

PRODUCT FAMILY NAME

Squba 1.8

INTERCONNECT SYSTEMS



REVISION DESCRIPTION				APPLICATION SPECIFICATION, SQUBA 1.8					
CHANGE NO.	825240								
REVISED BY	SUAIFR	DATE	2025/06/09	DOC TYPE	DOC TYPE DOC TYPE DESCRIPTION		DOC PART	SERIES	
REV APPR BY	GANESY	DATE	2025/06/12	PS		ENGINEERING SPECIFICATION WORD	000	204220	
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INITIAL DRWN	TGREGORI	DATE	2017/12/07	GENERAL MARKET		2042200000-AS	C4	1 OF 25	
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1.0 <u>SCOPE</u>

This Application Specification covers the application and end-usage requirements for the Squba 1.8 Sealed Wire-To-Wire, 1.80mm pitch single row connector series which uses copper terminals with tin plated contact interface terminated with 22 to 26 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 1.8, Receptacle Assembly	
Squba 1.8, Receptacle Assembly with Key/Colors	204220
Squba 1.8, Receptacle Assembly with Key/Colors and CPA	
Squba 1.8, Plug Assembly	
Squba 1.8, Plug Assembly with Key/Colors	204223
Squba 1.8, Plug Assembly with Clip Slot	204223
Squba 1.8, Plug Assembly with Clip Slot and Key/Colors	
Squba 1.8, Receptacle Crimp Terminal	204301
Squba 1.8, Plug Crimp Terminal	204226
Squba Plug Weather Cap	220423
Squba Receptacle Weather Cap	220424
Squba Seal Plug	224247

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, platings and markings.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Product Specification	2042200000-PS
Receptacle Assembly sales drawing	2042200000-SD
Plug Assembly sales drawing	
Receptacle Crimp Terminal sales drawing	2043010000-SD
Plug weather Cap sales drawing	2204230000-SD
Receptacle Weather Cap sales drawing	2204240000-SD
Plug Crimp Terminal sales drawing	2042260000-SD
Seal Plug sales drawing	2242470000-SD
Test Summary	2042200000-TS
Test Summary	2042200100-TS
Receptacle Assembly Packaging Specification	
Plug Assembly Packaging Specification	2042230000-PK
Plug Assembly with Clip Slot Packaging specification	2042230100-PK
Receptacle Crimp Terminal Packaging Specification	2042200000-PK
Plug Crimp Terminal Packaging Specification	2042230000-PK
Plug weather Cap Packaging Specification	2204230000-PK
Receptacle Weather Cap Packaging Specification	
Seal plug Packaging Specification	2242480000-PK

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GENERAL MARKET

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DATE

DATE

2017/12/07

2018/02/02

INITIAL DRWN

INITIAL APPR

TGREGORI

RHODGE

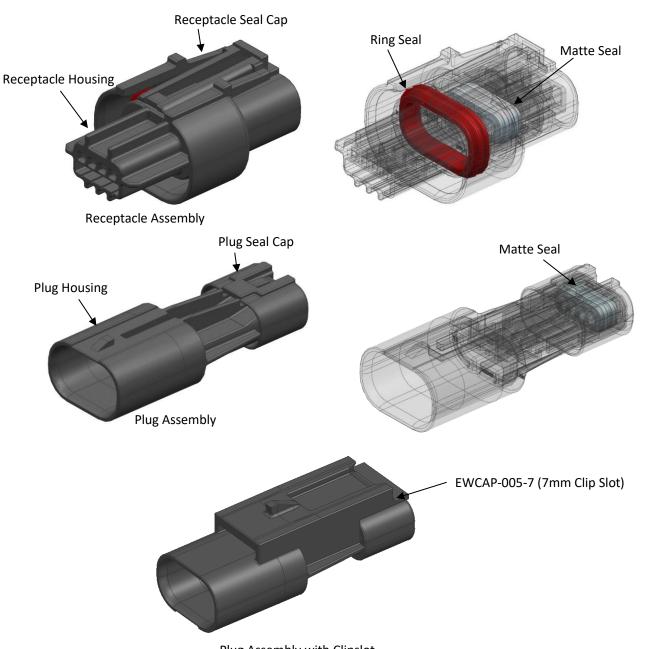


Applicator Tool Crimp Specification 22 - 24 AWG	.638083700,
	2130690500
Applicator Tool Crimp Specification 26 AWG	.213069-7600
Hand Tool Crimp Specification 22 - 24 AWG	2002180400
Hand Tool Crimp Specification 26 AWG	.223863-4700

4.0 PRODUCT DEFINITION

4.1 CONNECTOR ASSEMBLIES

(4 CKT CONNECTORS SHOWN)



Plug Assembly with Cl	ipsiot
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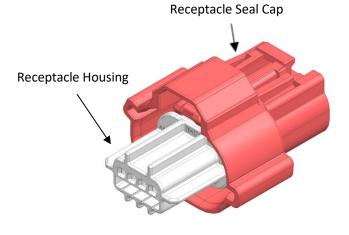
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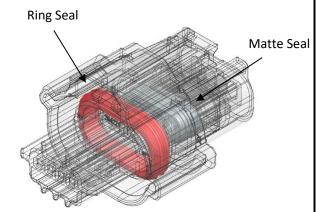
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PERCENTION

APPLICATION SPECIFICATION. SQUBA 1.8

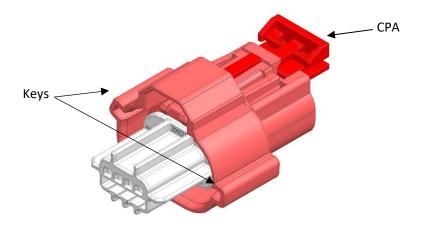
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APPLICATION SPECIFICATION

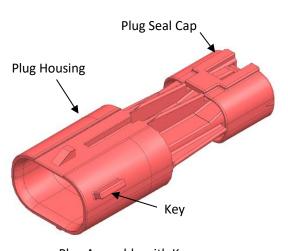


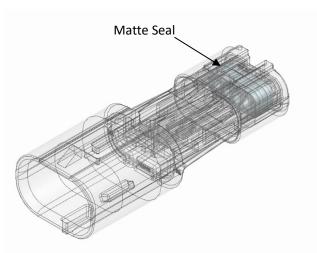


Receptacle Assembly with Key



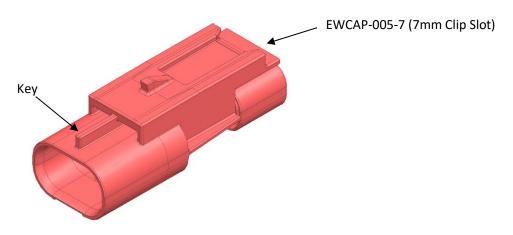
Receptacle Assembly with Key and CPA





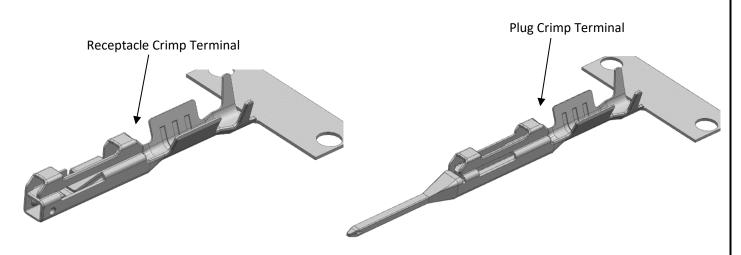
Plug Assembly with Key

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Plug Assembly with Clipslot and Key

4.2 CRIMP TERMINALS

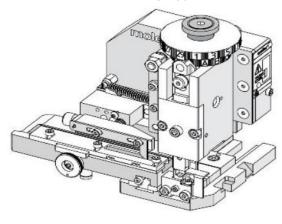


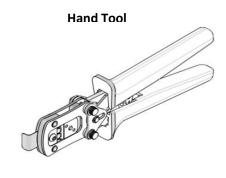
Description	Order Number	Crimp Spec Document Number
Crimp Applicator for Receptacle Terminal	638083700	638083700
Crimp Applicator for Plug Terminal	2130690500	2130690500
Crimp Hand Tool for Plug and Receptacle Terminals	2002180400	2002180400
Crimp Applicator for Plug and Receptacle Terminals 26 AWG	2130697600	2130697600
Crimp Hand Tool for Plug and Receptacle Terminals 26 AWG	2238634700	2238634700

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Crimp Applicator



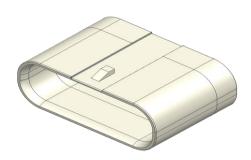


4.3 WEATHER CAPS

Plug Weather Cap



Receptacle weather cap



4.4 SEAL PLUGS

Male Seal plug



Female Seal plug



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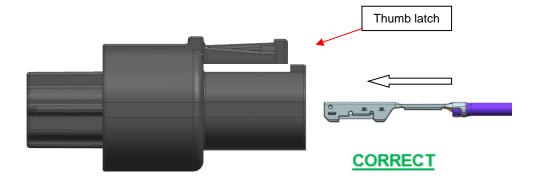


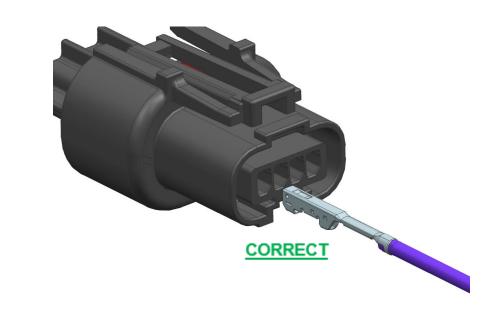
5.0 TERMINAL ORIENTATION DURING INSERTION INTO HOUSING

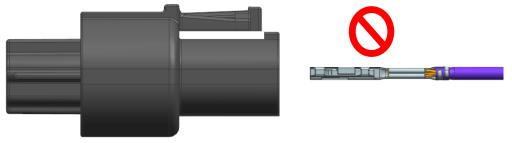
Terminals are to be inserted in the housings as shown below on sheet 8-11. Notice the orientation of the terminal body relative to the receptacle thumb latch and plug thumb latch hook. Notice the orientation of the terminal body relative to the latch hook. Do not force terminals into the housing cavity. 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 \rightarrow CLICK \rightarrow PULL method (sheet 10) during terminal insertion to ensure fully seated terminal.

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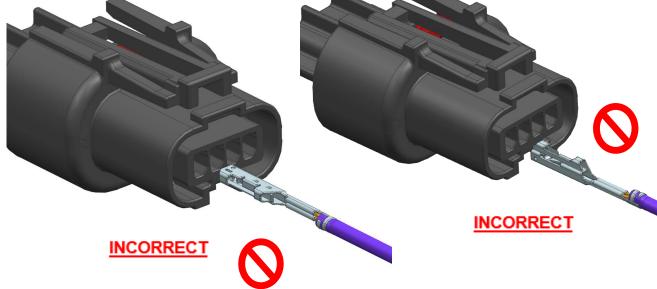
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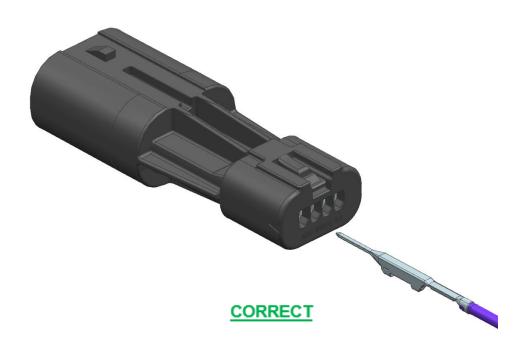
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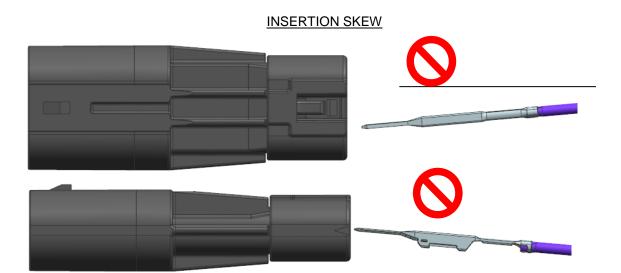




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Care must be taken while handling plug terminals. Terminal skew in any direction must be avoided while terminal insertion into plug housing.

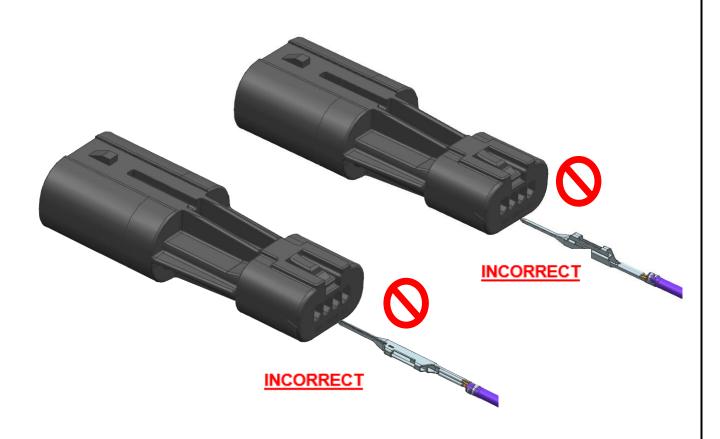
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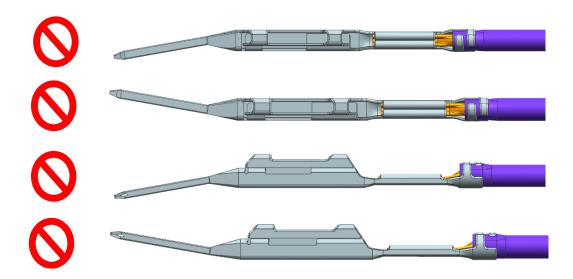


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CARE MUST BE TAKEN WHEN HANDLING THE TERMINAL PINS.
USE OR TRY TO ATTEMPT TO REWORK BENT OR DAMAGED TERMINAL PINS

DO NOT



6.0 TERMINAL REMOVAL FROM THE HOUSING

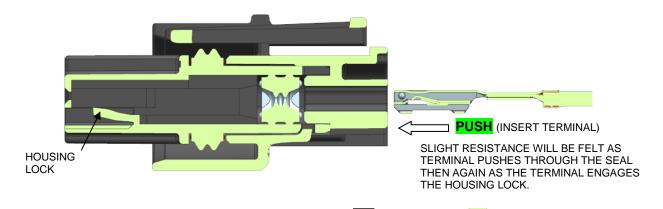
Terminals are NOT intended to be removed from housings to prevent seal damage. Be sure terminals are not damaged and are being inserted into the correct circuit before terminals are inserted.

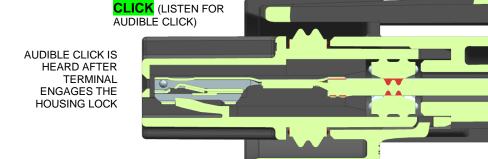
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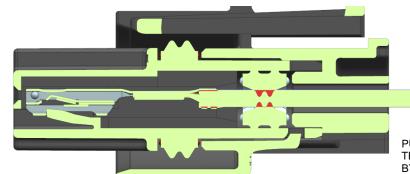


PUSH → CLICK → PULL

(APPLIES TO BOTH RECEPTACLE AND PLUG)

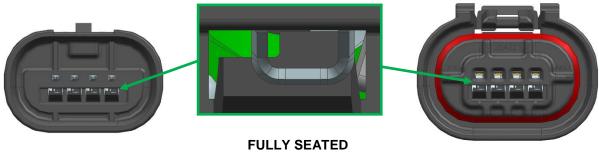








PULL GENTLY ON WIRE TO ENSURE TERMINAL IS FULLY SEATED AND SECURED BY HOUSING LOCK.



MATING SIDE VIEW

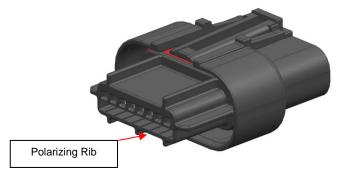
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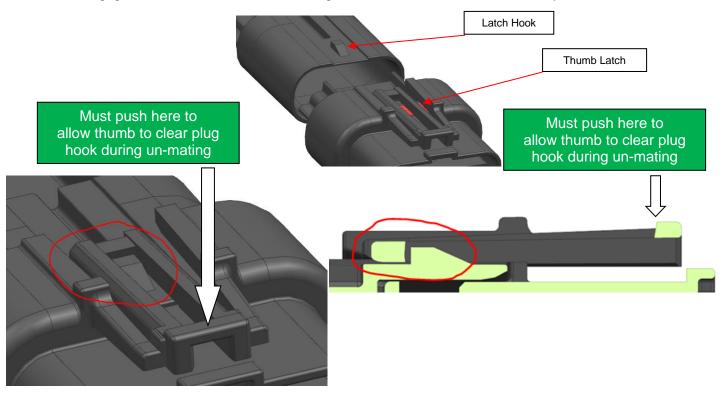
7.0 MATING AND UN-MATING

7.1 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.



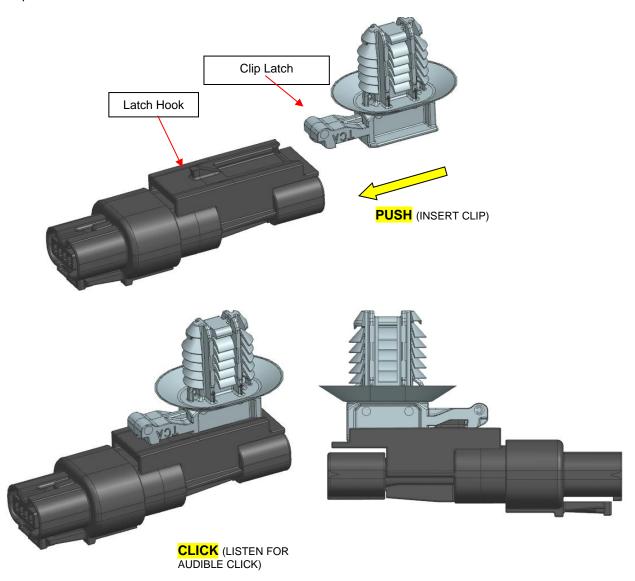
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7.2 PLUG WITH CLIP SLOT AND CLIP

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.

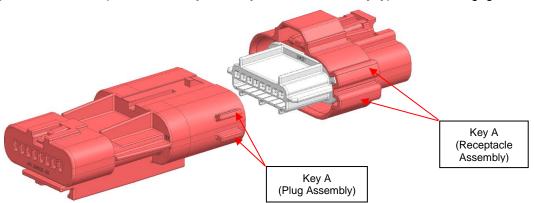


NOTE: CLIP USED IN PICTURES FOR REPRESENTATIONAL PURPOSE ONLY. MOLEX RECOMMENDS TO USE CLIPS WHICH ARE INTENTED TO BE USED WITH EWCAP- 005 7MM CLIP SLOT

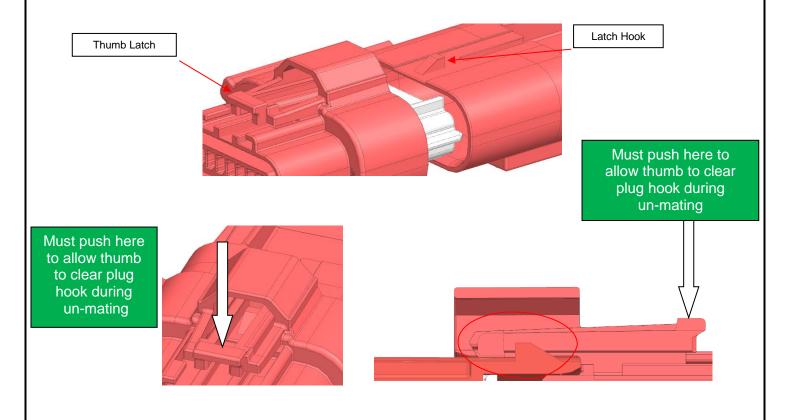
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7.3 CONNECTORS WITH KEY/COLORS

This product contains a keying feature to ensure correct orientation during mating. The Key A configuration, illustrated below, prevents improper connections. If a receptacle assembly with Key A is mated with a plug assembly of a different key type, the keying feature will block the mating. To ensure proper mating, always match corresponding key types—for example, a plug assembly with Key A will only mate with a receptacle assembly with Key A. Mismatched key types will not engage.



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.



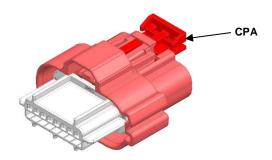
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APPLICATION SPECIFICATION

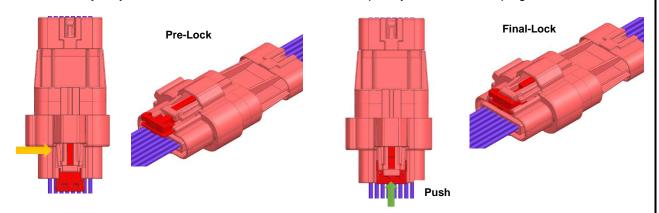
7.4 CONNECTORS WITH KEY/COLORS & CPA

This product contains CPA part which enhances mating assurance and provides secure locking. The CPA will be shipped in "pre-lock" condition along with the receptacle assembly.



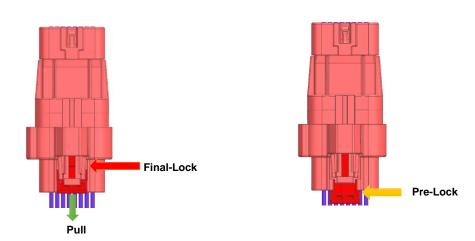
ACTIVATING THE CPA

Once the plug and receptacle are fully mated, push the CPA from "pre-lock" to the "final-lock" position until a positive engagement indicating the CPA is locked with no further movement. Please note, the CPA will move smoothly only when the connector assemblies are completely mated with the plug.



DEACTIVATING THE CPA

To operate the thumb latch or unmate the connector, the CPA must first be deactivated. Gently pull the CPA from the "final-lock" position back to "pre-lock" position with your finger. This action deactivates the CPA, allowing the user to engage the thumb latches and proceed with the unmating process.

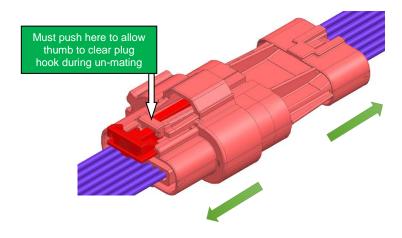


REVISION DESCRIPTION		25240			APPLICATION SPECIFICATION, SQUBA 1.8					
CHANGE NO.	825240	· · · · · · · · · · · · · · · · · · ·								
REVISED BY	SUAIFR	UAIFR DATE 2025/06/09			DOC TYPE DOC TYPE DESCRIPTION DOC PART S			SERIES		
REV APPR BY	GANESY	DATE	2025/06/12	PS		ENGINEERING SPECIFICATION WORD	000	204220		
	INITIAL RELEAS	E		CUSTON	MER	DOCUMENT NUMBER	REVISION	SHEET		
INITIAL DRWN	TGREGORI DATE 2017/12/07		GENERAL N	ΛΔRKET	2042200000-AS	C4	17 OF			
INITIAL APPR	RHODGE	RHODGE DATE 2018/02/02				2042200000-A3	C4	25		

APPLICATION SPECIFICATION

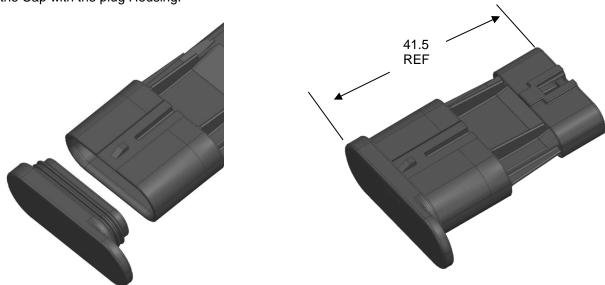
CONNECTOR UNMATING (WITH KEY/COLORS AND WITH KEY/COLORS & CPA)

To unmate the connectors, first deactivate the CPA (in case your receptacle is equipped with CPA). Grip the mated assembly firmly. Depress the thumb latch with your thumb in the below specified zone. Once the thumb latch is fully disengaged, gently pull the connector assemblies apart.



7.4 WEATHER CAPS

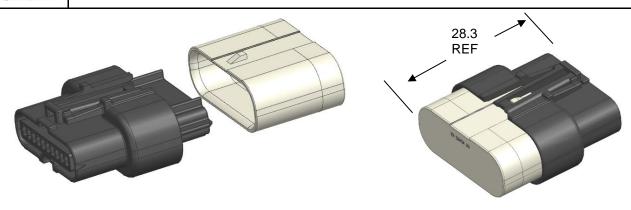
Plug Weather Caps are to be inserted in the Plug housings as shown below. Notice the orientation of the Cap with the plug Housing.



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.

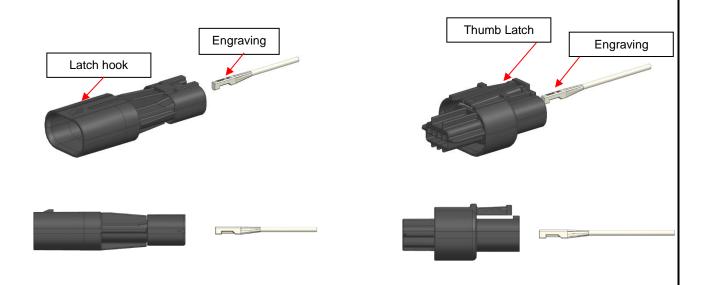
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CHANGE NO.	825240								
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7.4 SEAL PLUGS

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 seal plug 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.



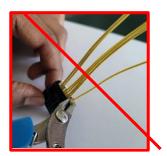
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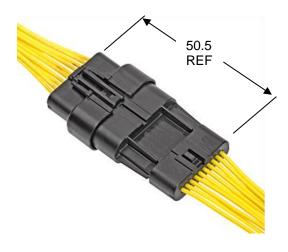


Cavity plugs can be trimmed flush to avoid wire chafing and avoid cavity plug dislocation/push through, the decision to trim is the discretion of the user. Cavity plugs must be installed, and trimmed before wires are installed.





8.0 MATED LENGTH



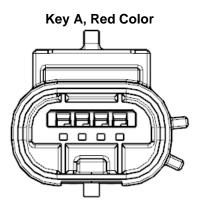
9.0 PACKAGING

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

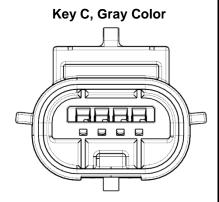
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INITIAL APPR	RHODGE	DATE	2018/02/02			2042200000-A3	L4	25			

10.0 POLARIZATOIN FEATURE – KEY/COLORS

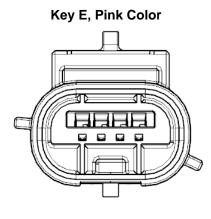
10.1 PLUG KEY CONFIGRUATIONS

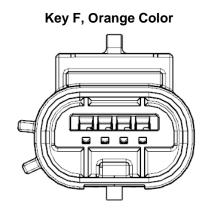


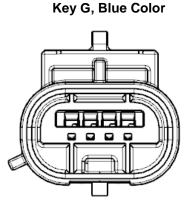
Key B, Natural Color

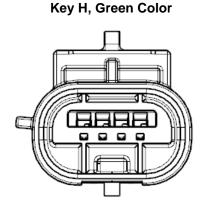


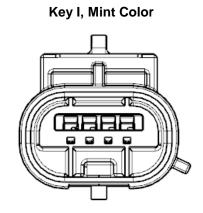
Key D, Yellow Color









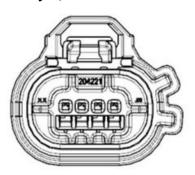


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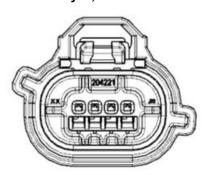
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CHANGE NO.	NGE NO. 825240								
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INITIAL APPR	RHODGE	DATE	2018/02/02	GENERAL MARKET		2042200000-AS	U4	25	

10.2 RECEPTACLE KEY CONFIGRUATIONS

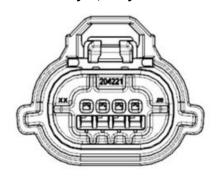
Key A, Red Color



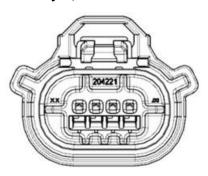
Key B, Natural Color



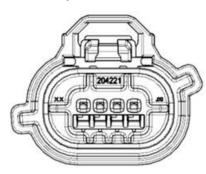
Key C, Gray Color



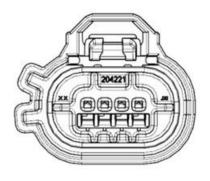
Key D, Yellow Color



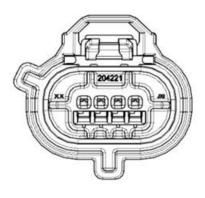
Key E, Pink Color



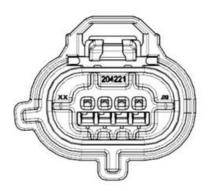
Key F, Orange Color



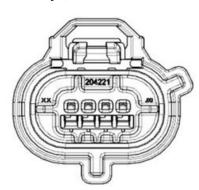
Key G, Blue Color



Key H, Green Color



Key I, Mint Color



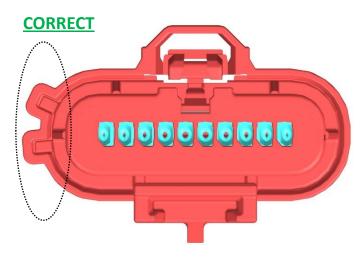
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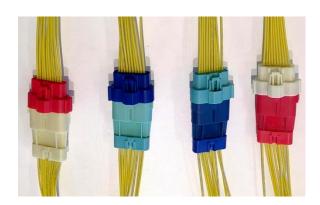
10.3 POLARIZATION FEATURE EFFECTIVENESS

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



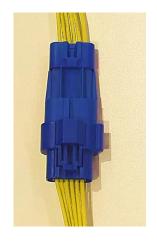


Incorrect mating: The Polarization feature resists the mating. However, with excessive force, the parts will mate, causing the housings to crack/deform. Refer Product Specification for force limits.

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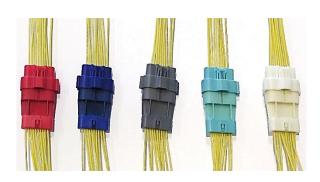
APPLICATION SPECIFICATION







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.





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

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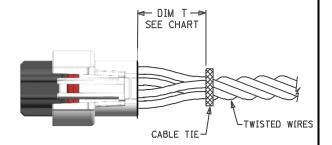


11.0 OTHER INFORMATION

11.1 CRIMP APPLICATION TOOLING

11.2 CABLE TIE AND OR WIRE TWIST LOCATION

CKT Size	Dim T Min.
2-6	50.8 mm (2.00")
8	76.2 mm (3.00")
10	101.6 mm (4.00")



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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