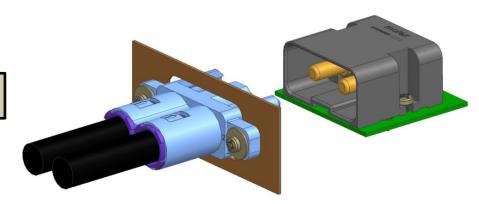
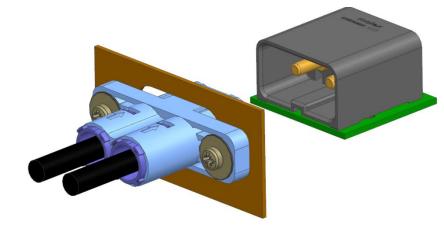
APPLICATION SPECIFICATION FOR POWERWIZE BMI 3.4mm AND 6mm P-TO-B PRODUCT FAMILY

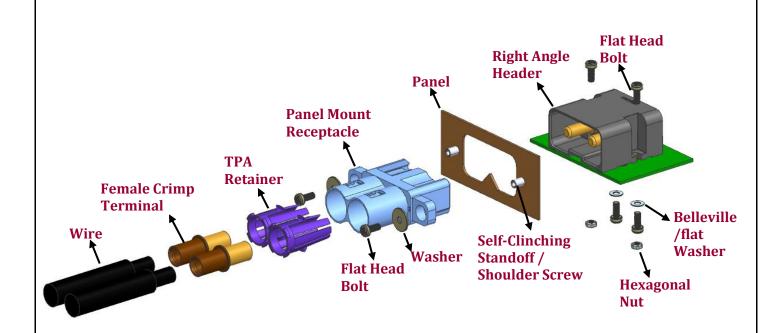
POWERWIZE BMI 6mm P-to-B CONNECTOR



POWERWIZE BMI 3.4mm P-to-B CONNECTOR



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Λ	EC No:	3.	4mm AND 6mm		1 of 28	
A	DATE:	POWERW	POWERWIZE BMI CONNECTORS			
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:	
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REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATI	ON SPECIFICATION	ON FOR	SHEET No.
Λ	EC No:	3.	4mm AND 6mm		2 of 28
A	DATE:	POWERWIZE BMI CONNECTORS			2 01 20
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
AS-215510-1000		СНЕТАВ			

Contents

1.0 SCOPE	4
2.0 PRODUCT DESCRIPTION	4
2.1 PRODUCT DESCRIPTION AND SERIES NUMBERS	4
2.2 DIMENSION, MATERIAL AND PLATING	5
3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS	5
4.0 HEADER INSTALLATION TO PCB	6
4.1 GENERAL PCB DETAILS	6
4.2 SCREW MOUNT HEADER INSTALLATION TO PCB	7
4.2.1 6mm SCREW MOUNT HEADER INSTALLATION TO PCB	8
4.2.2 3.4mm SCREW MOUNT HEADER INSTALLATION TO PCB	10
4.3 SOLDER TAIL HEADER INSTALLATION TO PCB	13
4.3.1 6mm SOLDER MOUNT HEADER INSTALLATION TO PCB	13
4.3.2 3.4MM SOLDER MOUNT HEADER INSTALLATION TO PCB	14
5.0 POWERWIZE CRIMPED CABLE ASSEMBLY	15
6.0 RECEPTACLE ASSEMBLY	17
6.1 TPA INSTALLATION	17
6.1.1 TPA INSTALLATION POST CRIMPING	17
6.1.2 TPA INSTALLATION PRIOR TO CRIMPING	18
6.2 MOUNTING FEMALE CRIMP TERMINAL ASSEMBLY TO RECEPTACLE HOUSII	NG18
6.3 RECEPTACLE ASSEMBLY INSTALLATION TO PANEL	20
7.0 POWERWIZE MATING REQUIREMENTS	26
8.0 FINAL ASSEMBLY DIMENSIONS	28

REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATI	ON SPECIFICATION	ON FOR	SHEET No.
Α	EC No:	3.	4mm AND 6mm		3 of 28
_ ^	DATE:	POWERW	IZE BMI CONNEC	TORS	3 01 20
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1.0 SCOPE

This specification applies to the 3.4mm and 6mm PowerWize BMI, High-Current Panel-to-Board/busbar connector system for function, assembly, and use of this product.

2.0 PRODUCT DESCRIPTION

The PowerWize BMI, High-Current Panel-to-Board/Busbar connector system is a 2-ckt high power connector for busbar and PCB applications. These Connector systems are available in crimp contacts for cable applications with 2.0mm of float on Receptacle side to facilitate BMI (Blind Mate Interface) applications. The connectors are available with pegs. The Right-Angle Header termination is available in two variants.

They are :- Solder tail version (for termination to PCB)

Screw Mount (for termination to PCB and Busbar)

2.1 PRODUCT DESCRIPTION AND SERIES NUMBERS

SL.No	Description	Series Number
1	PowerWize Right Angle Screw/Solder Mount Header	215510
2	PowerWize Receptacle Housing	215511
3	Female Crimp Terminal Assembly	204608
4	TPA for Panel Mount Receptacle	215513
5	Mounting Panel	N/A
6	Self-clinching standoff / Shoulder screw	N/A
7	Flat head Screw	N/A
8	Flat / Belleville Washers	N/A
9	Hexagonal Nut	N/A

REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATI	ON SPECIFICATION	ON FOR	SHEET No.	
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2.2 DIMENSION, MATERIAL AND PLATING

- 1. Dimensions: Refer to sales drawing.
- 2. Material: RoHS compliant materials:
 - I. LCP for Header and
 - PBT for Receptacle Housing and TPA.
 - II. Copper Alloy for Male pins and Crimp Socket assembly.
- 3. Plating: Male Pins: Silver over Nickel underplate overall

Receptacle Terminal: Gold at the contact points and silver on the

rest of terminal.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Refer to the appropriate sales for information on dimensions, materials, plating, and markings.

Product Specifications:

2155100006-PS – POWERWIZE BMI 6mm Product Specification. 2155100003-PS – POWERWIZE BMI 3.4mm Product Specification.

Sales Drawings:

2155106031 – POWERWIZE BMI 6mm Right Angle Screw Mount Header 2155106241 – POWERWIZE BMI 6mm Right Angle Solder Mount Header 2155116121 – POWERWIZE BMI 6mm Panel Mount Receptacle Assembly 2155136001 – POWERWIZE BMI 6mm TPA Retainer

2155103031 – POWERWIZE BMI 3.4mm Right Angle Screw Mount Header 2155103241 – POWERWIZE BMI 3.4mm Right Angle Solder Mount Header 2155113121 – POWERWIZE BMI 3.4mm Panel Mount Receptacle Assembly 2155133001 – POWERWIZE BMI 3.4mm TPA Retainer

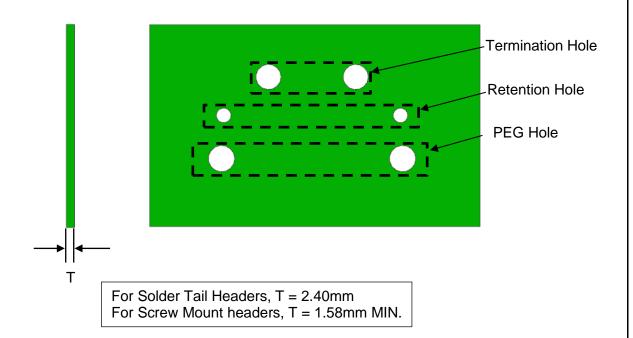
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^	DATE:	POWERW	IZE BMI CONNEC	TORS	3 01 20
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4.0 HEADER INSTALLATION TO PCB

PowerWize BMI Headers are available with insert molded male terminal circuits.

4.1 GENERAL PCB DETAILS

PCB and its feature details are provided below and it's common for all screw mount and solder mount Header Variants.



10-layer PCB with 2 oz per layer for 3.4 & 6mm Connectors

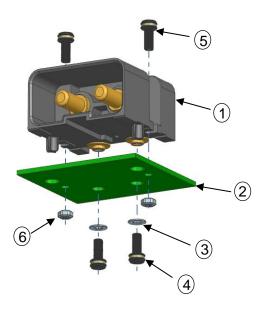
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A	DATE:	POWERW	POWERWIZE BMI CONNECTORS			
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:	
AS-215510-1000		СНЕТАВ				

We have 2 types of Terminations available for PowerWize BMI Headers.

- 1. Screw Mount (Used for both PCB and Busbars)
- 2. Solder Mount (Used for PCB only)

4.2 SCREW MOUNT HEADER INSTALLATION TO PCB

6mm Screw Mount header Assembly components



General Numbering,

Component 1 – 6mm Screw Mount Header

Component 2 – PCB

Component 3 – Washer (Flat washer or Belleville washer)

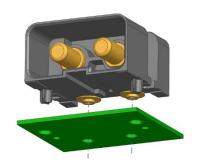
Component 4 – M3 x 0.5mm Flat Head Bolt

Component 5 – M3 x 0.5mm Flat Head Bolt

Component 6 – M3 Hexagonal nut

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Α	EC No:	3.	4mm AND 6mm		7 of 28
^	DATE:	POWERWIZE BMI CONNECTORS		7 01 20	
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4.2.1 6mm SCREW MOUNT HEADER INSTALLATION TO PCB



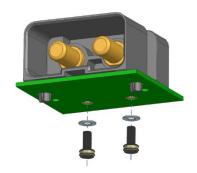
Step 1:

Align the Screw Mount terminals with the Termination holes of the PCB.

Step 2:

With the Termination holes aligned and pegs inserted into the PCB peg holes, Place the Header onto the PCB with the Header pad surface flushing with the PCB top surface





Step 3:

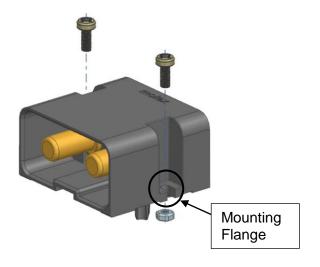
For Termination, use M3 conductive bolt and washer(Flat washer or Belleville washer) and mount the Header with PCB with required torque of min 4lbf

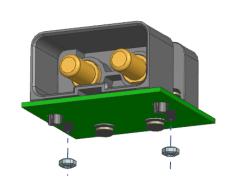
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Step 4:

Insert the M3 bolt into the PCB from the Header as shown and fasten with a M3 hexagonal nut from the bottom on both sides of the Header.

This will add higher board retention for the Header with PCB

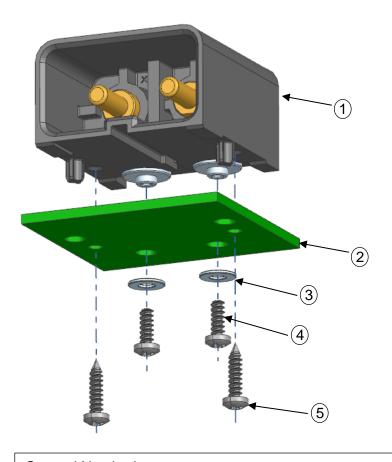




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DATE:		POWERWIZE BMI CONNECTORS		3 01 20	
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4.2.2 3.4mm SCREW MOUNT HEADER INSTALLATION TO PCB

3.4mm Screw Mount Header Assembly components



General Numbering,

Component 1 – 3.4mm Screw Mount Header

Component 2 – PCB

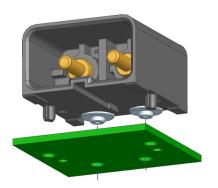
Component 3 – Washer (Flat washer or Belleville washer)

Component 4 – M2 x 0.4mm Flat Head bolt

Component 5 – M2 x 0.4mm Flat Head Screw

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A	DATE:	POWERWIZE BMI CONNECTORS			
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
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3.4mm Screw Mount Header Installation to PCB

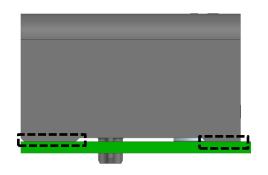


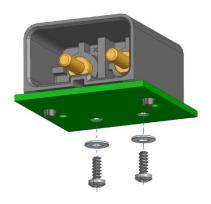
Step 1:

Align the Screw Mount terminals with the Termination holes of the PCB.

Step 2:

With the Termination holes aligned and pegs inserted into the PCB peg holes, Place the Header onto the PCB with the Header pad surface flushing with the PCB top surface



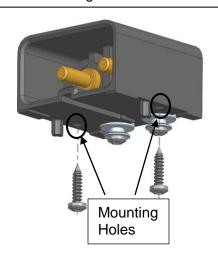


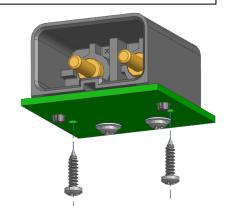
Step 3:

For Termination, use M3 conductive bolt and washer (Flat washer or Belleville washer) and mount the Header with PCB with required torque of min 4lbf

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Step 4: Install the self-tapping screw on both sides of the Header. This will add Higher Retention for the Header with PCB

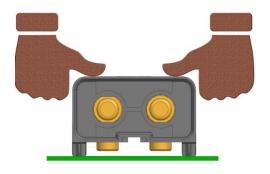




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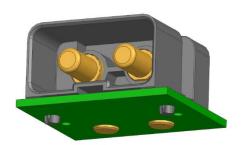
4.3 SOLDER TAIL HEADER INSTALLATION TO PCB

4.3.1 6mm SOLDER MOUNT HEADER INSTALLATION TO PCB



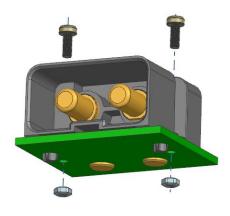
Step 1:

Place and press the header by hand to push into the PCB assuring flush surfaceto-surface contact between the bottom of the header and the top of the PCB, as shown in the image



Step 2:

Solder Mount headers are soldered with Reflow soldering process as per the specifications mentioned in PS.

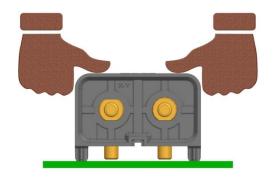


Step 3:

For Higher Rigidity, Header is mounted with M3 x 0.5 bolt and hexagonal nut on both sides as shown.

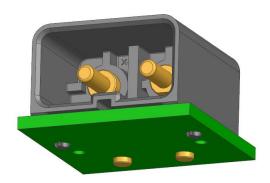
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4.3.2 <u>3.4MM SOLDER MOUNT HEADER INSTALLATION TO PCB</u>



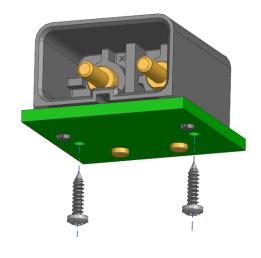
Step 1:

Place and press the header by hand to push into the PCB assuring flush surfaceto-surface contact between the bottom of the header and the top of the PCB, as shown in the image



Step 2:

Solder Mount Headers are soldered with Reflow soldering process as per the specifications mentioned in PS.



Step 3:

For Higher Rigidity, Header is mounted with M2 x 0.4mm screw and hexagonal nut on both sides as shown.

REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION SPECIFICATION FOR			SHEET No.
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Α	DATE:	POWERW	IZE BMI CONNEC	TORS	14 01 20
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5.0 POWERWIZE CRIMPED CABLE ASSEMBLY

5.1 Crimp contacts are available to accept a wide range of wire gauges (10 AWG to 2 AWG) Cable requirements:

2/4/6/8/10 AWG cable for 6mm Receptacle Assembly 8/10 AWG cable for 3.4mm Receptacle Assembly

- 5.2 Cut cable to desired length
- 5.3 Strip cable per below schematic
 - a. Recommended cable processing machine is a Schleuniger Eco Strip 9600
 - b. The cable stripping aid (tool 62203-0623) is used to pull the insulation slug off the cable
 - 14.50mm to 16.00mm Strip Length



- 5.4 Fully insert terminal onto stripped wire (wire ties may be used on exposed strands to prevent loose strands
 - a. When handling the terminals, wear protective gloves to prevent crosscontamination of oils. Avoid handling terminals in the contact area and use the crimp barrel if needed
- 5.5 Verify there are no loose ends of wire protruding from terminal
- 5.6 Place terminal with cable into the crimping tool
 - a. Recommend MOLEX crimp tool 192890800
 - b. Portable crimping tool 638161000 and crimp head 638161100 also needed

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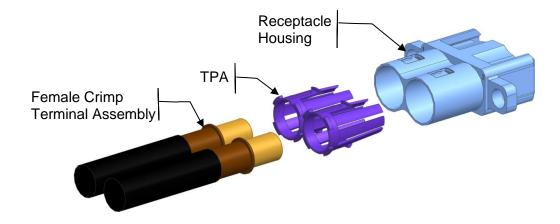


5.7 Crimp the terminal in the press. See document TM-192862000 for tool operating instructions 5.8 Inspect the terminal crimp dimensions specified in documents ATS-192900080 (1/0 crimps)

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Λ	EC No:	3.4mm AND 6mm		16 of 28	
A	DATE:	POWERW	IZE BMI CONNEC	TORS	10 01 20
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
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6.0 RECEPTACLE ASSEMBLY

Components involved in the Receptacle Assembly are as shown below



6.1 TPA INSTALLATION

TPA installation to the Female Crimp Terminal Assembly

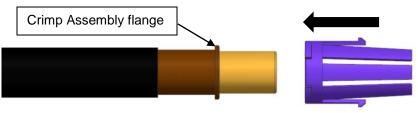
There are 2 different methods to install TPA to the Female Crimp Terminal Assembly.

Method 1: TPA installation post crimping Method 2: TPA installation prior to crimping

6.1.1 TPA INSTALLATION POST CRIMPING

Method 1 includes the following procedure:

1. Fix Crimp Terminal Assembly and move the TPA in the direction shown until TPA beams flex around the crimp assembly flange and settle as shown below.



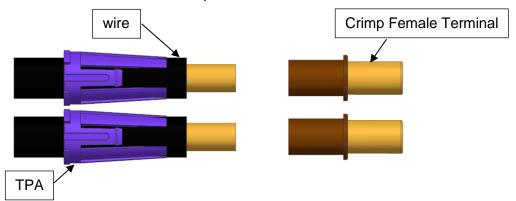
2. Move the TPA towards Female Crimp Terminal Assembly flange until the top surface of TPA beam touches to the rear surface of crimp assembly flange as shown below.



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6.1.2 <u>TPA INSTALLATION PRIOR TO CRIMPING</u> Method 2 includes the following procedure:

1. Install the TPA on to the uncrimped wire as shown

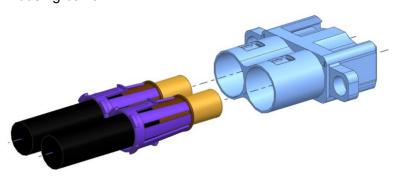


2. Now, Crimp the wire with the Crimp Female Terminals and move the TPA towards the flange.



6.2 MOUNTING FEMALE CRIMP TERMINAL ASSEMBLY TO RECEPTACLE HOUSING

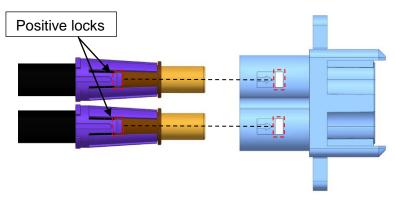
1. Align the sub-assembly of crimp Terminal and TPA with the Receptacle Housing barrel



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2. Before installing the Female Crimp Terminal Assembly to Receptacle Housing, make sure that TPA locking ramp is in alignment with the locking cutout available on the housing as shown below.



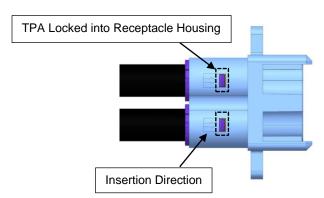
3. It is strictly advised to keep the TPA attached to flange while assembling to the Receptacle Housing to avoid any insertion issues.

Two (opposed) positive locks hold the TPA retainer securely to the blindmate receptacle housing silo.

Six beams(for 6mm TPA) and four beams(for 3.4mm TPA) robustly hold the crimp contact inside the TPA retainer, preventing the contact from backing out of the receptacle



4. Insert the Crimp Terminal Assembly into the Receptacle Housing until the TPA gets locked into the Housing and makes the "click sound". This audible click assures that crimp contacts are fully engaged and prevent terminal backout.



REVISION:	ECR/ECN INFORMATION:	APPLICATION SPECIFICATION FOR			SHEET NO.			
Α	EC No:	3.4mm AND 6mm		19 of 28				
_ ^	DATE:	POWERW	POWERWIZE BMI CONNECTORS					
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6.3 RECEPTACLE ASSEMBLY INSTALLATION TO PANEL

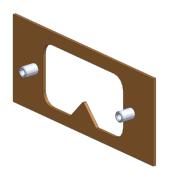
There are 2 methods for installing Receptacle Assembly to panel.

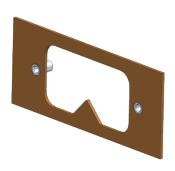
Method 1: Installaion with self clinching standoffs

Method 2: Installation with shoulder screws

Both the methods involve the same procedure except that method 1 involves the panel with pre-assembled standoff whereas method 2 involves usage of shoulder screw while assembling the Receptacle Assembly to panel.

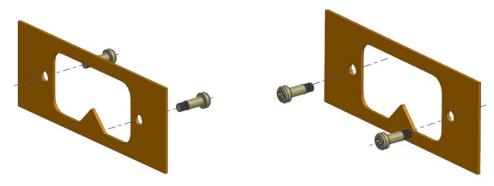
Reference images for approach 1(With self-clinching standoff): Self-clinching standoffs are pre-assembled to the panel. So, assembler needs one side Access While mounting the Receptacle Assembly to the panel.





Reference images for approach 2(With Shoulder Screw):

Shoulder screws are used at the point of assembling the Receptacle Assembly to the Panel. So, assembler needs access on both sides of the panel to install the Receptacle Assembly.

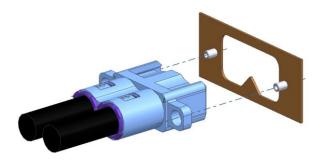


REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION SPECIFICATION FOR		SHEET No.	
A <u>EC No:</u>		3.4mm AND 6mm			20 of 28
A	DATE:	POWERW	IZE BMI CONNEC	TORS	20 01 20
DOCUMENT	ΓNUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
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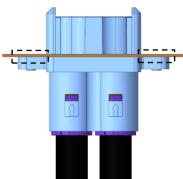
 Recommended panel cut out should be used to assemble with Receptacle Assembly as shown below with specific dimensions like hole diameter, cut-out width, height, and all specified dimensions as per sales drawing. 2155116121 and 2155113121.



2. For installing Receptacle Assembly to panel, make axis to axis alignment of mounting holes between the housing and panel as shown in the below

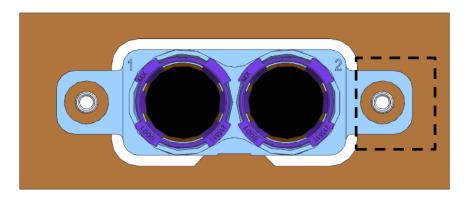


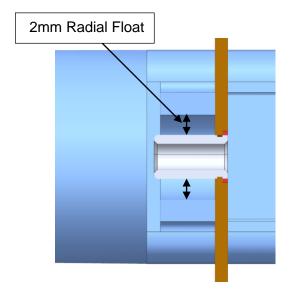
3. Fix the panel and move the Receptacle Assembly until the Receptacle flange and panel surface flush.

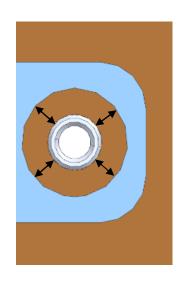


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Α	EC No:	3.4mm AND 6mm		21 of 28		
	DATE:	POWERW	IZE BMI CONNEC	TORS	210120	
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4. Panel will have radial float of 2.00 mm radially on both sides when the housing is inserted in to the panel as shown in below. Such that panel move in all axis for perfect alignment.



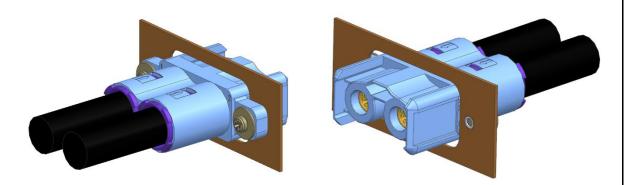




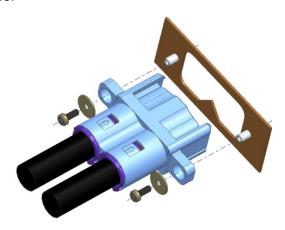
2mm Radial Float

REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION SPECIFICATION FOR			SHEET No.
Λ.	EC No:	3.	4mm AND 6mm		22 of 28
A	DATE:	POWERW	IZE BMI CONNEC	TORS	22 01 20
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
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- 5. Now, with the appropriate washer and bolt, mount the Receptacle Assembly to the panel.
- 6. For, the fasterners installation the hardware components need to be purchased by the customer as per recommendations specified in the sales drawing 2155116121 and 2155113121.

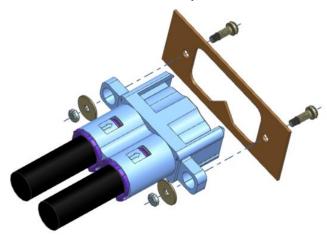


7. In approach 1, self-clinching stand off is pre-assembled to the panel and Receptacle Assembly is installed to the panel with the recommended bolt and washer on both the sides.



REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION SPECIFICATION FOR		SHEET No.	
Α	EC No:	3.4mm AND 6mm		23 of 28	
^	DATE:	POWERWIZE BMI CONNECTORS 1		23 01 20	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
AS-215510-1000		СНЕТАВ			
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8. In approach 2, shoulder screw needs to be inserted on the back side of panel and mount with the appropriate screw and washer from the back of Receptacle assembly on both the sides of the Assembly.



9. After installing the Receptacle Assembly to the panel make sure that we are getting radial float without any obstructions.

For 6mm Receptacle Assembly

ITEM NO.	DESCRIPTION	QTY	REMARKS
1	Receptacle Panel	1	
2	M3 self-clinch close to edge standoff or M3 shoulder screw and M3 hexagonal nut (Standoff and screw length, L=7mm)	2	
3	Receptacle Housing	1	
4	M3 flat washer OD=9mm - 9.3mm, T= 0.5mm - 1mm	2	
5	M3 x 0.5 bolt L= 4mm - 8mm	2	
6	TPA	2	Refer SD: 2155136001
7	Crimped Sockets	2	Wire size : 2AWG,4AWG, 6AWG,8AWG & 10AWG Refer 2046080000-SD

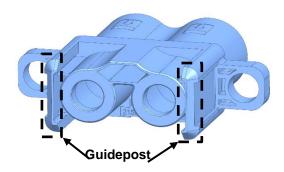
REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION SPECIFICATION FOR		SHEET No.	
A EC No:		3.4mm AND 6mm			24 of 28
A	DATE:	POWERWIZE BMI CONNECTORS		24 01 20	
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For 3.4mm Receptacle Assembly

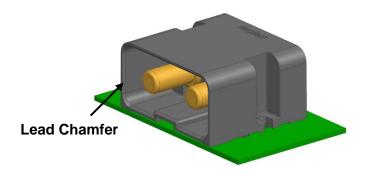
ITEM NO.	DESCRIPTION	QTY	REMARKS
1	Receptacle Panel	1	
2	M3 Self-clinch close to edge Standoff or M3 Shoulder Screw and M3 Hexagonal Nut (Standoff and screw length, L=7mm)	2	
3	Receptacle Housing	1	
4	M3 Flat Washer OD=9mm - 10mm, T= 0.5mm - 1mm	2	
5	M3 X 0.5 Screw L= 4mm - 8mm	2	
6	TPA	2	Refer SD: 2155133001
7	Crimped Sockets	2	Wire Size : 8AWG & 10AWG Refer SD-2046083011

REVISION:	ECR/ECN INFORMATION: EC No:	APPLICATION SPECIFICATION FOR 3.4mm AND 6mm		SHEET NO.	
A	DATE:	POWERW	TORS	25 of 28	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
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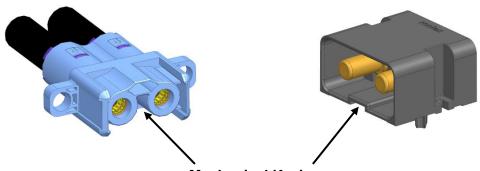
7.0 POWERWIZE MATING REQUIREMENTS



Receptacle Housing has in-built guideposts which engages with the inner wall of the header shrouds to align the connectors during Receptacle Assembly and the Header mating. These guideposts also help in providing 2mm gatherability while mating.



Right Angle Header is provided with entry chamfer to engage with the Receptacle guideposts on all the directions while mating.

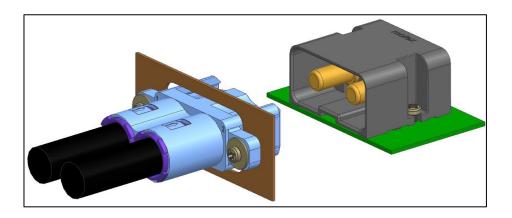


Mechanical Keying

Unique geometry at the front of the panel mount receptacle and matching geometry on the header shroud prevents mis-mating between the receptacle and header

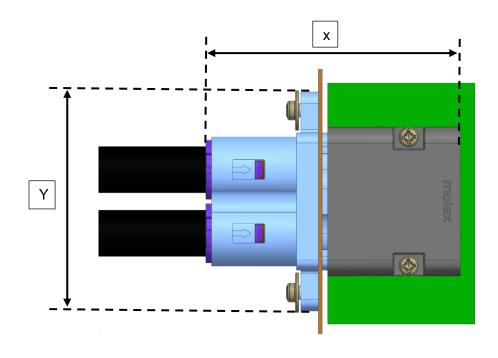
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Α	EC No:	3.4mm AND 6mm			26 of 28	
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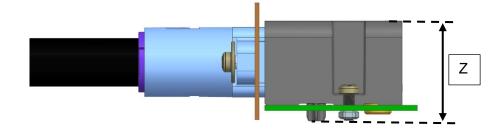
RIGHT-ANGLE HEADER AND PANEL MOUNT RECEPTACLE MATING ASSEMBLY



REVISION:	ECR/ECN INFORMATION:	APPLICATION SPECIFICATION FOR		SHEET No.	
Λ	EC No:	3.4mm AND 6mm		27 of 28	
A	DATE:	POWERW	IZE BMI CONNEC	TORS	27 01 20
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
AS-215510-1000		СНЕТАВ			
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8.0 FINAL ASSEMBLY DIMENSIONS





OVERALL DIMESIONS OF POWERWIZE VARIANTS

6mm, X = 75.95mm Y = 63.45mm Y = 51.80mm

Z = 26.70 mm Z = 20.45 mm

REVISION:	ECR/ECN INFORMATION:	TITLE: APPLICATION	ON SPECIFICATION	ON FOR	SHEET No.
Α	EC No:	3.	4mm AND 6mm		28 of 28
A	DATE:	POWERW	IZE BMI CONNEC	TORS	20 01 20
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPRO\	/ED BY:
AS-215510-1000		CHETAB			