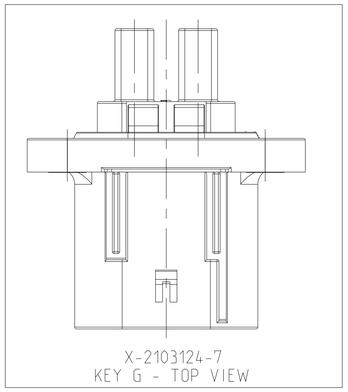
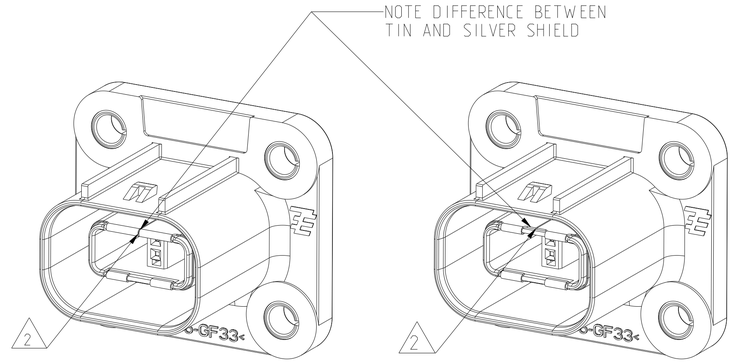
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REVISIONS					
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	B2	SEE ECO-14-008515	06JUN2014	YS	TD
	B3	SEE ECN-22-154645	26MAY2022	JJH	P.R
	B4	SEE ECN-22-190630	16DEC2022	JJH	P.R
	B5	SEE ECN-23-202220	09MAR2023	JJH	P.R

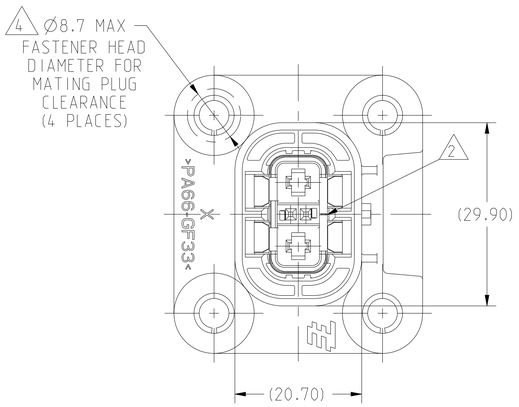


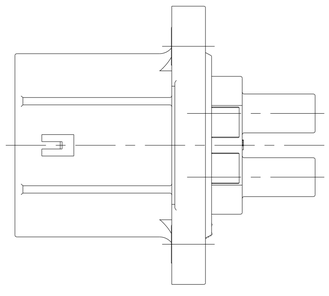
X-2103124-7
KEY G - TOP VIEW

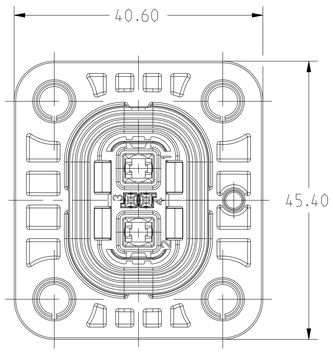


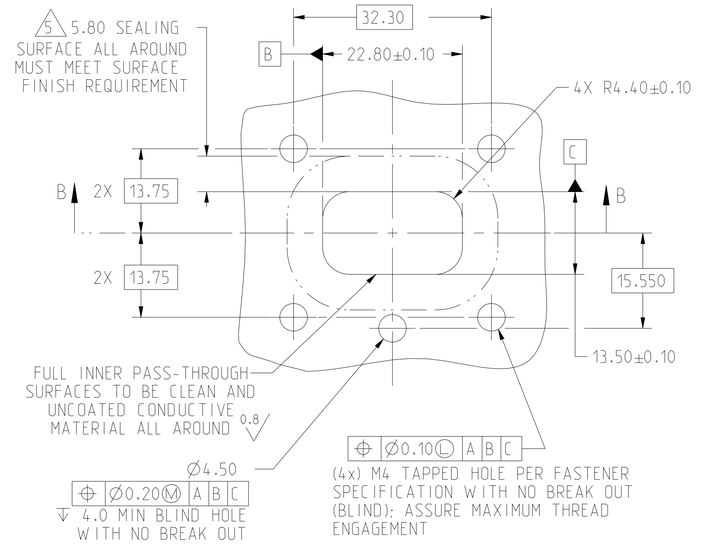
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(TIN SHIELD)

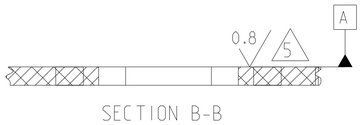
1-2103124-X
(SILVER SHIELD) 10











SECTION B-B

MOUNTING INTERFACE SPECIFICATION
3.0 MINIMUM MOUNTING THICKNESS
(KEY A MOUNTING INTERFACE SHOWN -
REFER TO TABLE FOR KEY B - F MOUNTING DIFFERENCES)
SCALE 2:1

1 IDENTIFICATION MARKING ON THIS SURFACE CONTAINS ASSEMBLY P/N AND DATE CODE (YY/DD). TEXT ORIENTATION, SIZE, AND LOCATION CAN VARY AS LONG AS TEXT IS ON SURFACE SHOWN AND READABLE.

2 SHIELD SEAM CAN BE POSITIONED AS SHOWN OR ROTATED 180° FROM POSITION SHOWN.

3 NOTE DELETED

4 THESE DIMENSIONS DEFINE FASTENER SIZE LIMITS FOR PROPER COMPONENT FUNCTIONALITY. END USER MUST ENSURE FASTENER AND/OR WASHER DIAMETER IS 8.6mm MIN. FOR PROPER RETENTION. THESE ARE NOT PRODUCT FEATURES - NO INSPECTION REQUIRED FOR THESE ITEMS.

5 SURFACE FINISH APPLIES TO AREAS SHOWN IN MOUNTING INTERFACE SPECIFICATION

6 USE WITH 2.8mm BLADE TERMINAL P/N:
2-2141598-2 FOR 1.0 - 2.5mm² WIRE
2-2141600-2 FOR >2.5 - 4.0mm² WIRE

7 USE WITH MQS RECEPTACLE P/N:
963715-6, 963715-5, 928999-6 OR 928999-5,
DEPENDING ON WIRE SIZE AND MATING PLUG USED

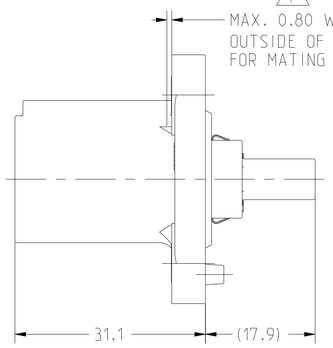
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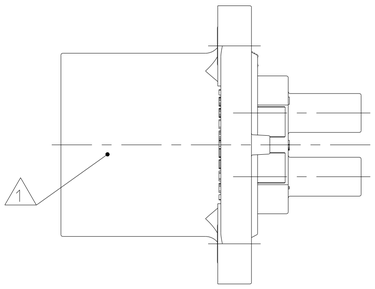
9 NOTE DELETED

10 SEE SHEETS 3 AND 4 FOR 2-2103124-X

11 POKA-YOKE FEATURE FOR INTERNAL CAMERA INSPECTION WHILE ASSEMBLY

4
MAX. 0.80 WASHER/FASTENER HEIGHT
OUTSIDE OF MAX. 8.7mm FASTENER DIAMETER
FOR MATING PLUG CLEARANCE (4 PLACES)





2103124-1 SHOWN IN ALL VIEWS UNLESS NOTED
REFER TO SHEET 2 FOR ADDITIONAL PART NUMBER VIEWS
(REFER TO SHEET 3 AND 4 FOR 2-2103124-X)

勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
http://www.100y.com.tw

10				
PBT-GF30 (HEADER HOUSING)	SILVER	D	2-2103124-4
	SILVER	A	2-2103124-1
PA66-GF33 (HEADER HOUSING)	SILVER	G	1-2103124-7
	SILVER	F	1-2103124-6
	SILVER	E	1-2103124-5
	SILVER	D	1-2103124-4
	SILVER	B	1-2103124-2
	SILVER	A	1-2103124-1
	TIN	G	2103124-7
	TIN	F	2103124-6
	TIN	E	2103124-5
	TIN	D	2103124-4
	TIN	B	2103124-2
	TIN	A	2103124-1
MATERIAL	*SHIELD FINISH*	*INDEX*	*ASSY PART NO.*

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.50
1 PLC ±0.50
2 PLC ±0.15
3 PLC ±0.05
4 PLC ±
ANGLES ±3°

MATERIAL: SEE TABLE Siehe Tabelle
FINISH: SEE TABLE Siehe Tabelle

DWN T. DEWITTE 30SEP2010
CHK T. DEWITTE 30SEP2010
APVD T. DEWITTE 15APR2011
PRODUCT SPEC -
APPLICATION SPEC 408-10441
WEIGHT 22.7 g

TE Connectivity

NAME HVA280 2P HEADER ASSY W/HVIL - PLASTIC 1 PIECE CHART DRAWING

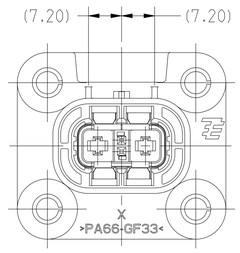
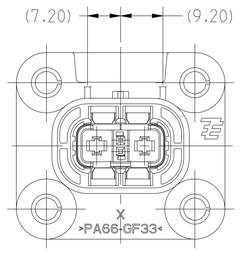
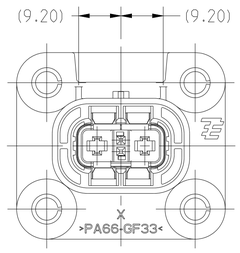
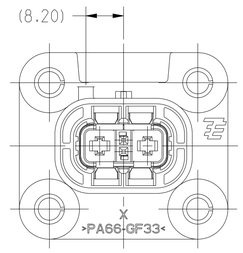
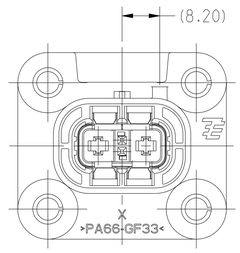
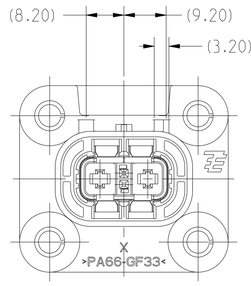
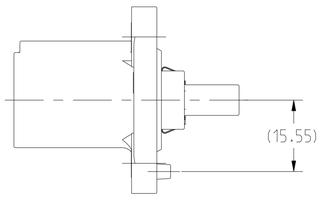
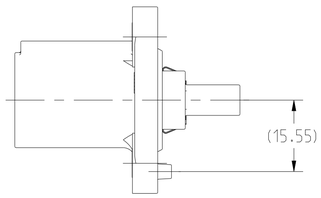
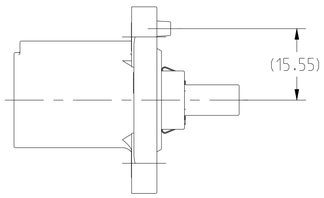
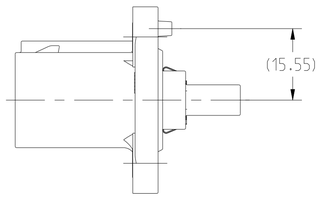
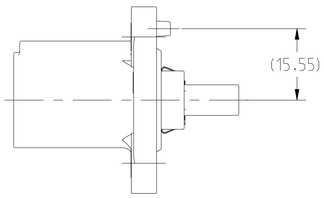
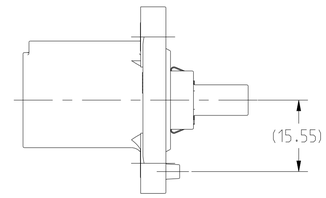
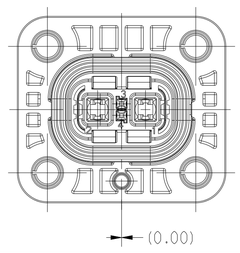
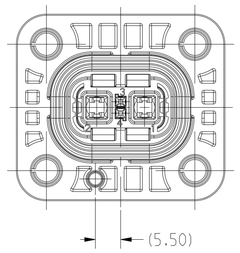
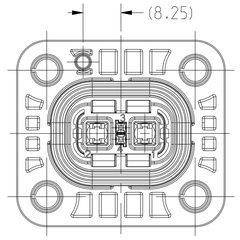
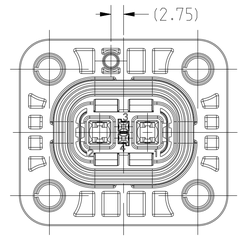
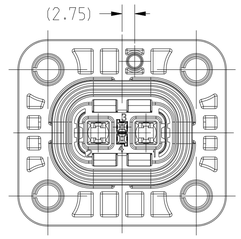
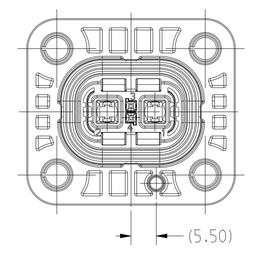
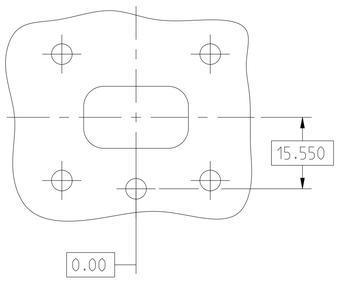
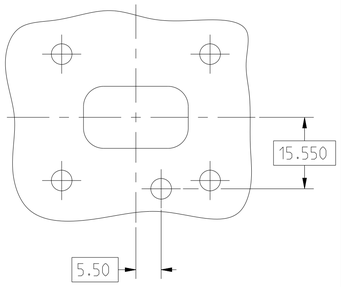
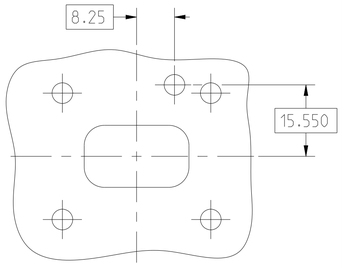
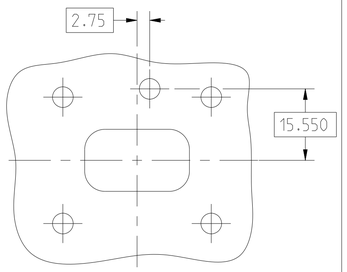
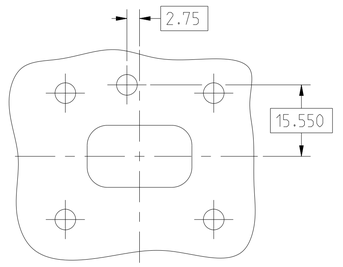
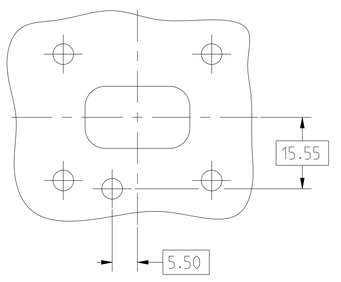
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CUSTOMER DRAWING | SCALE 2:1 | SHEET 1 OF 4 | REV B5

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

	10 X-2103124-1 (KEY A)	X-2103124-2 (KEY B)	10 X-2103124-4 (KEY D)	X-2103124-5 (KEY E)	X-2103124-6 (KEY F)	X-2103124-7 (KEY G)
FRONT VIEW						
SIDE VIEW						
REAR VIEW						
INTERFACE VIEW - MOUNTING SIDE	 KEY A MOUNTING INTERFACE	 KEY B MOUNTING INTERFACE	 KEY D MOUNTING INTERFACE	 KEY E MOUNTING INTERFACE	 KEY F MOUNTING INTERFACE	 KEY G MOUNTING INTERFACE

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.50
1 PLC ±0.50
2 PLC ±0.15
3 PLC ±0.05
4 PLC ±-
ANGLES ±3°

MATERIAL: SEE TABLE Siehe Tabelle
FINISH: SEE TABLE Siehe Tabelle

DWN T. DEWITTE 30SEP2010
CHK T. DEWITTE 30SEP2010
APVD T. DEWITTE 15APR2011
PRODUCT SPEC -
APPLICATION SPEC 408-10441
WEIGHT 22.7 g

TE Connectivity

NAME HVA280 2P HEADER ASSY W/HVIL - PLASTIC 1 PIECE CHART DRAWING

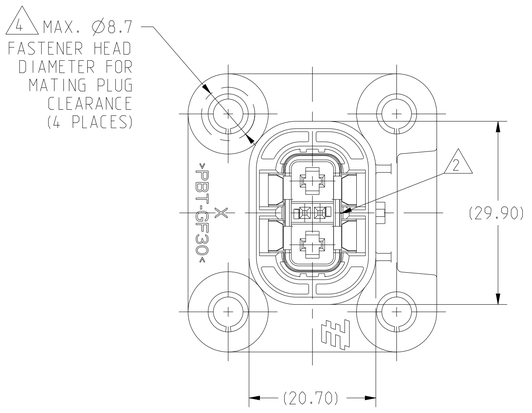
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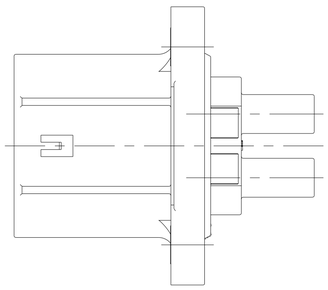
CUSTOMER DRAWING | SCALE 2:1 | SHEET 2 OF 4 | REV B5

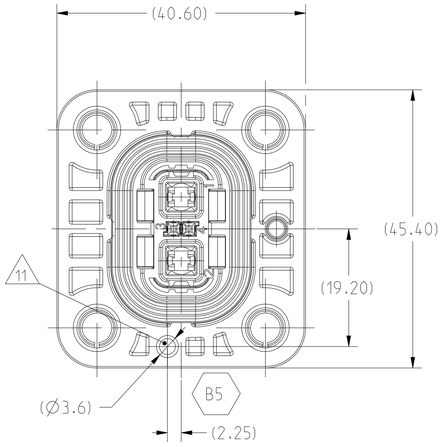
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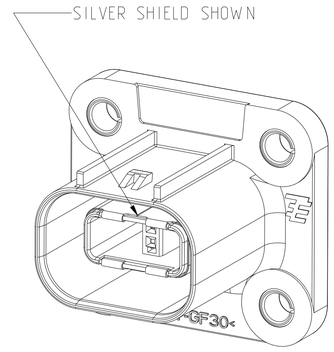
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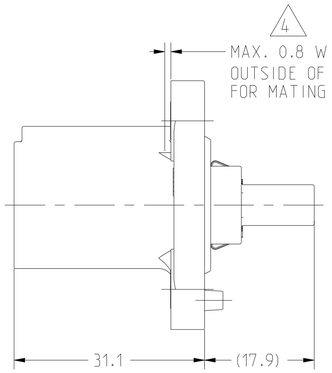
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	-	SEE SHEET 1	-	-	-

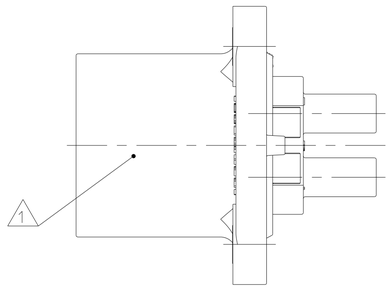












2-2103124-1 SHOWN IN ALL VIEWS UNLESS NOTED
REFER TO SHEET 4 FOR ADDITIONAL PART NUMBER VIEWS

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.50
1 PLC ±0.50
2 PLC ±0.15
3 PLC ±0.05
4 PLC +-
ANGLES ±3°

MATERIAL: SEE TABLE Siehe Tabelle
FINISH: SEE TABLE Siehe Tabelle

DWN T. DEWITTE 30SEP2010
CHK T. DEWITTE 30SEP2010
APVD T. DEWITTE 15APR2011
PRODUCT SPEC -
APPLICATION SPEC 408-10441
WEIGHT 22.7 g
CUSTOMER DRAWING

TE Connectivity

NAME HVA280 2P HEADER ASSY W/HVIL - PLASTIC 1 PIECE CHART DRAWING

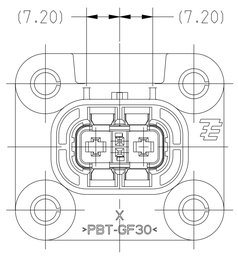
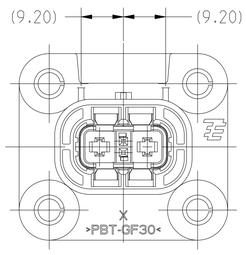
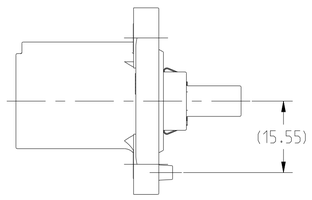
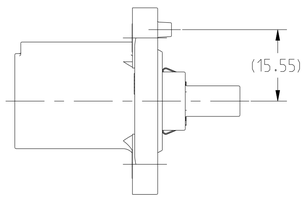
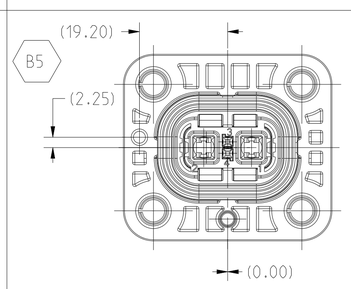
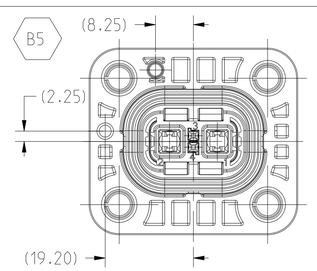
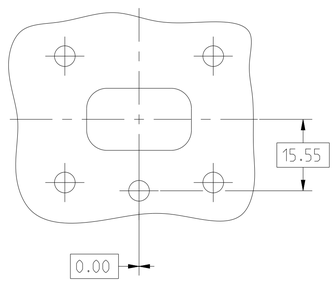
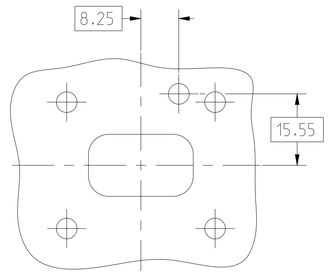
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2103124	

SCALE 2:1 SHEET 3 OF 4 REV B5

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REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

	2-2103124-1 (KEY A)	2-2103124-4 (KEY D)
FRONT VIEW		
SIDE VIEW		
REAR VIEW		
INTERFACE VIEW - MOUNTING SIDE		
	KEY A MOUNTING INTERFACE	KEY D MOUNTING INTERFACE

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.50
1 PLC ±0.50
2 PLC ±0.15
3 PLC ±0.05
4 PLC ±-
ANGLES ±3°

MATERIAL: SEE TABLE Siehe Tabelle
FINISH: SEE TABLE Siehe Tabelle

DWN T. DEWITTE 30SEP2010
CHK T. DEWITTE 30SEP2010
APVD T. DEWITTE 15APR2011
PRODUCT SPEC -
APPLICATION SPEC 408-10441
WEIGHT 22.7 g

TE Connectivity

NAME HVA280 2P HEADER ASSY W/HVIL - PLASTIC 1 PIECE CHART DRAWING

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2103124	

CUSTOMER DRAWING | SCALE 2:1 | SHEET 4 OF 4 | REV B5

2-Position Sealed AMP+* Header High Voltage Accessory (HVA) 280 2phx with High Voltage Interlock (HVIL) (Shielded)

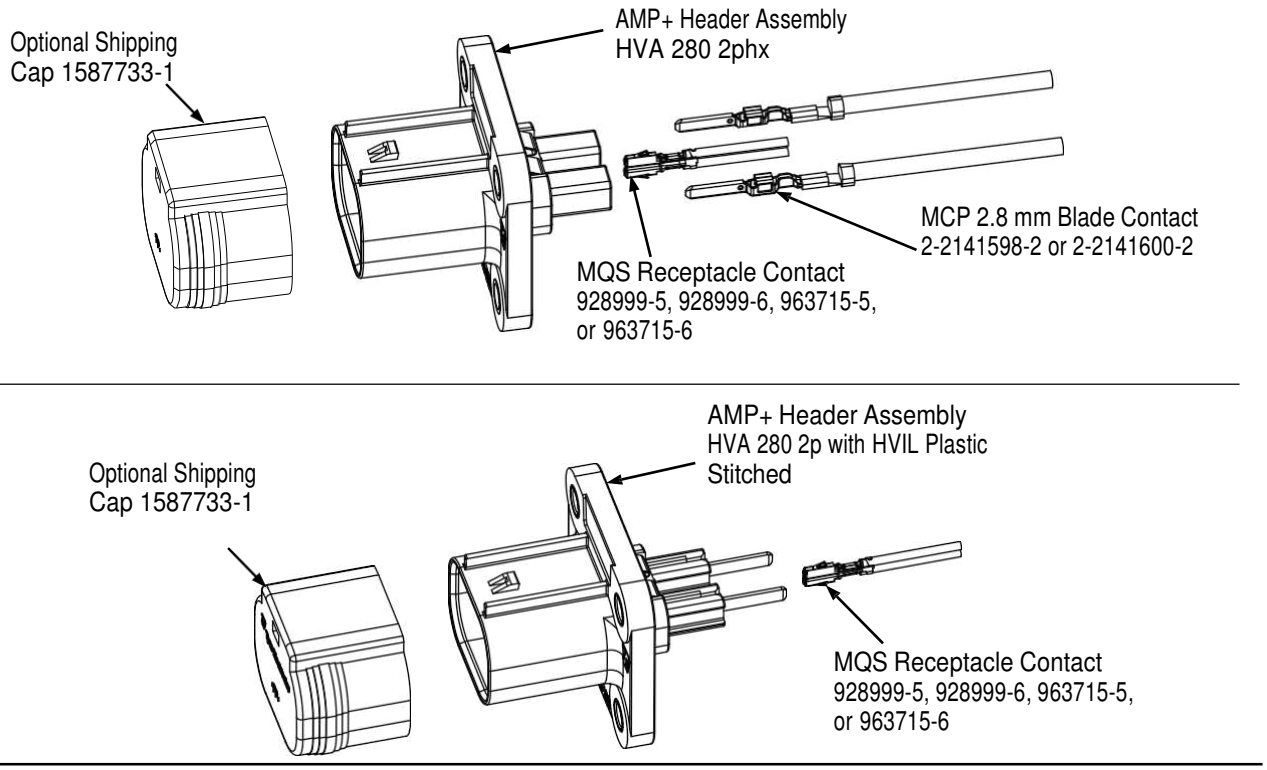


Figure 1

1. INTRODUCTION

This instruction sheet provides assembly (mounting header, inserting contacts, and mating header with plug) and disassembly (unmating) procedures for 2-position sealed AMP+ header HVA 280 2phx. Components (available separately) are shown in Figure 1.

NOTE
The optional shipping cap is available for the header to protect the contacts from damage or contaminates during shipping. This cap is not intended to provide protection from liquid of any type.

Reasons for re-issue of this instruction sheet are provided in Section 4, Revision Summary.

2. ASSEMBLY

2.1. Mount Header

1. Prepare the mounting interface (device) according to customer drawing 2103124 or 2103396.
2. Check that the seal is present on the header. Align the polarization feature of the header with the polarization hole in the device, then push the header onto the device until it is seated against the face of the device. Refer to Figure 2.
3. Obtain four M4 mounting fasteners that are compatible and capable of meeting the required torque of 2.5 ±1 Nm [1.84 ±0.74 lb-ft]. Insert each fastener through a mounting hole in the header and into the hole in the device. Tighten each fastener to the required torque. See Figure 2.

• ***NOTE***
MCP blade contact cavities do not apply to 2103396-[ ].

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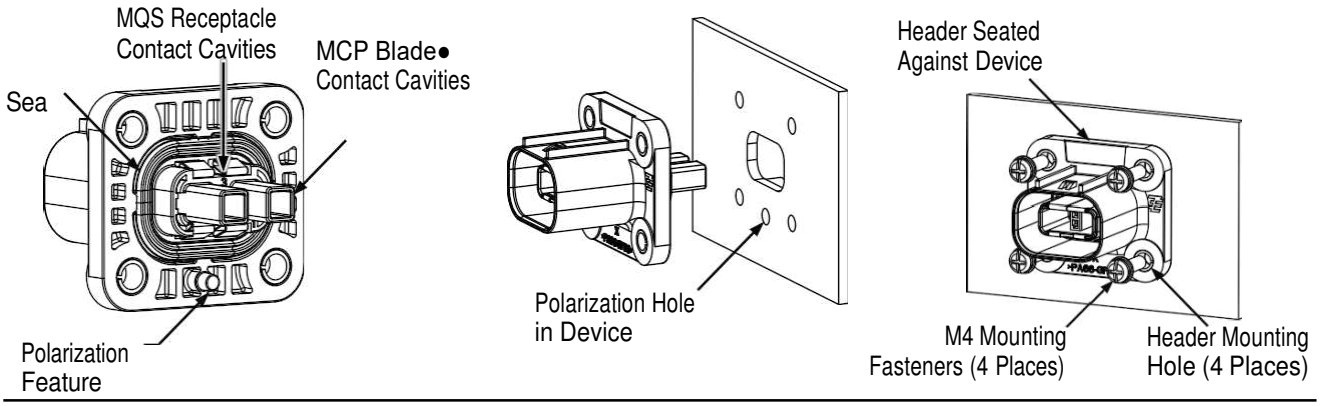


Figure 2

2.2. Install Contacts

1. Prepare the wires, then crimp the contacts according to German application specification 114-18051 (for MCP blade contacts) and German/English application specification 114-18021 (for MQS receptacle contacts). Only wire and contacts that meet the requirements of the application specification can be used. Silver-plated contacts must be used in this high-voltage application.

DANGER
Using contacts having part numbers other than the part numbers listed in Figure 1 could result in hazardous conditions.

2. Note the contact cavity identification (ID) numbers on the wire end of the header. Insert each contact into the appropriate contact cavity until there is an audible click. Refer to Figure 3. Gently pull back on the wire of each contact to verify that the contact is fully locked.

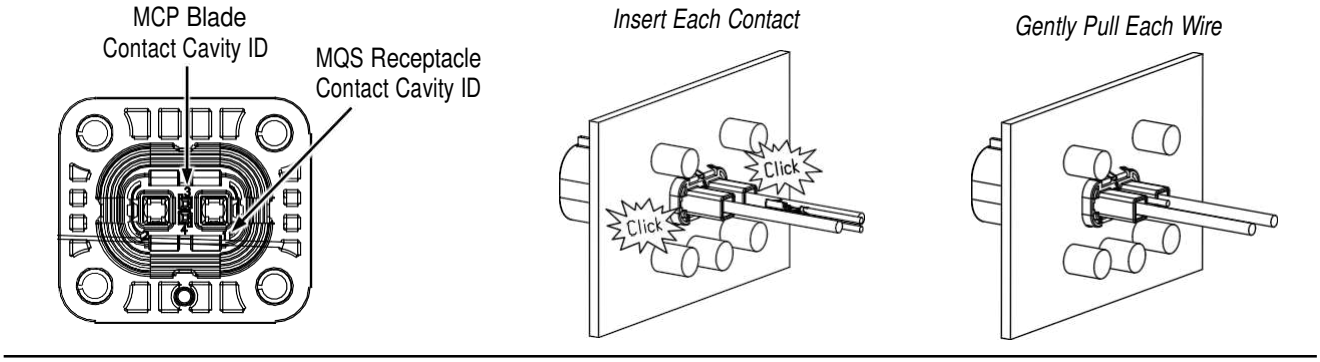


Figure 3

3. If applicable, install the optional shipping cap onto the header as shown in Figure 1.

4. Contact probing is ***not recommended*** due to the possible presence of high-voltage. If continuity checks need to be performed, ensure that the high-voltage power is disabled.

CAUTION
Avoid probing that could damage the contacts or plating.

2.3. Mate Connectors

1. If installed, pull the shipping cap straight off of the header.

2. Align the mating faces of the plug and header, then push the connectors together until the latches engage. Note that there are two latches (primary and secondary); therefore, there will be two audible clicks when the connectors are fully mated. See Figure 4.

DANGER
If the connectors are not fully mated, the HVIL circuit could open and shut down the electrical system.

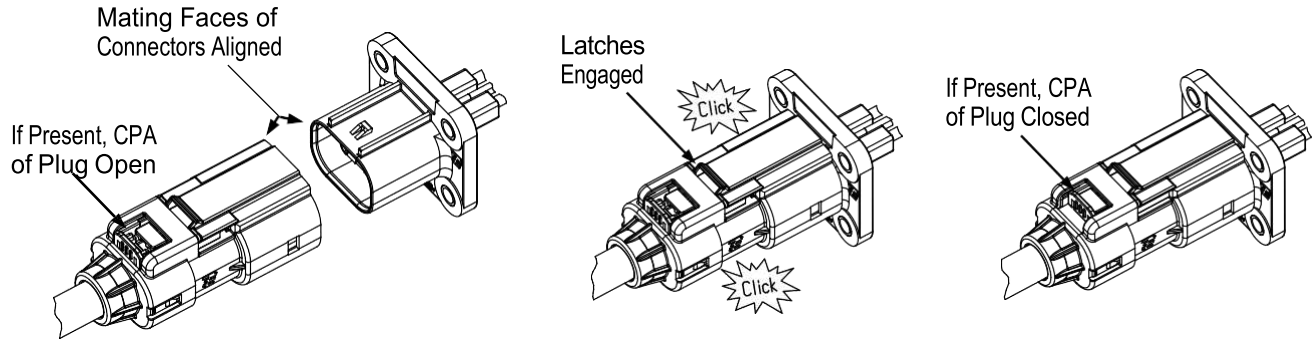


Figure 4

If the connectors do not fit together easily, check the following:

— the keying options of the plug and header match

— the plug and header are correctly oriented at 180 degrees

3. Pull lightly on the plug to verify that the connectors are fully latched. Then, if present, seat the CPA of the plug by pushing it toward the header. See Figure 4.

3. DISASSEMBLY

1. Disable the high-voltage power.

DANGER
Exercise extreme diligence to verify that the high-voltage power is disabled before unmating the connectors.

2. If present, open the CPA of the plug by sliding it away from the header. Refer to Figure 5.
3. Depress the primary latch of the plug, and simultaneously pull the plug until it stops. At this point, the connectors are not fully unmated; therefore, do not force the connectors apart. See Figure 5.
4. Using a small screwdriver or fingertip (depending on style of header), depress the secondary latch located in the window just in front of the primary latch, and simultaneously pull the plug and header apart. Do not pull on the cable or cable seal retainer. Refer to Figure 5.

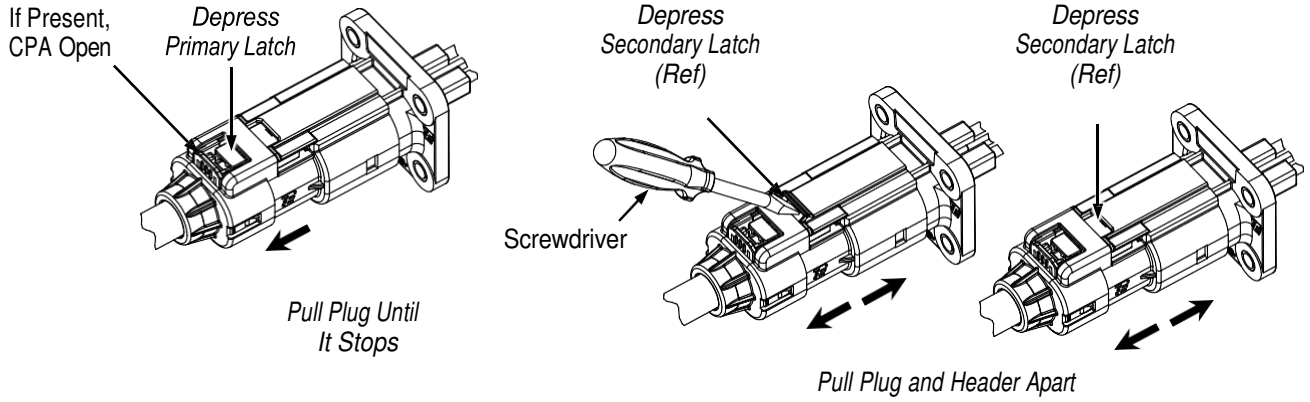


Figure 5

4. REVISION SUMMARY

- Updated document to corporate requirements, deleted part number from title, changed and added new art to Figure 1, added new information to Paragraph 2.1.1, and added new NOTE to Paragraph 2.1.3.