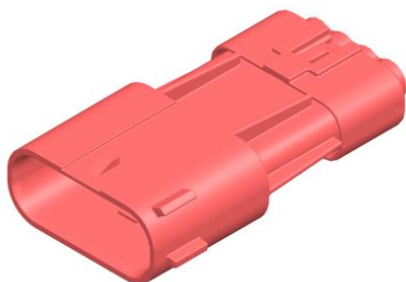


### SQUBA 3.6

#### INTERCONNECT SYSTEMS



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		CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>



# APPLICATION SPECIFICATION

## 1.0 SCOPE

This Application Specification covers the application and end-usage requirements for the Squba 3.6 Sealed Wire-To-Wire, 3.60mm pitch single row connector series which uses copper terminals with tin plated contact interface terminated with 16, 18 and 20 AWG wire using Molex crimp technology. The mated system meets IP68 requirements.

## 2.0 PRODUCT DESCRIPTION

### 2.1 NAMES AND SERIES NUMBER(S)

DESCRIPTION	SERIES NUMBER
Squba 3.6, Receptacle Crimp Terminal	<a href="#">207777</a>
Squba 3.6, Plug Crimp Terminal	<a href="#">207776</a>
Squba 3.6, Receptacle assembly	<a href="#">207782</a>
Squba 3.6, Receptacle assembly with Key/Colors	
Squba 3.6, Plug assembly	<a href="#">207778</a>
Squba 3.6, Plug assembly with Key/Colors	
Squba 3.6, Plug assembly with Key/Colors and Clip slot	
Squba Plug Weather Cap	<a href="#">220423</a>
Squba Receptacle Weather Cap	<a href="#">220424</a>
Squba 3.6 Male Seal Plug	<a href="#">224248</a>
Squba 3.6 Female Seal Plug	<a href="#">224249</a>

### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, plating's, and markings.

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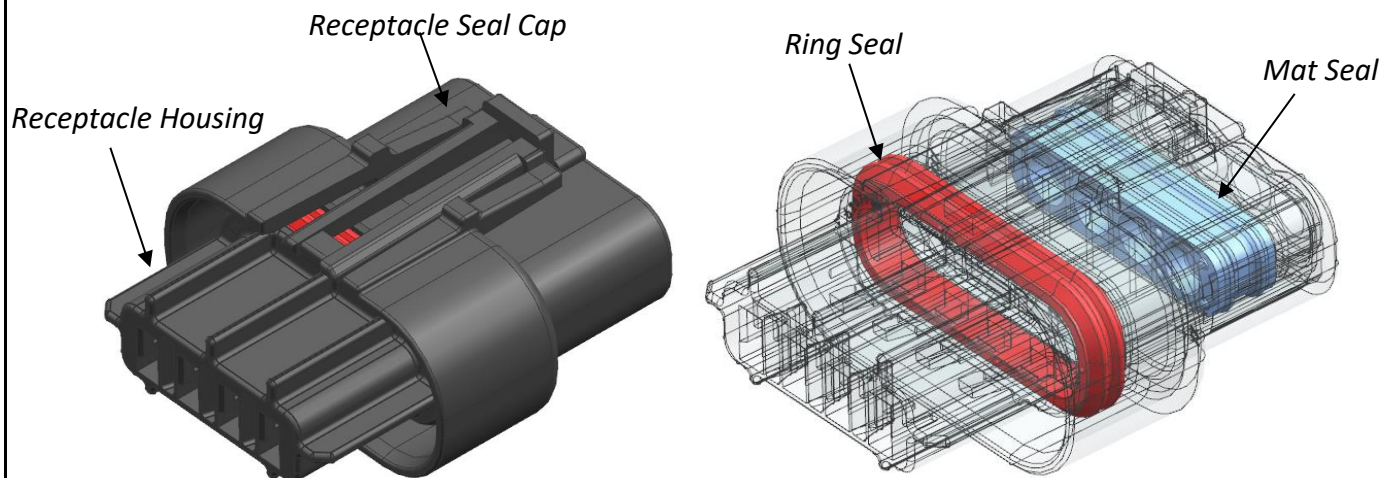
## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Product Specification.....	2077760000-PS
Receptacle Assembly sales drawing.....	2077820000-SD
Plug Assembly sales drawing.....	2077780000-SD
Receptacle Crimp Terminal sales drawing.....	2077770000-SD
Plug Crimp Terminal sales drawing.....	2077760000-SD
Plug weather Cap sales drawing.....	2204230000-SD
Receptacle Weather Cap sales drawing.....	2204240000-SD
Male Seal Plug Sales Drawing.....	2242480000-SD
Female Seal Plug Sales Drawing.....	2242490000-SD
Test Summary.....	2077760000-TS
Receptacle Assembly Packaging Specification.....	2077820000-PK
Plug Assembly Packaging Specification.....	2077780000-PK
Receptacle Crimp Terminal Packaging Specification.....	2077770000-PK
Plug Crimp Terminal Packaging Specification.....	2077760000-PK
Plug weather Cap Packaging Specification.....	2204230000-PK
Receptacle Weather Cap Packaging Specification .....	2204240000-PK
Seal Plug Packaging Specification.....	2242480000-PK
Applicator Tool Crimp Specification.....	Refer table under section 4.2
Hand Tool Crimp Specification.....	Refer table under section 4.2

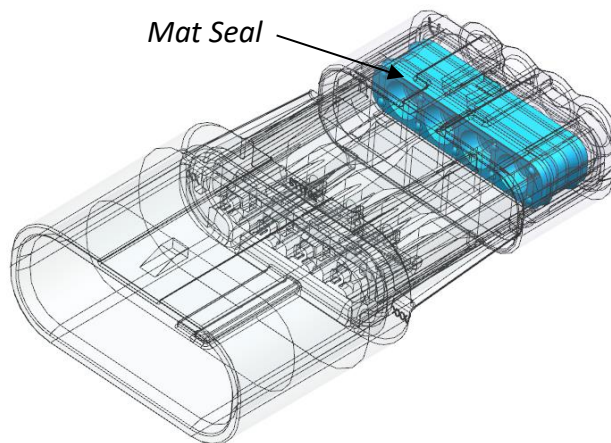
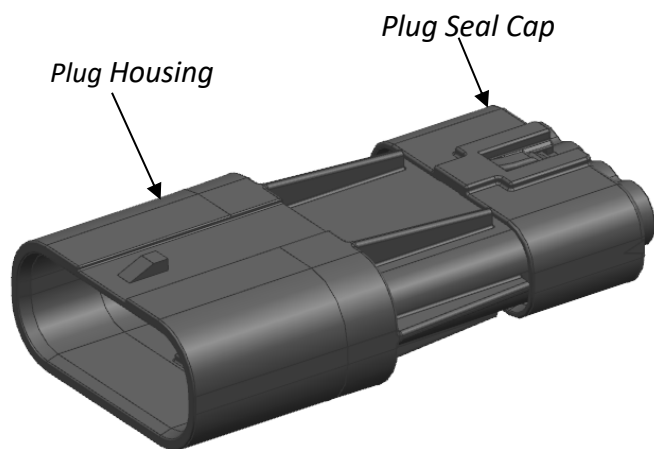
## 4.0 PRODUCT DEFINITION

### 4.1 CONNECTOR ASSEMBLIES

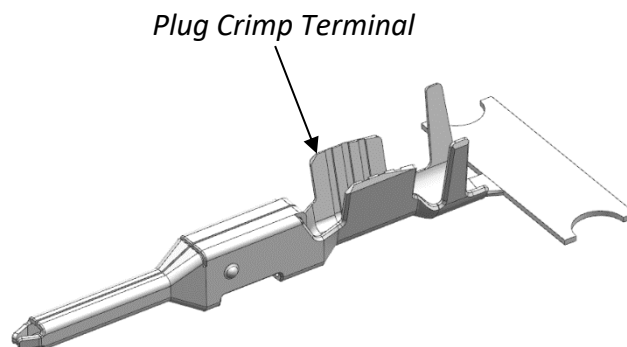
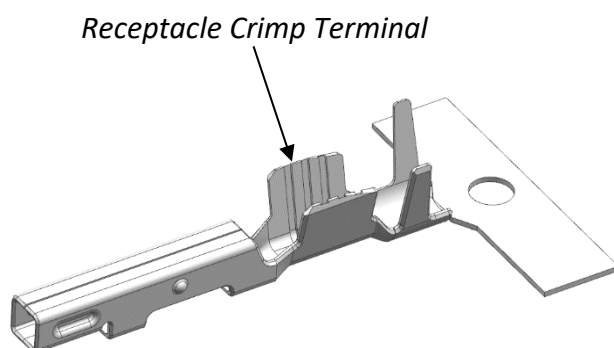
(4 CKT CONNECTORS SHOWN)



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<div>DOCUMENT NUMBER:</div> <div>2077760000-AS</div>		<div>DOC TYPE:</div> <div>PS</div>	<div>DOC PART:</div> <div>000</div>	<div>CREATED / REVISED BY:</div> <div>GOOLAM</div>	<div>CHECKED BY:</div> <div>GOOLAM</div>	<div>APPROVED BY:</div> <div>MRAMAKRISHNA</div>	



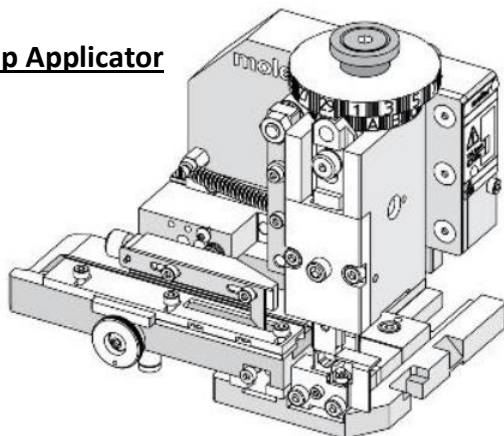
## 4.2 CRIMP TERMINALS



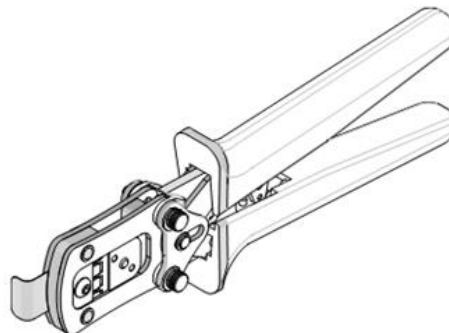
Crimp Tools	Description	Wire Style	Order Number	Crimp Spec Document Number
Crimp Hand Tools	16 AWG Male & Female Terminal	UL 1007/1061	2133090000	2133090000
	18 AWG Male & Female Terminal	UL 1007/1061	2133090100	2133090100
	20 AWG Male & Female Terminal	UL 1007/1061	2133090200	2133090200
	18 AWG Male & Female Terminal	UL 1015/1230	TBD	TBD
	20 AWG Male & Female Terminal	UL 1015/1230	TBD	TBD
Crimp Applicators	16 AWG Female Terminal	UL 1007/1061	2130690600	2130690600
	16 AWG Male Terminal	UL 1007/1061	2130690700	2130690700
	18-20 AWG Female Terminal	UL 1007/1061	2130690800	2130690800
	18-20 AWG Male Terminal	UL 1007/1061	2130690900	2130690900
	18-20 AWG Female Terminal	UL 1015/1230	2130695000	2130695000
	18-20 AWG Male Terminal	UL 1015/1230	2130694900	2130694900

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Crimp Applicator



Hand Tool

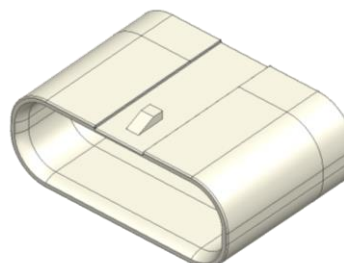


## 4.3 WEATHER CAPS

*Plug Weather Cap*

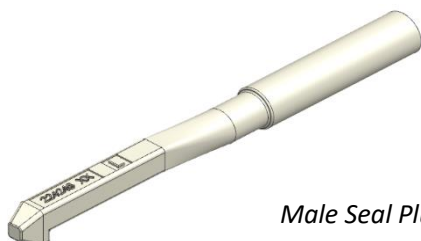


*Receptacle weather cap*

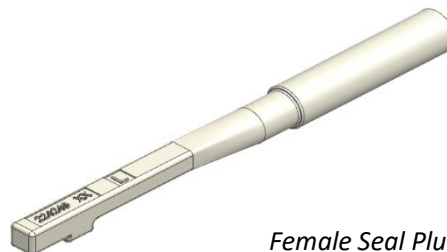


## 4.4 SEAL PLUGS

*Male Seal Plug*



*Female Seal Plug*

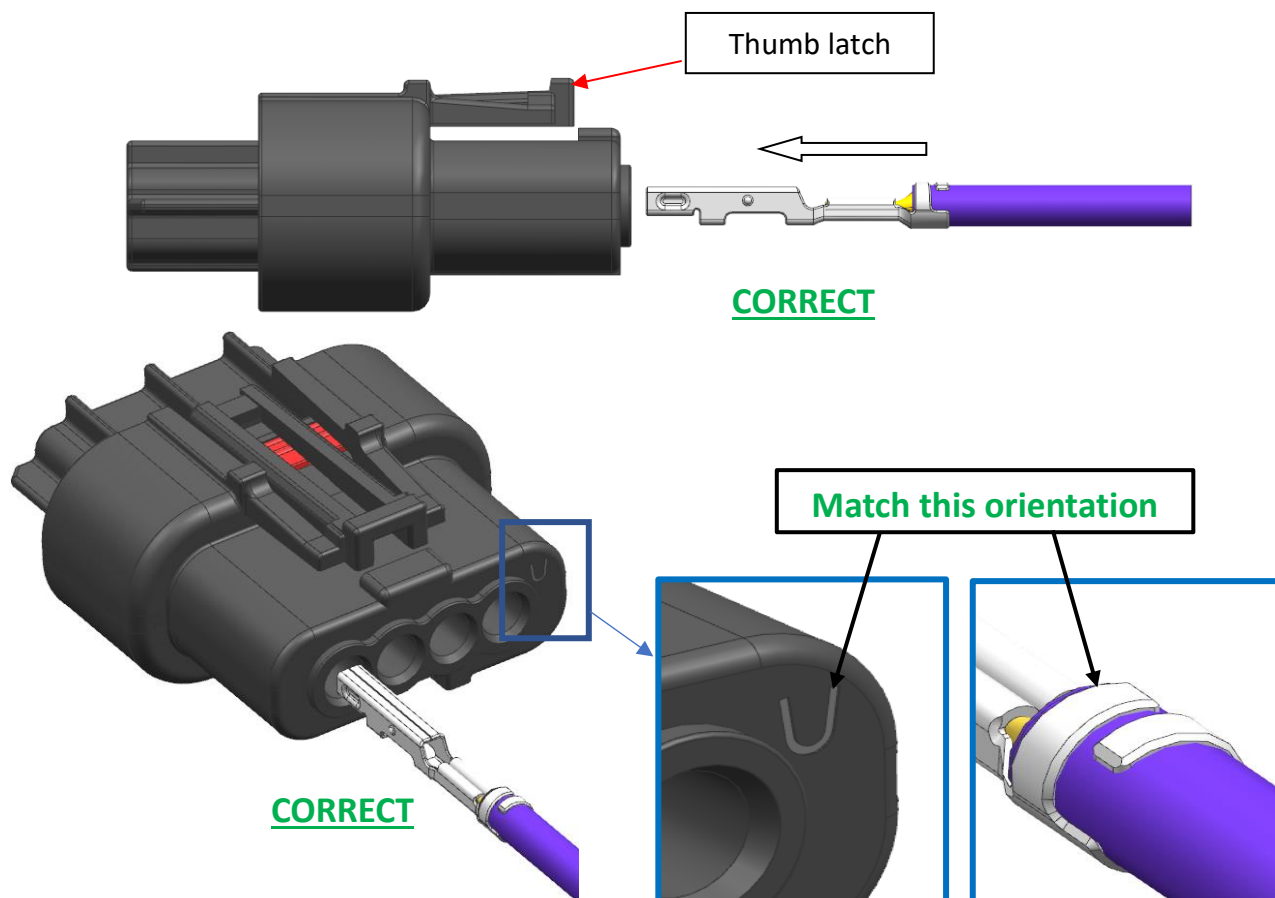


REVISION:	ECM INFORMATION:	TITLE:				SHEET No.
<b>D</b>	EC No: <b>760095</b> DATE: <b>23/08/18</b>	<b>APPLICATION SPECIFICATION SQUBA 3.6 INTERCONNECT SYSTEM</b>				<b>5 of 22</b>
DOCUMENT NUMBER:	DOC TYPE:	DOC PART:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
<b>2077760000-AS</b>	<b>PS</b>	<b>000</b>	<b>GOOLAM</b>	<b>GOOLAM</b>	<b>MRAMAKRISHNA</b>	

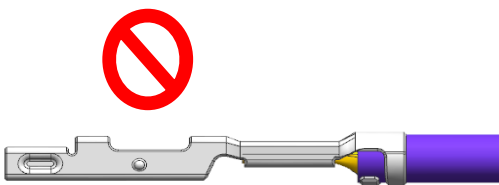
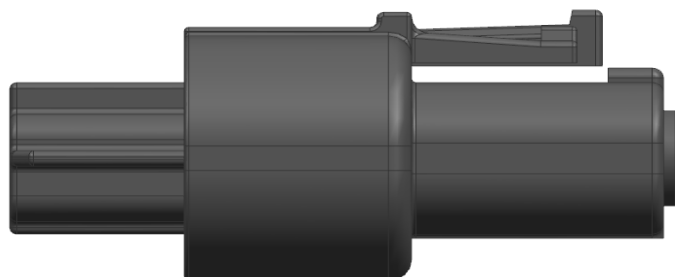


## 5.0 TERMINAL ORIENTATION DURING INSERTION INTO HOUSING

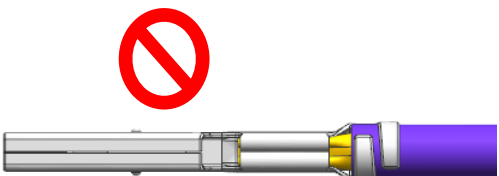
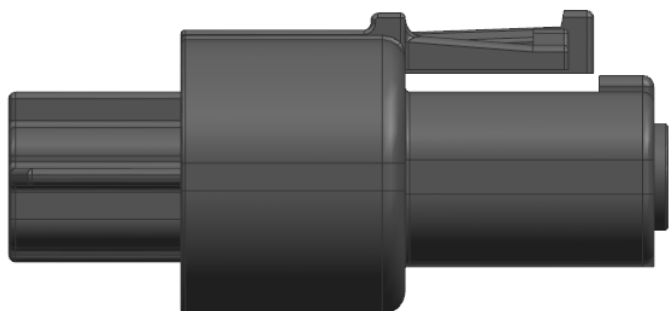
Terminals are to be inserted in the housings as shown below on sheet 5-8. Notice the orientation of the terminal body relative to the receptacle thumb latch and plug thumb latch hook. Notice the orientation of the terminal body relative to the “U” marking in the housings. Do not force terminals into the housing cavity. The terminal and housing are designed with silicon seals and other features that will provide some light resistance during insertion as well as retention after insertion but if excessive resistance is felt during insertion pull terminal back out and double check that the terminal orientation per sheets 5-8. Terminals are to be inserted until they are fully seated and audible click is heard. The housing provides a stopping surface and the housing lock finger provides terminal retention and a light audible click to indicate a fully inserted terminal. You can use the PUSH → CLICK → PULL method (sheet 10) during terminal insertion to ensure fully seated terminal.



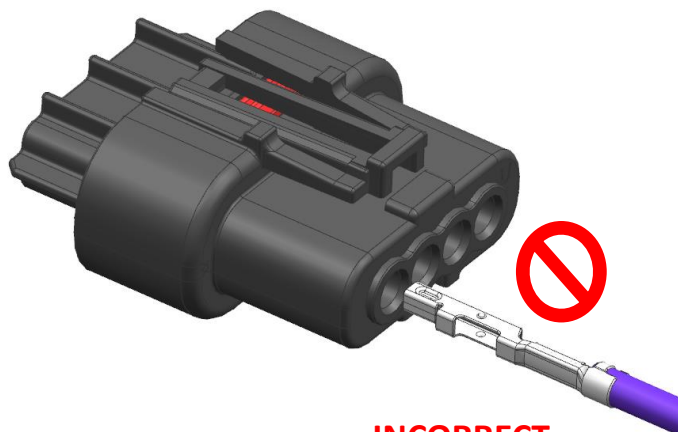
<div>REVISION:</div> <div>D</div>	<div>ECM INFORMATION:</div> <div>EC No: 760095</div> <div>DATE: 23/08/18</div>	<div>TITLE:</div> <div>APPLICATION SPECIFICATION</div> <div>SQUBA 3.6 INTERCONNECT SYSTEM</div>				<div>SHEET No.</div> <div>6 of 22</div>
<div>DOCUMENT NUMBER:</div> <div>2077760000-AS</div>		<div>DOC TYPE:</div> <div>PS</div>	<div>DOC PART:</div> <div>000</div>	<div>CREATED / REVISED BY:</div> <div>GOOLAM</div>	<div>CHECKED BY:</div> <div>GOOLAM</div>	<div>APPROVED BY:</div> <div>MRAMAKRISHNA</div>



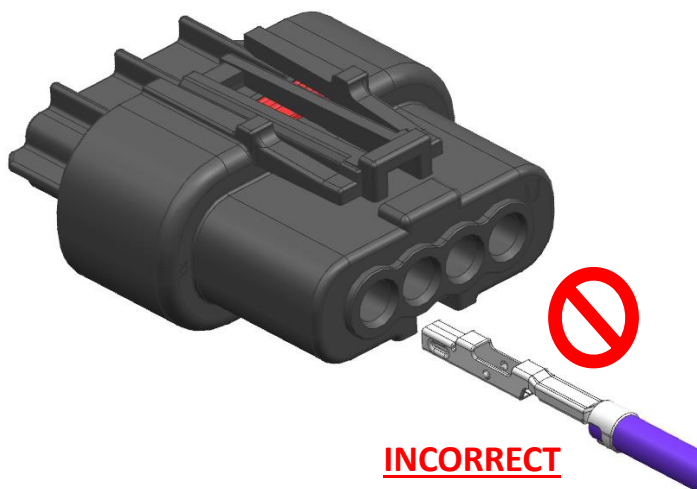
**INCORRECT**



**INCORRECT**

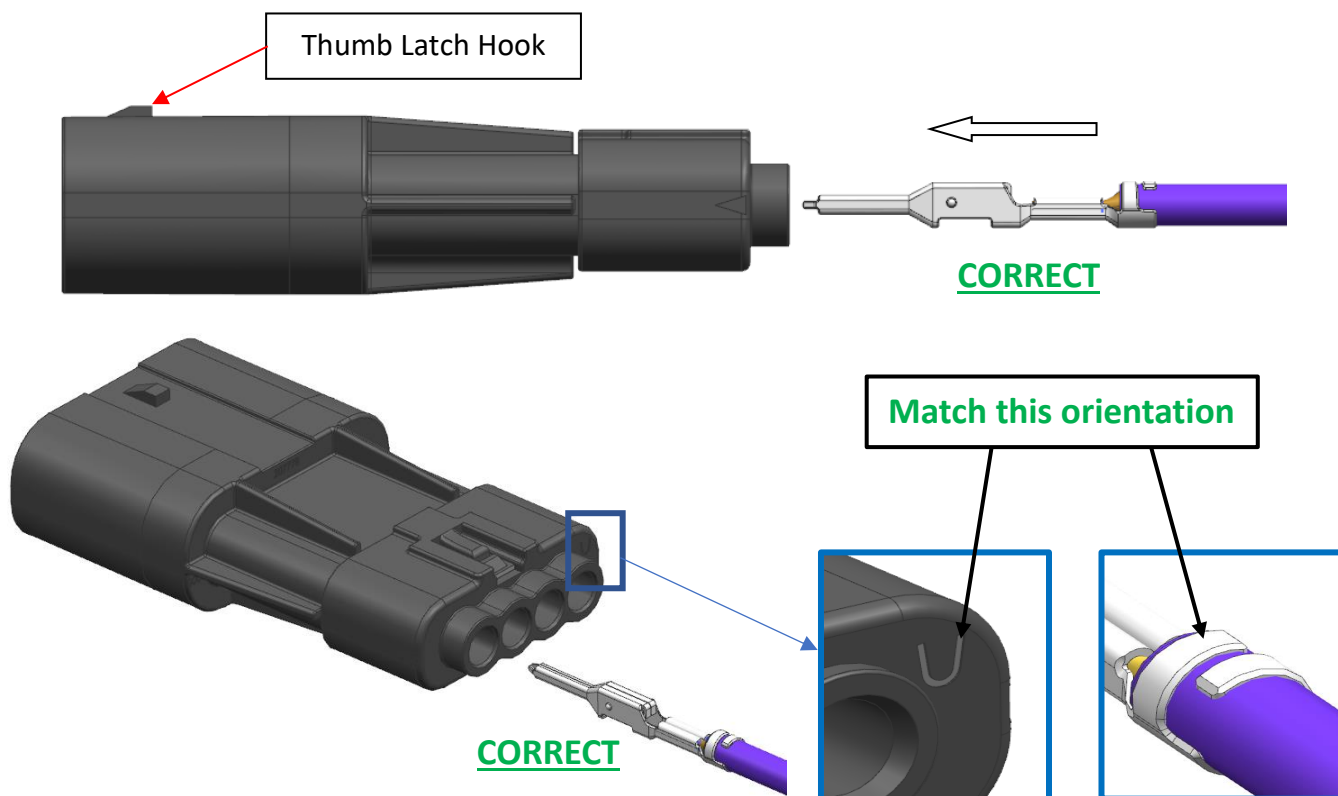


**INCORRECT**

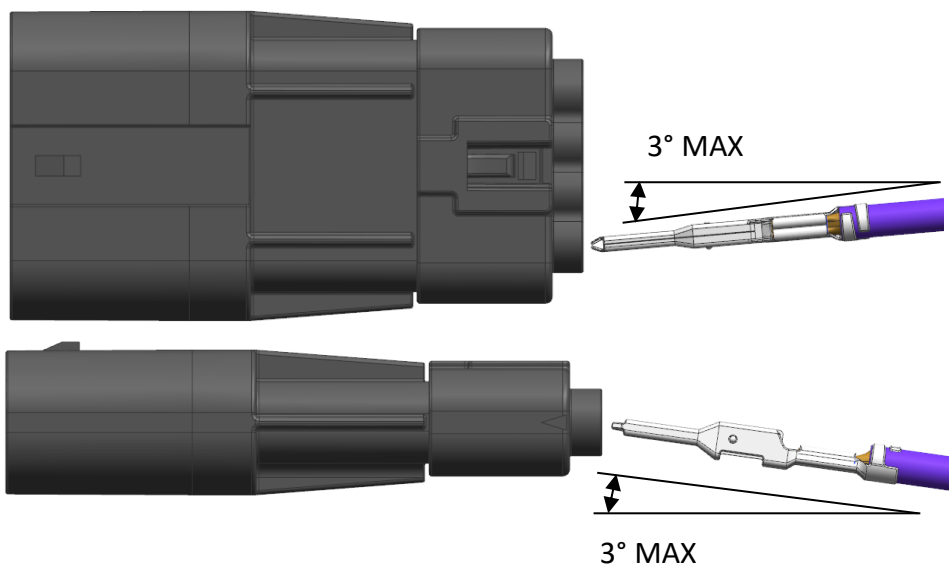


**INCORRECT**

REVISION: <b>D</b>	ECM INFORMATION: EC No: <b>760095</b> DATE: <b>23/08/18</b>	TITLE: <b>APPLICATION SPECIFICATION SQUBA 3.6 INTERCONNECT SYSTEM</b>				SHEET No. <b>7 of 22</b>
DOCUMENT NUMBER: <b>2077760000-AS</b>	DOC TYPE: <b>PS</b>	DOC PART: <b>000</b>	CREATED / REVISED BY: <b>GOOLAM</b>	CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>	

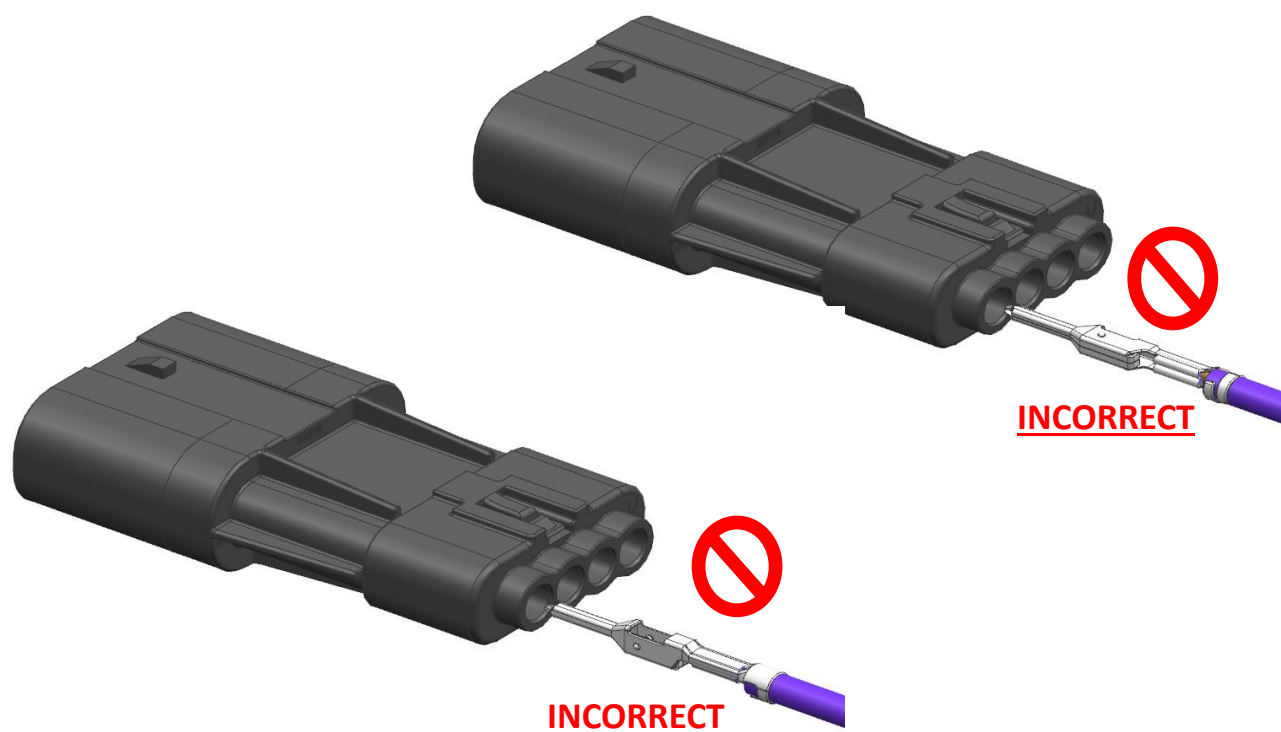


### INSERTION SKEW



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DOCUMENT NUMBER: <b>2077760000-AS</b>	DOC TYPE: <b>PS</b>	DOC PART: <b>000</b>	CREATED / REVISED BY: <b>GOOLAM</b>
	CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>	

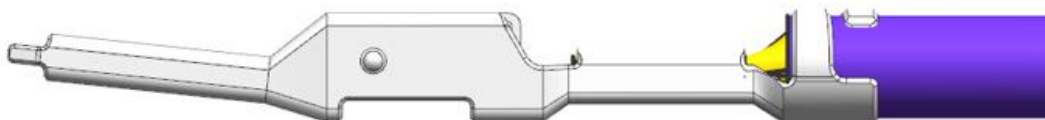
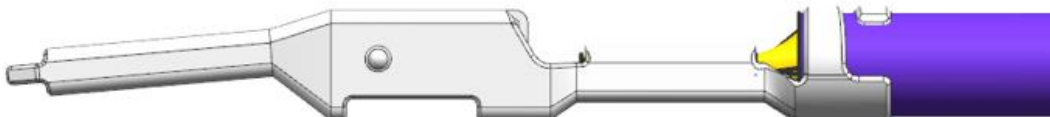
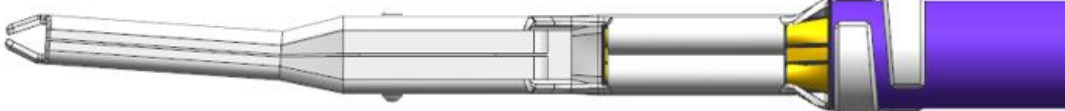
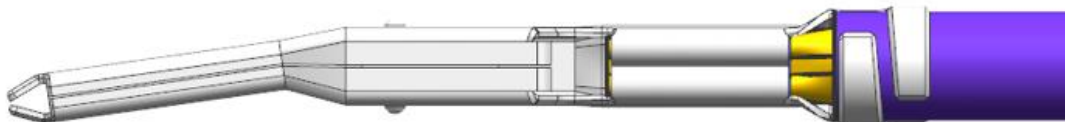




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**CARE MUST BE TAKEN WHEN HANDLING THE TERMINAL PINS.**

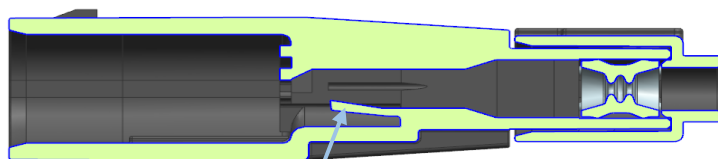
**DO NOT USE OR TRY TO ATTEMPT TO REWORK BENT OR DAMAGED TERMINAL PINS**



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		CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>

### PUSH → CLICK → PULL

(APPLIES TO BOTH RECEPTACLE AND PLUG)

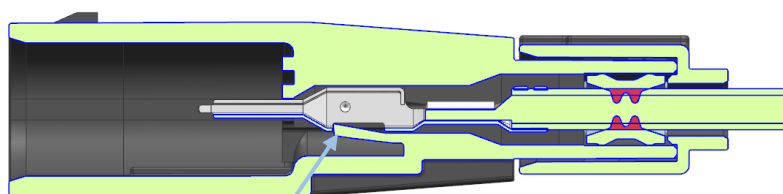


HOUSING LOCK



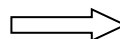
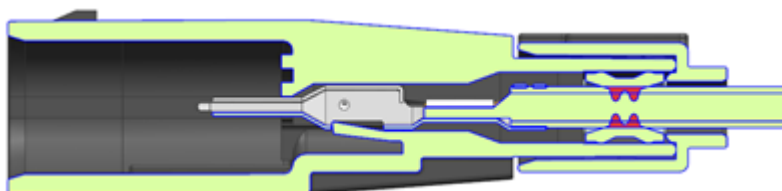
**PUSH** (INSERT TERMINAL)

SLIGHT RESISTANCE WILL BE FELT AS  
TERMINAL PUSHES THROUGH THE SEAL  
THEN AGAIN AS THE TERMINAL  
ENGAGES THE HOUSING LOCK.



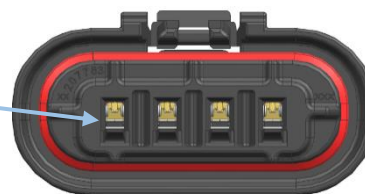
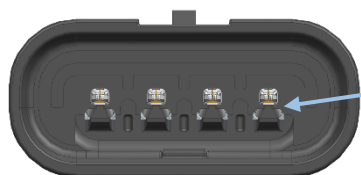
**CLICK** (LISTEN FOR AUDIBLE CLICK)

AUDIBLE CLICK IS  
HEARD AFTER  
TERMINAL ENGAGES  
THE HOUSING LOCK



**PULL** (GENTLY PULL ON WIRE)

PULL GENTLY ON WIRE TO ENSURE  
TERMINAL IS FULLY SEATED AND  
SECURED BY HOUSING LOCK.



**FULLY SEATED**  
MATING SIDE VIEW

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<b>2077760000-AS</b>	<b>PS</b>	<b>000</b>	<b>GOOLAM</b>
	CHECKED BY:	APPROVED BY:	
	<b>GOOLAM</b>	<b>MRAMAKRISHNA</b>	

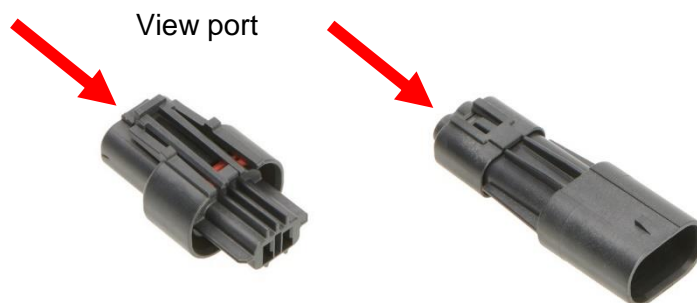
Squba 3.6 Accepts Multiple wire styles. Refer Product sales drawings for compatible part identification. This can be broadly Classified as thin insulation (UL1007,1061 or equivalent) and thick insulation wire styles (UL1015, 1230 or equivalent). Following are the compatible terminals.

Plug Terminal	Receptacle terminal	AWG- Wire Style
2077760001	2077770001	16 AWG – UL1007/1061 (thin)
2077760002	2077770002	18-20 AWG – UL1007/1061 (thin)
2077760003	2077770003	18-20AWG – UL1015/1230 (thick)

However, if desired, any combination of plug and receptacle terminals can be mated, based on application.

For Housing details, Refer [2077780000-SD](#), and [2077820000-SD](#).

To identify the wire style compatible housings, view the color of the mat seal from the terminal cavity.

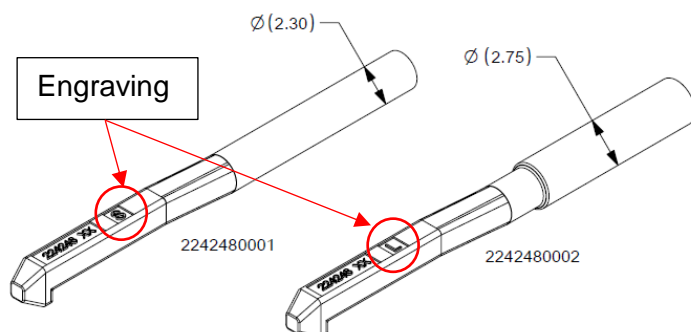


Mat Seal color	Image	Wire Style
<i>Light Blue</i>		UL1007/1061 or Equivalent
<i>Rust Red</i>		UL1015/1230 or Equivalent

**Do not use wrong wire style as it compromises the IP68 rating of the connector system.  
Refer sales drawing for more details.**

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<div>DOCUMENT NUMBER:</div> <div>2077760000-AS</div>		<div>DOC TYPE:</div> <div>PS</div>	<div>DOC PART:</div> <div>000</div>	<div>CREATED / REVISED BY:</div> <div>GOOLAM</div>	<div>CHECKED BY:</div> <div>GOOLAM</div>	<div>APPROVED BY:</div> <div>MRAMAKRISHNA</div>

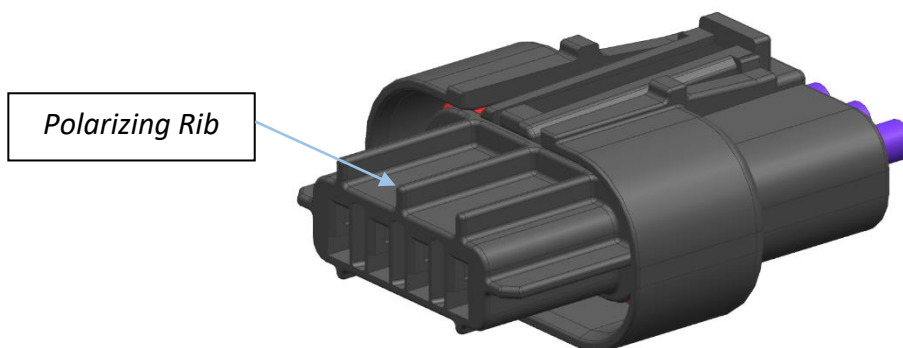
Seal Plugs consists of two different types based on the grommet seal and the housing assembly. The Seal plugs for different seals can be identified by engraving "S" (UL1007,1061 or equivalent) and "L" (UL1015, 1230 or equivalent). Do not use wrong seal plugs as it compromises the IP68 rating of the connector system.



## 6.0 MATING AND UN-MATING

### 6.1 CONNECTORS

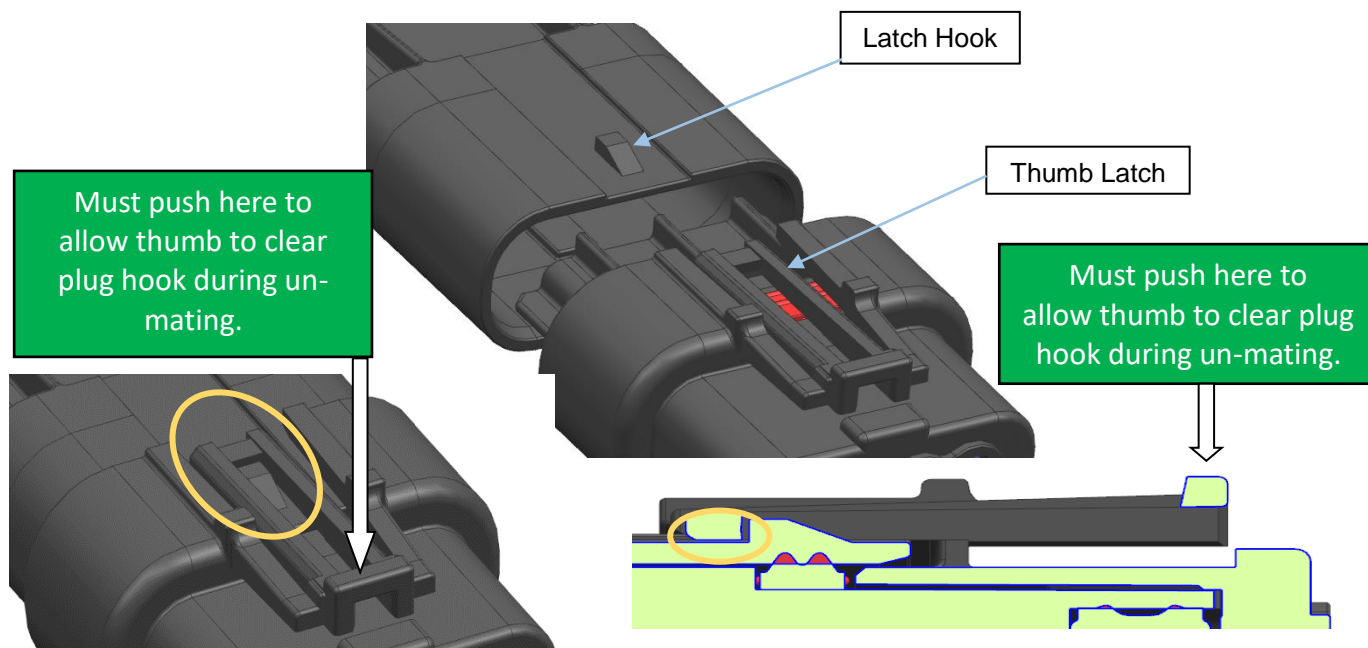
This product contains a polarization feature to ensure proper orientation during mating. This rib feature is shown below. When mated in the improper orientation this rib feature will not allow the product to be mated.



This product also contains a positive locking thumb latch and corresponding latch hook to ensure full mating and prevent accidental un-mating during normal operation. This thumb latch and latch hook features and full mating of the connectors occurs when and after the thumb latch is fully engaged and locked as shown below. A light audible click is heard to indicate fully mated connectors.

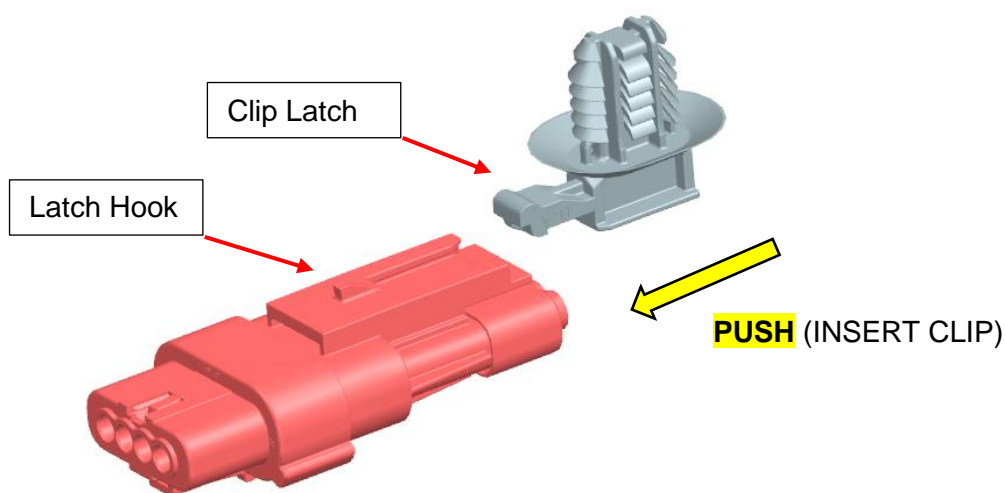
REVISION: <b>D</b>	ECM INFORMATION: EC No: <b>760095</b> DATE: <b>23/08/18</b>	TITLE: <b>APPLICATION SPECIFICATION SQUBA 3.6 INTERCONNECT SYSTEM</b>	SHEET No. <b>13 of 22</b>
DOCUMENT NUMBER: <b>2077760000-AS</b>	DOC TYPE: <b>PS</b>	DOC PART: <b>000</b>	CREATED / REVISED BY: <b>GOOLAM</b>
		CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>



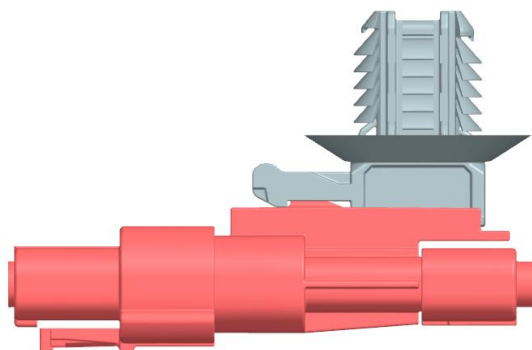
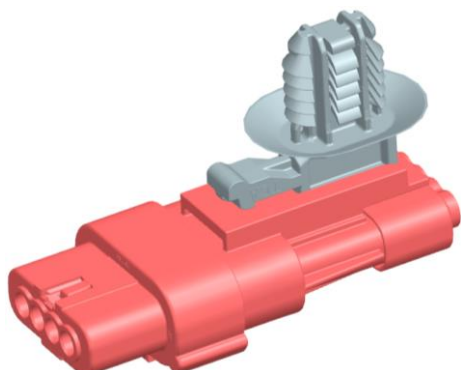


## 6.2 PLUG WITH CLIP SLOT AND CLIP

This product contains a Clip slot Feature which is compatible with USCAR-2 Compliant EWCAP-005-7; 7mm Standard Clip slot and Mates with all 7mm Clips intended to mate with interface provided in EWCAP-005 Rev D.



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		CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>

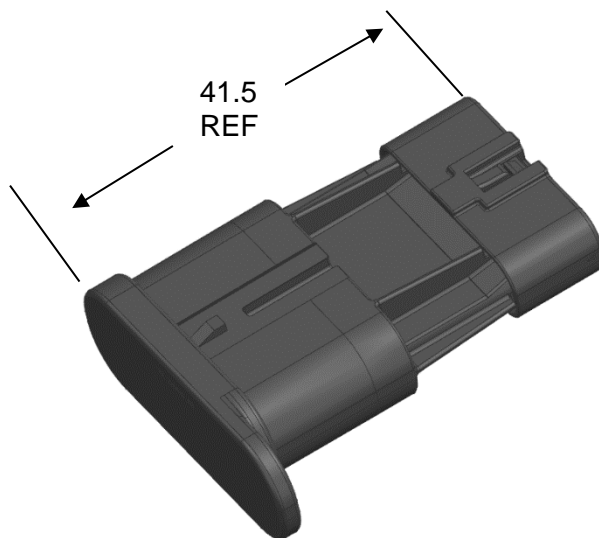


**CLICK** (LISTEN FOR AUDIBLE CLICK)

**NOTE: CLIP USED IN PICTURES FOR REPRESENTATIONAL PURPOSE ONLY. MOLEX RECOMMENDS USING CLIPS WHICH ARE INTENDED TO BE USED WITH EWCAP- 005 7MM CLIP SLOT**

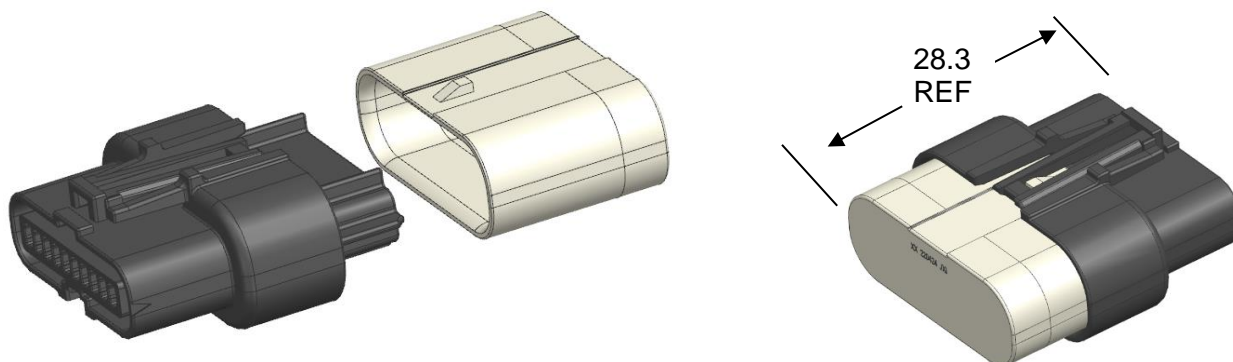
## 6.3 WEATHER CAPS

Plug Weather Caps are to be inserted in the Plug housings as shown below. Notice the orientation of the Cap with the plug Housing.



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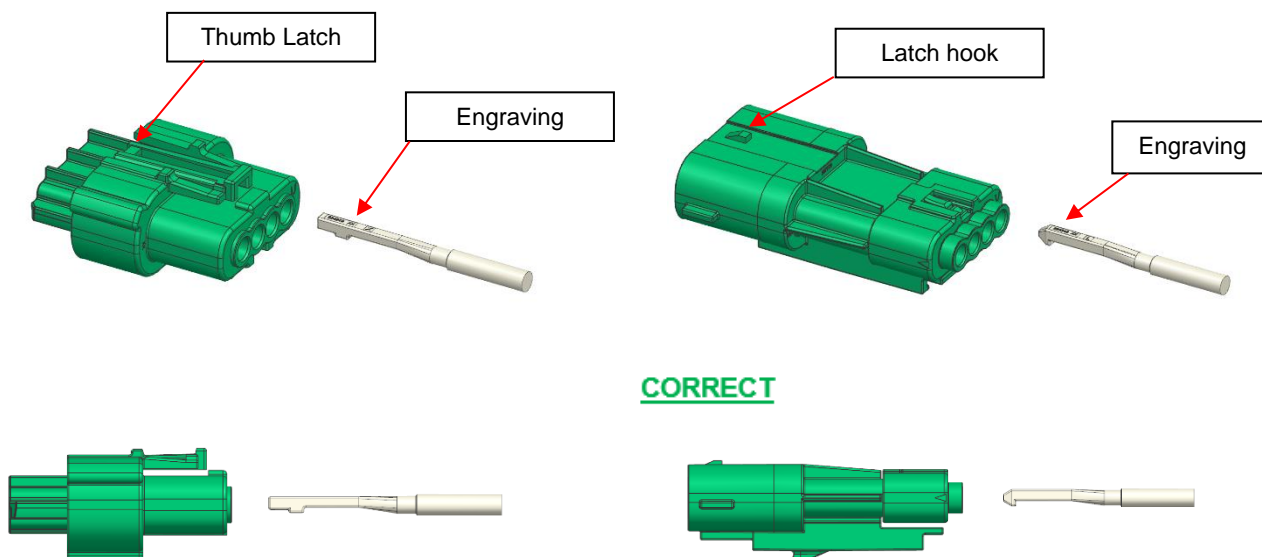
Receptacle weather cap can be mated to receptacle which a positive locking thumb latch and corresponding latch hook to ensure full mating and prevent accidental un-mating during normal operation. This thumb latch and latch hook features and full mating of the assembly occurs when and after the thumb latch is fully engaged and locked as shown below. A light audible click is heard to indicate fully mated.



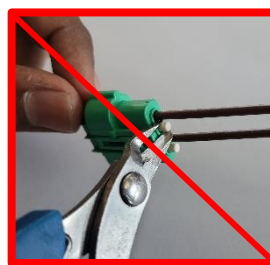
## 6.4 SEAL PLUGS

Seal plugs are to be inserted in the housings as shown below. Notice the orientation of the seal plug body relative to the receptacle thumb latch and plug thumb latch hook. Notice the orientation of the terminal body relative to the latch hook. Do not force Seal Plug into the housing cavity. The housing is designed with silicon seals and other features that will provide some light resistance during insertion as well as retention after insertion but if excessive resistance is felt during insertion pull Seal Plug back out and double check the orientation. Seal Plugs are to be inserted until they are fully seated, and audible click is heard. The housing provides a stopping surface, and the housing lock finger provides seal plug retention and a light audible click to indicate a fully inserted plug. You can use the PUSH - CLICK - PULL method during seal plug insertion to ensure that it is fully seated.

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Cavity plugs can be trimmed flush to avoid wire chafing and avoid cavity plug dislocation/push through, the decision to trim is the discretion of the user. Cavity plugs must be installed, and trimmed before wires are installed.



### 7.0 PACKAGING

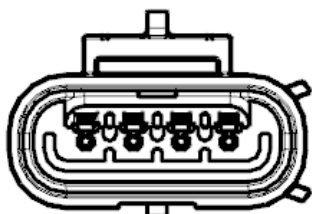
Parts shall be packaged to protect against damage during handling, transit and storage. See packaging specifications listed in section 3.0 (sheet 2).

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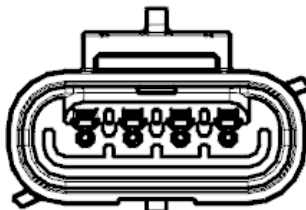
## 8.0 POLARIZATION FEATURE - KEY/COLORS

### 8.1 PLUG KEY CONFIGURATIONS

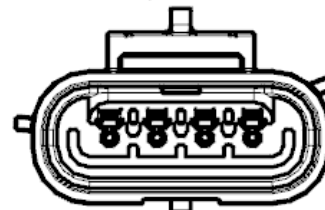
KEY A, RED COLOR



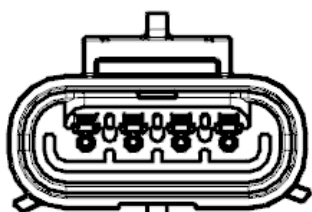
KEY B, NATURAL COLOR



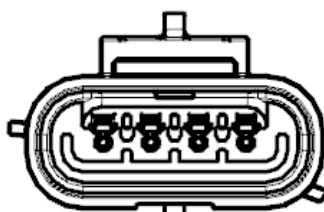
KEY C, GRAY COLOR



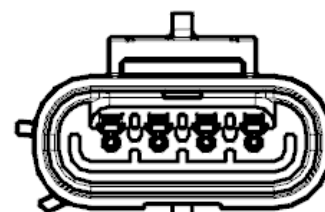
KEY D, YELLOW COLOR



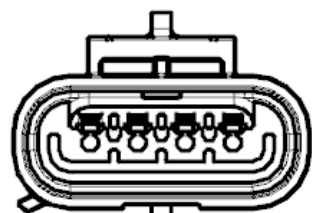
KEY E, BROWN COLOR



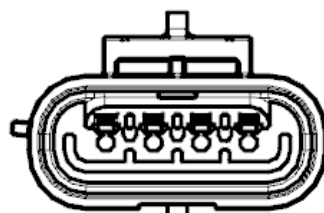
KEY F, ORANGE COLOR



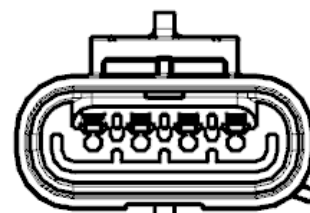
KEY G, BLUE COLOR



KEY H, GREEN COLOR



KEY I, MINT COLOR



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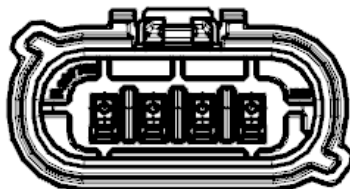


## 8.2 RECEPTACLE KEY CONFIGURATIONS

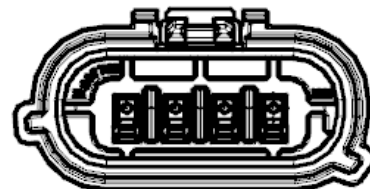
KEY A, RED COLOR



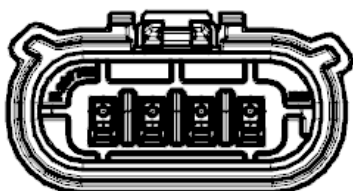
KEY B, NATURAL COLOR



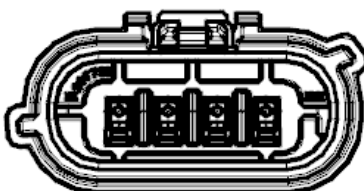
KEY C, GRAY COLOR



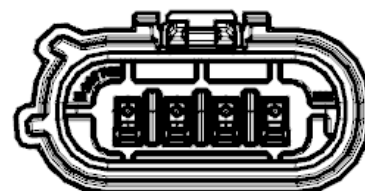
KEY D, YELLOW COLOR



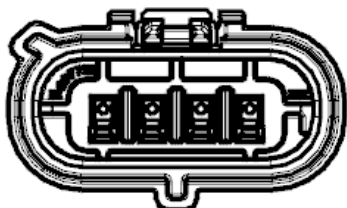
KEY E, BROWN COLOR



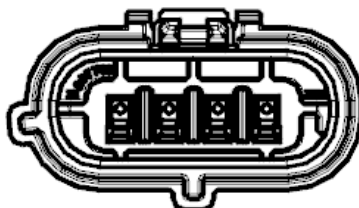
KEY F, ORANGE COLOR



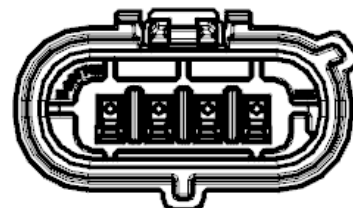
KEY G, BLUE COLOR



KEY H, GREEN COLOR



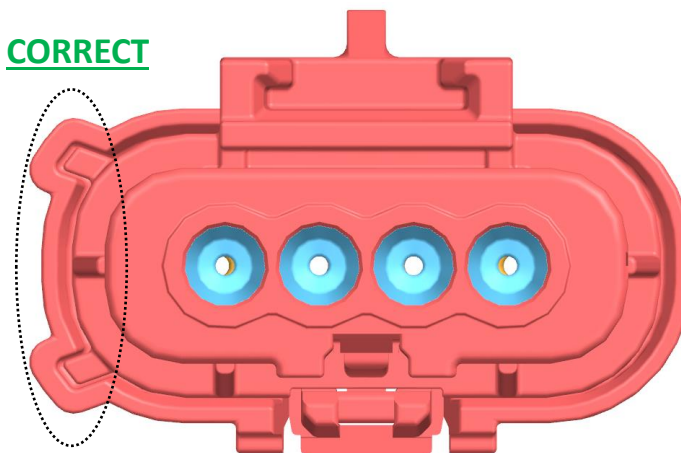
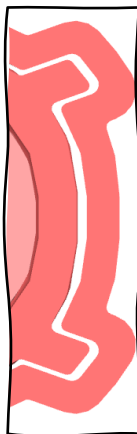
KEY I, MINT COLOR



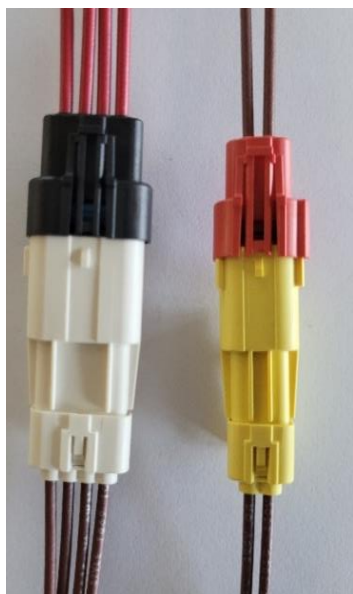
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## 8.3 POLARIZATION FEATURE EFFECTIVENESS

Verify the receptacle latch engagement with plug tab.

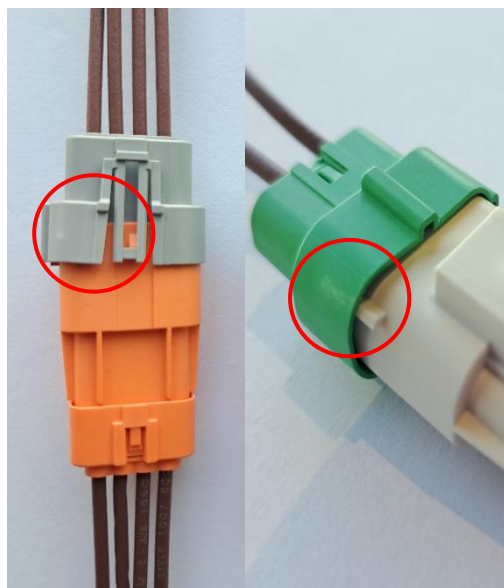


Plug and Receptacle Assembly stubs and do not mate due to incorrect keying. Use appropriate key/colored parts. Do not attempt to insert plugs and receptacles with the wrong polarizations by applying excessive force, as it will damage the parts and compromise the product's functionality. Both the plug and receptacle should have the same color/polarization

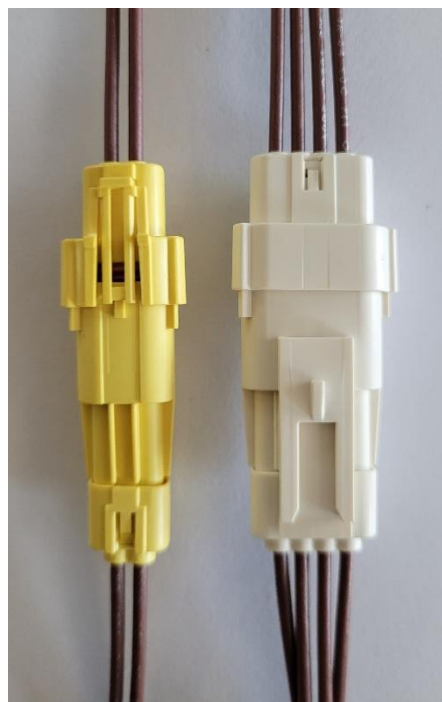


**Incorrect mating:** The Polarization feature resists the mating. However, with excessive force, the parts will mate, causing the housings to crack/ deform. Refer Product Specification for force limits.

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		CHECKED BY: <b>GOOLAM</b>	APPROVED BY: <b>MRAMAKRISHNA</b>

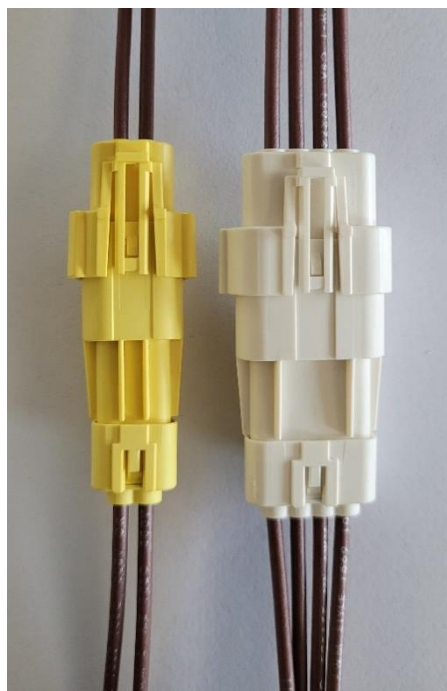


**Effect of Incorrect mating:** With excessive force the parts will mate causing the receptacle assembly to deform. However, receptacle latch will not engage with the plug tab. Refer Product Specification for force limits.



**Correct mating:** The Polarization feature self-aligns the mating parts, such that the latch on the receptacle touches the ramp on plug without any resistance.

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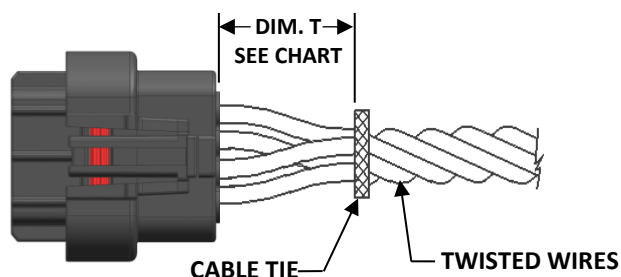


**Correct mating:** The connector halves are correctly mated within the mate force limits specified in the Product Specification.

## 9.0 OTHER INFORMATION

### 9.1 CABLE TIE AND OR WIRE TWIST LOCATION

CKT Size	Dim T Min.
2	50.8 mm (2.00")
3	50.8 mm (2.00")
4	76.2 mm (3.00")



The "T" dimension defines a "free" length of wire, or a length of wire that is not subject to significant bias by external factors such as a wire tie, wire twisting, or other means of bending or deforming of the wires that repositions them from their natural relaxed state or location where they enter the housing. Wires are to be dressed in such a manner to allow the terminals to float freely in the pocket. This dimension is a general recommendation and may need to be adjusted for different wire gauges and wire type and insulation thickness and insulation material.

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