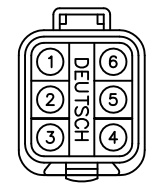


EXTERNAL POWER IN

CONNECTOR 00008295
 DEUTSCH DT04-6P
 WEDGE LOCK W6P
 TERMINAL 0003097
 DEUTSCH 1060-16-0122



WIRE INSERTION VIEW

RS-485 & FREQ INPUTS

- 4 - RS-485 HIGH
- 5 - RS-485 LOW
- 13 - FREQ INPUT
- 14 - FREQ OUTPUT

- IGN 1
- IGN 2
- IGN 3
- GND 1
- GND 2
- GND 3

- ① 41 - IGN 1
- ② 42 - IGN 2
- ③ 43 - IGN 3
- ④ 44 - GND 1
- ⑤ 45 - GND 2
- ⑥ 46 - GND 3

VIDEO 1

- 1 - VIDEO INPUT 1
- 9 - VIDEO INPUT 1 GND
- 41 - IGN 1
- 44 - GND 1

VIDEO 2

- 2 - VIDEO INPUT 2
- 10 - VIDEO INPUT 2 GND
- 42 - IGN 2
- 45 - GND 2

VIDEO 3

- 3 - VIDEO INPUT 3
- 11 - VIDEO INPUT 3 GND
- 43 - IGN 3
- 46 - GND 3

J2

- 12
- 4
- 5
- 13
- 14
- 6
- 7
- 8
- 15
- 21
- 22
- 23
- 1
- 9
- 2
- 10
- 3
- 11
- 18
- 16
- 17
- 19
- 20

- 4 - RS-485 HIGH
- 5 - RS-485 LOW
- 13 - FREQ INPUT
- 14 - FREQ RETURN

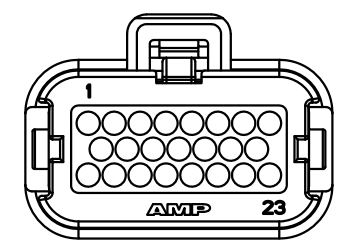
- RS-485 HIGH
- RS-485 LOW
- FREQ INPUT
- FREQ RETURN

- 1 - VIDEO INPUT 1
- 9 - VIDEO INPUT 1 GND
- 2 - VIDEO INPUT 2
- 10 - VIDEO INPUT 2 GND
- 3 - VIDEO INPUT 3
- 11 - VIDEO INPUT 3 GND
- 18
- 16
- 17
- 19
- 20

- VIDEO INPUT 1
- VIDEO INPUT 1 GND
- VIDEO INPUT 2
- VIDEO INPUT 2 GND
- VIDEO INPUT 3
- VIDEO INPUT 3 GND
- USB 5V
- USB D-
- USB D+
- USB GND
- USB SHIELD

CONNECTOR: GRAY
 AMP 770680-4
 FWM 87070015

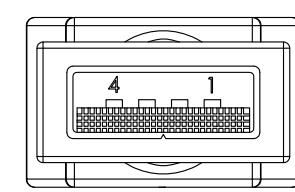
SOCKETS:
 AMP 770520-1
 FWM 87060023



WIRE INSERTION VIEW

NOTES:

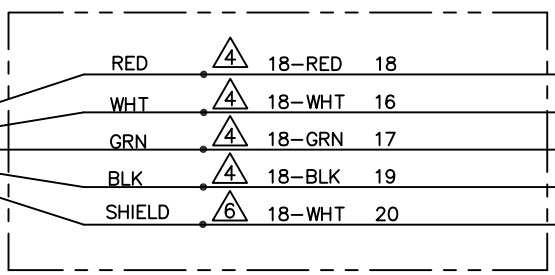
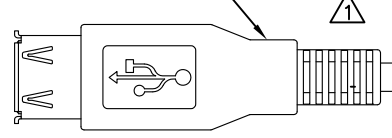
1. MEASURING FROM FEMALE END, CUT CABLE OFF AT 14".
2. USE SEALING PLUG [87070028] IN ALL UNUSED POSITION OF CONNECTOR [87070015].
3. ALL WIRES ARE 18GA, WHITE, GXL [00001649], UNLESS OTHERWISE NOTED.
4. COVER EACH SOLDER JOINT WITH 1.5" OF HEAT SHRINK [00007661].
5. TWIST WIRES AS A GROUP, MINIMUM ONE TWIST PER INCH.
6. COVER EACH SPLICE CLIP [00002885] WITH 1.5" OF HEAT SHRINK [00000824].
7. AFTER ALL TERMINALS HAVE BEEN INSERTED, INSERT WEDGE LOCK:
 CONNECTOR [00008295] - W6P [00008327].
8. COVER ALL WIRES WITH 4" OF HEAT SHRINK [00007661], OVER ALL SOLDER JOINTS AND SPLICE CLIPS.



USB FEMALE PINOUT

DESCRIPTION	COLOR	POSITION
VBUS (+5V)	RED	1
DATA (-)	WHT	2
DATA (+)	GRN	3
GND	BLK	4
SHIELD	SHIELD	OUTER

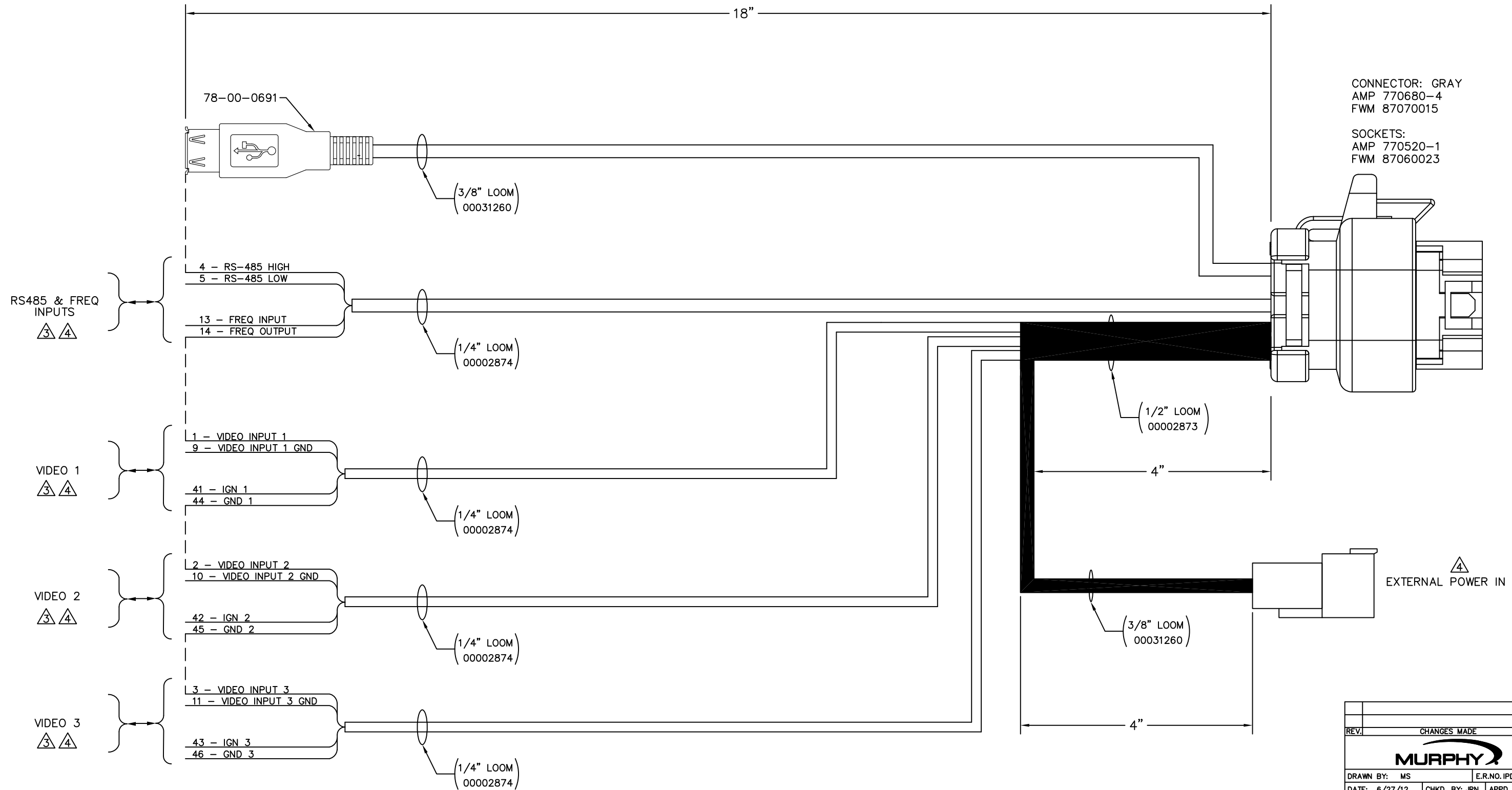
78-00-0691



CHANGES MADE			
REV.			
MURPHY			
DRAWN BY: MS	E.R.NO. IPD		
DATE: 6/27/12	CHKD. BY: JRN	APPD. BY: AU	
MODEL: PVW-780-GRY-PWR, VIDEO, USB, RS485-WIRE HARNESS			
DRAWING NO.	SIZE	REV.	
78-00-1018	D	A	

NOTES:

1. ALL HEAT SHRINK SIZES, LOOMS AND PART NUMBERS IN () ARE FOR REFERENCE ONLY. USE APPROPRIATE SIZE HEAT SHRINK AND LOOMS PER BOM.
2. FOR TOLERANCES.
 - A. LESS THAN 12" -> ± 1"
 - B. 12" TO 24" -> ± 2"
 - C. GREATER THAN 24" -> ± 3"
 - D. DO NOT STACK UP TOLERANCES.
3. BLUNT WIRES TO EXTEND 3" PAST LOOM.
4. LABEL BRANCHES AS SHOWN.



CONNECTOR: GRAY
AMP 770680-4
FWM 87070015

SOCKETS:
AMP 770520-1
FWM 87060023

CHANGES MADE			
MURPHY			
DRAWN BY: MS	E.R.NO. IPD		
DATE: 6/27/12	CHKD. BY: JRN	APPD. BY: AU	
MODEL: PVW-780-GRY-PWR,VIDEO, USB,RS485-WIRE HARNESS			
DRAWING NO. 78-00-1018	SIZE D	REV. A	

78-00-1018 REV. A

06/27/12									
----------	--	--	--	--	--	--	--	--	--

- NOTES:
1. MARK ALL WIRES WITH CODE CONTINUOUSLY APPROX. EVERY 2".
 2. REFER TO SHEET 1 FOR WIRING DIAGRAM.
 3. TWIST WIRES [4, 5] TOGETHER; TWIST WIRES [13,14] TOGETHER, MINIMUM ONE TWIST PER INCH.
 4. WIRES TO EXTEND 3" FROM LOOM.
 5. STRIP JACKET ON USB CABLE BACK 1.5", COVER EACH SOLDER JOINT WITH SEPARATE HEAT SHRINK [00007661]. USE [00002885] SPLICE ON BARE WIRE COVER WITH 1.5" OF HEAT SHRINK [00000824].

WIRE NO.	DESCRIPTION	MATERIAL	INCHES	TERM - A	FROM	TERM - B	TO	NOTES	CODE
1	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [1] 87070015	BLUNT	-	4	1 - VIDEO INPUT 1
2	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [2] 87070015	BLUNT	-	4	2 - VIDEO INPUT 2
3	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [3] 87070015	BLUNT	-	4	3 - VIDEO INPUT 3
4	18-WHT	00001649	21.00	87060023 TERM SKT	CONN [4] 87070015	BLUNT	-	3,4	4 - RS-485 HIGH
5	18-WHT	00001649	21.00	87060023 TERM SKT	CONN [5] 87070015	BLUNT	-	3,4	5 - RS-485 LOW
6	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [9] 87070015	BLUNT	-	4	9 - VIDEO INPUT 1 GND
7	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [10] 87070015	BLUNT	-	4	10 - VIDEO INPUT 2 GND
8	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [11] 87070015	BLUNT	-	4	11 - VIDEO INPUT 3 GND
9	18-WHT	00001649	21.00	87060023 TERM SKT	CONN [13] 87070015	BLUNT	-	3,4	13 - FREQ INPUT
10	18-WHT	00001649	21.00	87060023 TERM SKT	CONN [14] 87070015	BLUNT	-	3,4	14 - FREQ RTN
11	18-WHT	00001649	4.50	87060023 TERM SKT	CONN [16] 87070015	SOLDER	CONN [WHT] 78000691	5	16
12	18-GRN	00009229	4.50	87060023 TERM SKT	CONN [17] 87070015	SOLDER	CONN [GRN] 78000691	5	17
13	18-RED	00009232	4.50	87060023 TERM SKT	CONN [18] 87070015	SOLDER	CONN [RED] 78000691	5	18
14	18-BLK	00009233	4.50	87060023 TERM SKT	CONN [19] 87070015	SOLDER	CONN [BLK] 78000691	5	19
15	18-WHT	00001649	4.50	87060023 TERM SKT	CONN [20] 87070015	00002885 SPLICE	CONN [SHLD] 78000691	5	20
16	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [1] 00008295	BLUNT	-	4	41 - IGN 1
17	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [2] 00008295	BLUNT	-	4	42 - IGN 2
18	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [3] 00008295	BLUNT	-	4	43 - IGN 3
19	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [4] 00008295	BLUNT	-	4	44 - GND 1
20	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [5] 00008295	BLUNT	-	4	45 - GND 2
21	18-WHT	00001649	20.00	00003097 DEUTSCH PIN	CONN [6] 00008295	BLUNT	-	4	46 - GND 3