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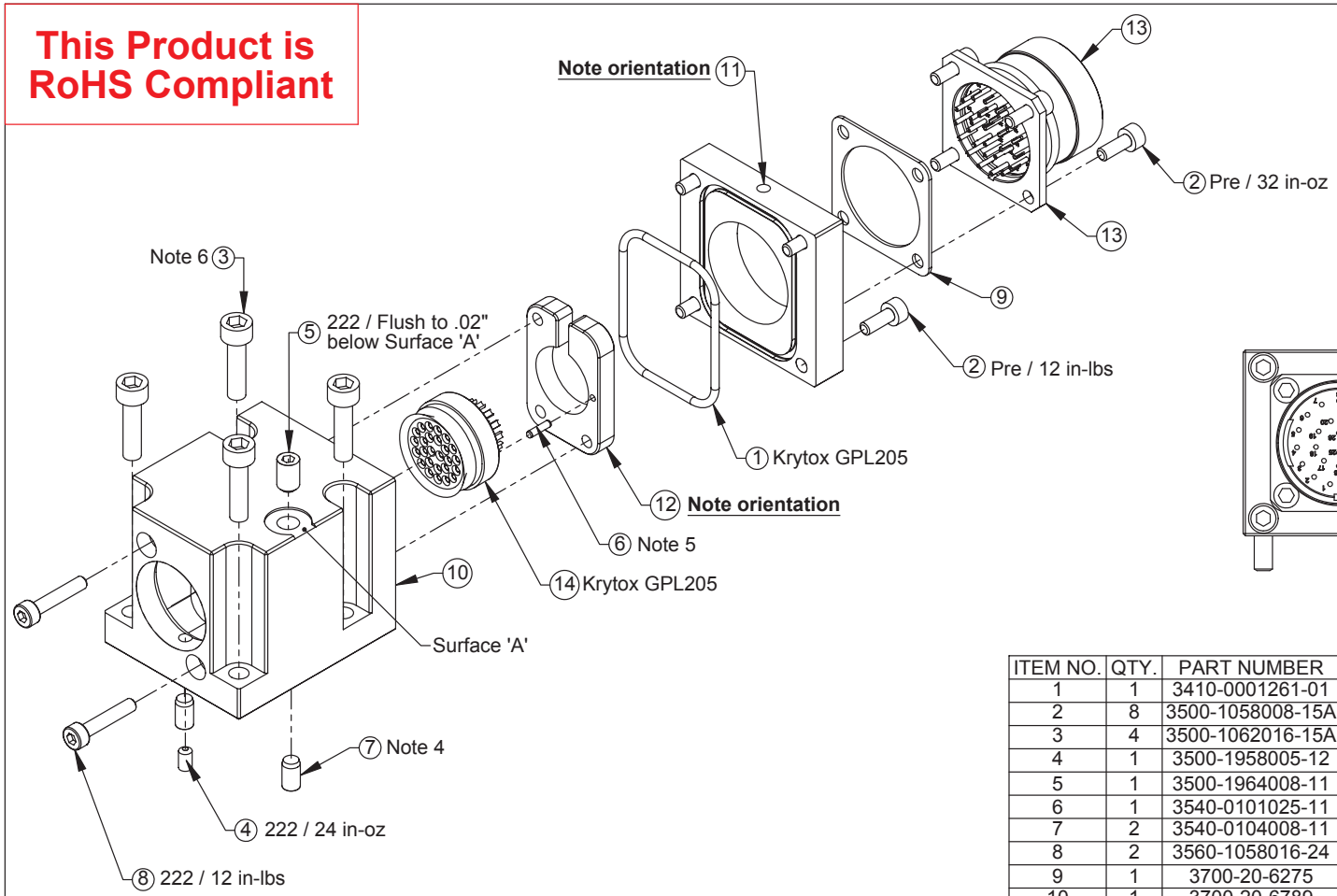
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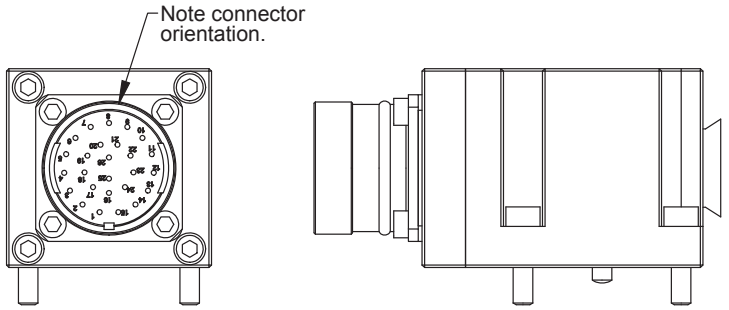
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This Product is RoHS Compliant



Rev.	Description	Initiator	Date
03P	Made changes to wire length recommended by Safe Launch report. Added images to Figures on Sheet 3.	WB	10/13/2011
04	Project release.	WB	10/21/2011
05	Eco 10926; Changed torque on setscrew from 48 to 24 in-oz. Restructured Notes on Page 1. Added Section A-A to Sheet 3. Modified Note 10 on Sheet 3.	CF	4/22/2013
06	Eco 11001; Changed Inspection Dimension from .096/.104 to .107/.096	CF	5/9/2013
07	Eco 11449; On Sheet 3, Note 8, changed the note to remove the V-Ring seal and install after parallelism test. Updated the assembly drawing so that the hole in the connector plate is visible. Updated Title Block.	RMH	10/3/2013
08	Eco 12613; Added "Finished Assembly is RoHS Compliant" Note. Added "This Product is RoHS Compliant" box to left hand of drawing. Removed tools from drawing. Updated Notes.	CF	9/24/2014



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3410-0001261-01	O-Ring , EPDM, AS568-026
2	8	3500-1058008-15A	M3 X 8 SHCS Blue Dyed Magni-565, ND Microspheres
3	4	3500-1062016-15A	M4 x 16mm SHCS Blue Dyed Magni-565 w/Microspheres
4	1	3500-1958005-12	M3-0.5 x 5, Set Screw Cup Point, Zinc Plated
5	1	3500-1964008-11	M5 X 8MM SET SCREW
6	1	3540-0101025-11	DOWEL PIN 1/16" x 1/4"
7	2	3540-0104008-11	4mm x 8mm Dowel Alloy Steel
8	2	3560-1058016-24	M3 x 16 SHCS Self Sealing, EPDM O-Ring
9	1	3700-20-6275	EPDM Gasket for 26P/S MS Connector
10	1	3700-20-6789	Master Housing, Kx Modules for QC-81
11	1	3700-20-6790	Master Connector Plate, KD
12	1	3700-20-6963	Kx Modules Pin Block Mounting Plate
13	1	9005-20-1687	Connector Sub Assembly, EPDM, 26 Pin Front Mount
14	1	9005-20-1785	26-Pin Block Sub Assembly, Master, EPDM V-Ring, K26 Modules

Notes:
1. Finished assembly must be RoHS Compliant.
2. Refer to Sheet 3 for assembly instructions.
3. Wiring table is on Sheet 2.
4. Use tool to install the indicated dowel pins.
5. Use assembly tool to install dowel 3540-0101025-11.
6. If mounting to QC, refer to Work Instruction. If module is to be placed in inventory, bag dry loose fasteners.

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN INCHES.

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DRAWN BY: W. Berrocal, 2/10/11

CHECKED BY: L. Jamshidi, 7/25/11

PROJECT # 110120-1 SHEET 1 OF 3

TITLE: 26 Pin Electrical Module, QC-81, Master, RoHS

SCALE	SIZE	DRAWING NUMBER	REVISION
1:1	B	9120-KE26-M	08

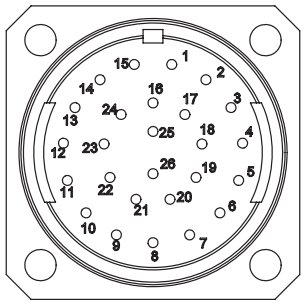
Rev.	Description	Initiator	Date
-	See Sheet1	-	-

TABLE 1: 26-PIN BLOCK WIRING

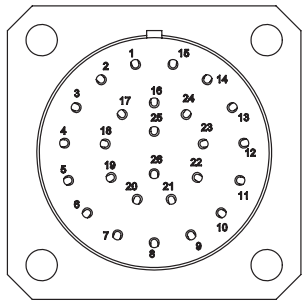
Twist the indicated wires (Note 2, Sheet 3)

9005-20-1687 26-Pin Connector		9005-20-1785 26-Pin Block Assembly	
1	3.5" Black 24 AWG	B	
2	3.5" Brown 24 AWG	C	
3	3.25" Black 24 AWG	F	Use cable 7515-2400301-08 when making these connections.
4	3.25" Brown 24 AWG	G	
5	3.25" Red 24 AWG	V	
6	3" Green 24 AWG	W	
7	3.25" Black 24 AWG	H	Use cable 7515-2400301-08 when making these connections.
8	3.25" Brown 24 AWG	J	
9	3.25" Red 24 AWG	X	
10	3" White 24 AWG	K	
11	3" Black/Brown 24 AWG	A	
12	3" Brown/White 24 AWG	R	
13	3.25" Black 24 AWG	Y	Use cable 7515-2400301-08 when making these connections.
14	3.25" Brown 24 AWG	L	
15	3.25" Red 24 AWG	M	
16	3" Black/Blue 24 AWG	T	
17	3" Blue/White 24 AWG	a	
18	3" Green/White 24 AWG	Z	
19	3" Black/Orange 24 AWG	c	
20	3" Black/Red 24 AWG	b	
21	3" Red/White 24 AWG	S	
22	3.25" Black 24 AWG	D	Use cable 7515-2400301-08 when making these connections.
23	3.25" Brown 24 AWG	E	
24	3.25" Red 24 AWG	U	
25	3" Black/Yellow 24 AWG	P	
26	3" White/Gray 24 AWG	N	

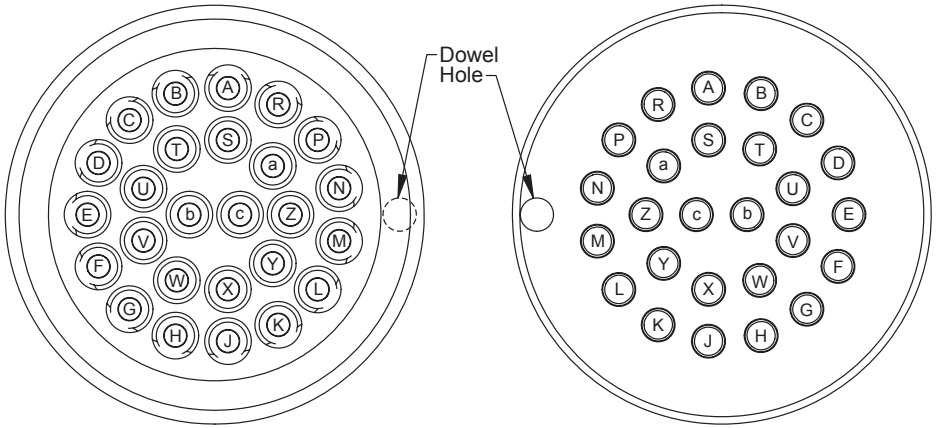
Signal Legend
MOTOR_PWR
MOTOR_RETURN
DVRT1_SENSE
DVRT1_POWER
DVRT1_COMMON
DVRT1_SHIELD
DVRT2_SENSE
DVRT2_POWER
DVRT2_COMMON
DVRT2_SHIELD
SERIAL_NUM_1_RES
SERIAL_NUM_2_RES
IRIS_RTD_1
IRIS_RTD_2
IRIS_RTD_3
MOTOR_SHIELD
CLOSED_LIMIT
OPEN_LIMIT
SWITCH_AND_ENC_COMMON
MID_LIM_SW
BRK_CTRL
END +5V
END_CH_A
ENC_CH_B
BRK_STATUS_SW
SPARE



9005-20-1687
26-Pin Connector
Face Side
Scale 2:1



9005-20-1687
26-Pin Connector
Solder Side
Scale 2:1



9005-20-1785
26-Pin Master Pin Block
Face Side
Scale 4:1

9005-20-1785
26-Pin Master Pin Block
Solder Side
Scale 4:1

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DRAWN BY: W. Berrocal, 2/10/11

CHECKED BY: L. Jamshidi, 7/25/11

PROJECT # 110120-1 SHEET 2 OF 3

TITLE: 26 Pin Electrical Module, QC-81, Master, RoHS

SCALE	SIZE	DRAWING NUMBER	REVISION
2:1	B	9120-KE26-M	08

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

Assembly and Wiring Notes:
Read through the following assembly notes carefully before beginning assembly of the module. Assemble the module in the sequence listed below:

1. Solder wires of the length, color, and gauge indicated in Table 1 to the 26-Pin Connector (9005-20-1687). **Use only 24 AWG PVC insulated wire and RoHS compliant solder**. Use cable 7515-2400301-08 when making the connections indicated in Gray in Table 1. Apply heat shrink to all of the connections.
2. After soldering and applying heat shrink, twist the wire pairs indicated in Table 1. Twist the wires in accordance with Linked Work Instruction.
3. Install O-ring 3410-0001261-01 into the Master Connector Plate (3700-20-6790).
4. Fasten the 26-Pin connector to the Master Connector Plate (3700-20-6789). Ensure that the connector is properly oriented and that the gasket is in place.
5. Solder the wires from the 26-Pin Connector to the 26-Pin Block (9005-20-1785) as indicated in Table 1 (reference Figure 1). Maintain the twists as close to the pin block as possible. Heat shrink the connections at the Pin Block.
6. Press dowel pin 3540-0101025-11 dowel pin into the Pin Block Mounting Plate (3700-20-6963) using the tool indicated on Sheet 1.
7. Place the 26-Pin Block over the Pin Block Mounting Plate (3700-20-6963). Use the dowel pin to properly orient the Pin Block. **It is critical that the Pin Block is oriented as shown on Sheet 1.**
8. Remove V-Ring Seal from Pin Block Assembly. Insert the Pin Block and Pin Block Mounting Plate into the Master Housing (3700-20-6789, reference Figure 2). **It is critical that the Pin Block Mounting Plate is oriented as shown on Sheet 1.**
9. Using the two M3 x 16 SHCS, fasten the Pin Block Mounting Plate (3700-20-6963) to the Master Housing.
10. Fasten the Pin Block to the Master Housing using the included M3 set screw. After fastening the Pin Block to the Housing, measure the installation height of the Pin Block in accordance with the linked Quality Instruction. The Inspection Dimension is shown in Section A-A.
11. After Pin Block height has been tested and verified (Reference Linked Quality Form), place a light coating of Krytox GPL205 on the outside of the Pin Block V-Ring Seal and insert into Pin Block.

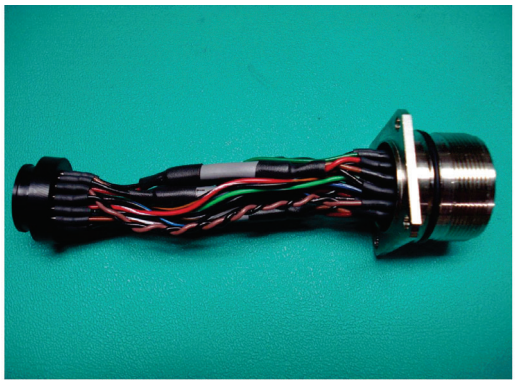


Figure 1: Solder wires to the 26-Pin Block

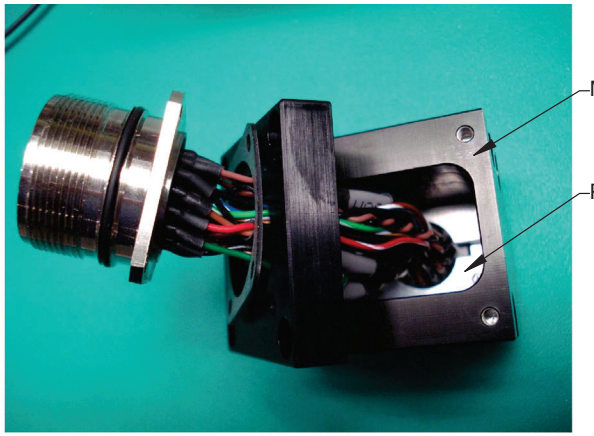
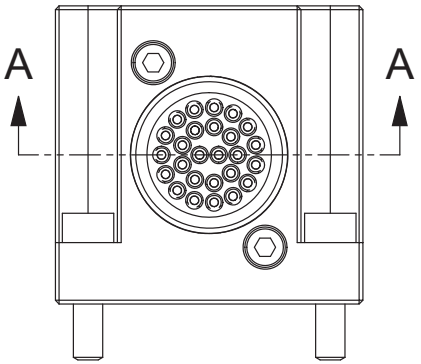
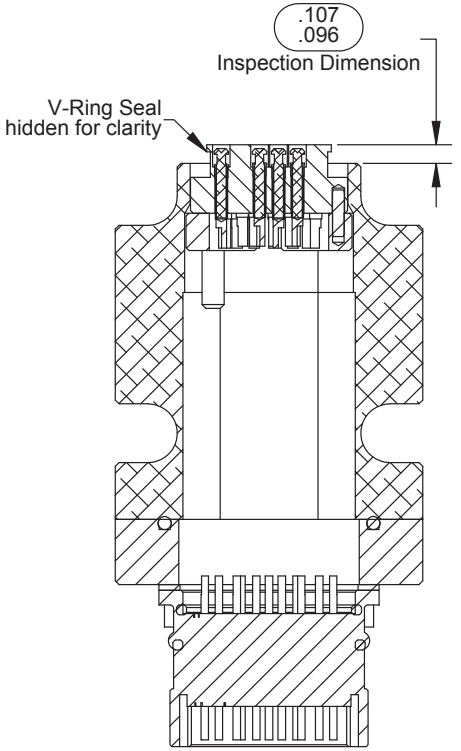


Figure 2: Insert Pin Block and Pin Block Mounting Plate in Master Housing





SECTION A-A
SCALE 1.5 : 1

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CHECKED BY: L. Jamshidi, 7/25/11
PROJECT # 110120-1 SHEET 3 OF 3

TITLE: 26 Pin Electrical Module, QC-81, Master, RoHS

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