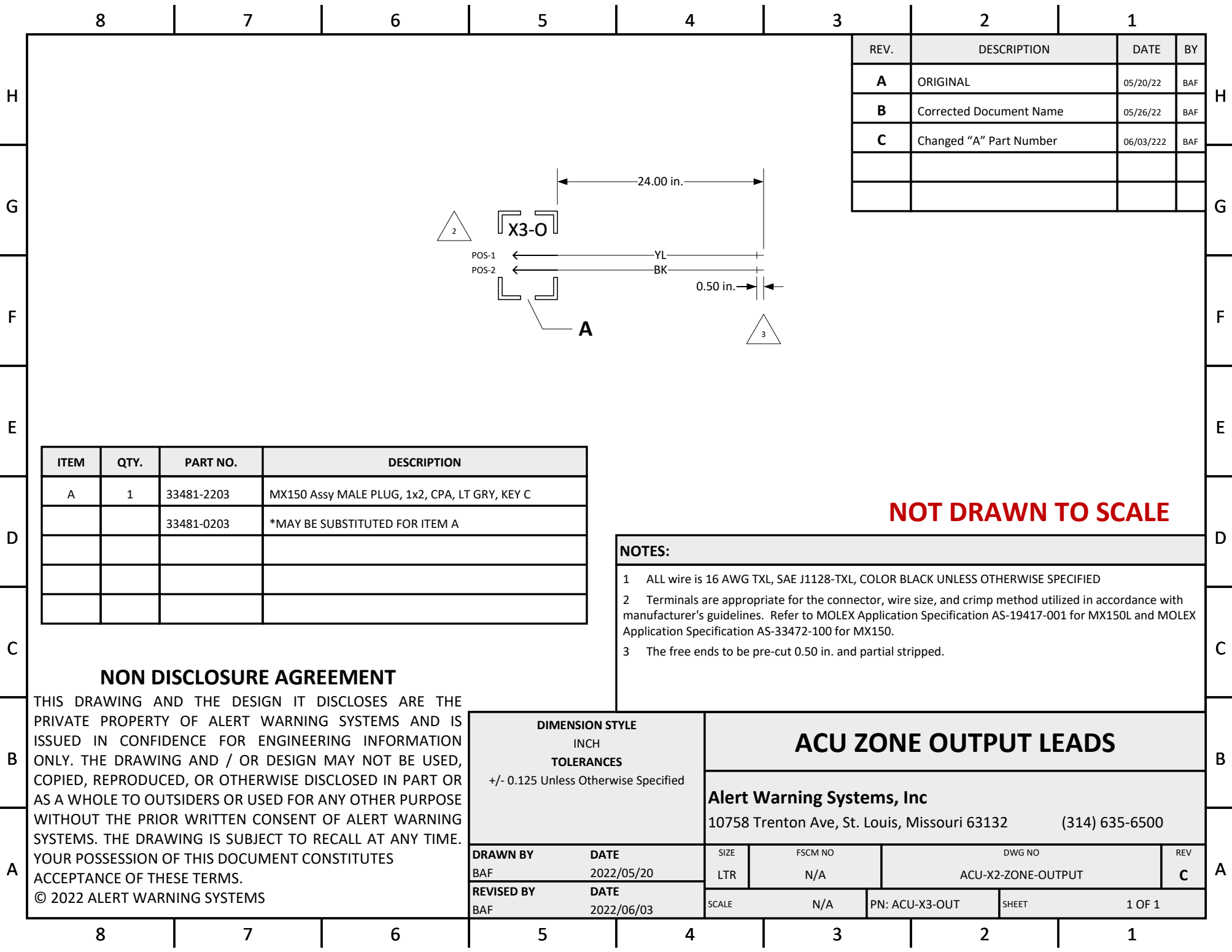
NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 Exposed ends of braided sleeving are covered with black polyolefin adhesive lined heat shrink, minimum 1 inch total in length.

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	19418-0010	MX150L Assy FEMALE RCPT, 2x3, CPA, BLK, 14-16 AWG
B	3	33471-0208	MX150 Assy FEMALE RCPT, 1x2, CPA, DK GRY, KEY C

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE OUTPUT HARNESS, MAIN			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO ACU-X3-MAIN	REV B
REVISED BY BAF	DATE 2022/06/03	SCALE	N/A	PN: ACU-X3-MAIN	SHEET 1 OF 1



REV.	DESCRIPTION	DATE	BY
A	ORIGINAL	05/20/22	BAF
B	Corrected Document Name	05/26/22	BAF
C	Changed "A" Part Number	06/03/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-2203	MX150 Assy MALE PLUG, 1x2, CPA, LT GRY, KEY C
		33481-0203	*MAY BE SUBSTITUTED FOR ITEM A

NOT DRAWN TO SCALE

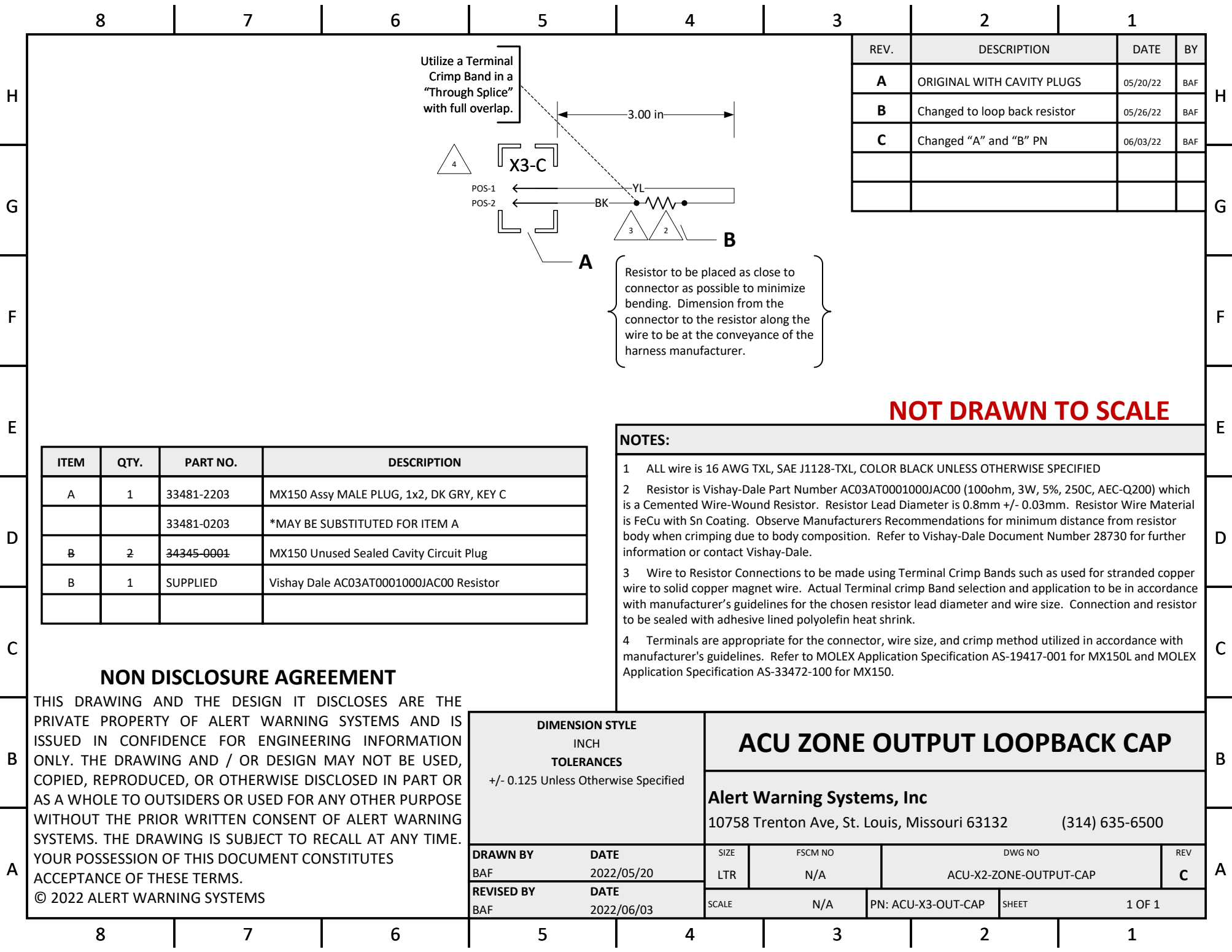
NOTES:
1 ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
2 Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.
3 The free ends to be pre-cut 0.50 in. and partial stripped.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE OUTPUT LEADS			
DRAWN BY BAF		Alert Warning Systems, Inc			
		10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DATE 2022/05/20		SIZE LTR	FSCM NO N/A	DWG NO ACU-X2-ZONE-OUTPUT	REV c
REVISED BY BAF		DATE 2022/06/03		SCALE N/A	PN: ACU-X3-OUT
				SHEET 1 OF 1	





REV.	DESCRIPTION	DATE	BY
A	ORIGINAL WITH CAVITY PLUGS	05/20/22	BAF
B	Changed to loop back resistor	05/26/22	BAF
C	Changed "A" and "B" PN	06/03/22	BAF

ITEM	QTY.	PART NO.	DESCRIPTION
A	1	33481-2203	MX150 Assy MALE PLUG, 1x2, DK GRY, KEY C
		33481-0203	*MAY BE SUBSTITUTED FOR ITEM A
B	2	34345-0001	MX150 Unused Sealed Cavity Circuit Plug
B	1	SUPPLIED	Vishay Dale AC03AT0001000JAC00 Resistor

NOTES:

- ALL wire is 16 AWG TXL, SAE J1128-TXL, COLOR BLACK UNLESS OTHERWISE SPECIFIED
- Resistor is Vishay-Dale Part Number AC03AT0001000JAC00 (100ohm, 3W, 5%, 250C, AEC-Q200) which is a Cemented Wire-Wound Resistor. Resistor Lead Diameter is 0.8mm +/- 0.03mm. Resistor Wire Material is FeCu with Sn Coating. Observe Manufacturers Recommendations for minimum distance from resistor body when crimping due to body composition. Refer to Vishay-Dale Document Number 28730 for further information or contact Vishay-Dale.
- Wire to Resistor Connections to be made using Terminal Crimp Bands such as used for stranded copper wire to solid copper magnet wire. Actual Terminal crimp Band selection and application to be in accordance with manufacturer's guidelines for the chosen resistor lead diameter and wire size. Connection and resistor to be sealed with adhesive lined polyolefin heat shrink.
- Terminals are appropriate for the connector, wire size, and crimp method utilized in accordance with manufacturer's guidelines. Refer to MOLEX Application Specification AS-19417-001 for MX150L and MOLEX Application Specification AS-33472-100 for MX150.

NON DISCLOSURE AGREEMENT

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PRIVATE PROPERTY OF ALERT WARNING SYSTEMS AND IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND / OR DESIGN MAY NOT BE USED, COPIED, REPRODUCED, OR OTHERWISE DISCLOSED IN PART OR AS A WHOLE TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF ALERT WARNING SYSTEMS. THE DRAWING IS SUBJECT TO RECALL AT ANY TIME. YOUR POSSESSION OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THESE TERMS.  
© 2022 ALERT WARNING SYSTEMS

DIMENSION STYLE INCH TOLERANCES +/- 0.125 Unless Otherwise Specified		ACU ZONE OUTPUT LOOPBACK CAP			
		Alert Warning Systems, Inc 10758 Trenton Ave, St. Louis, Missouri 63132 (314) 635-6500			
DRAWN BY BAF	DATE 2022/05/20	SIZE LTR	FSCM NO N/A	DWG NO ACU-X2-ZONE-OUTPUT-CAP	REV C
REVISED BY BAF	DATE 2022/06/03	SCALE	N/A	PN: ACU-X3-OUT-CAP	SHEET 1 OF 1