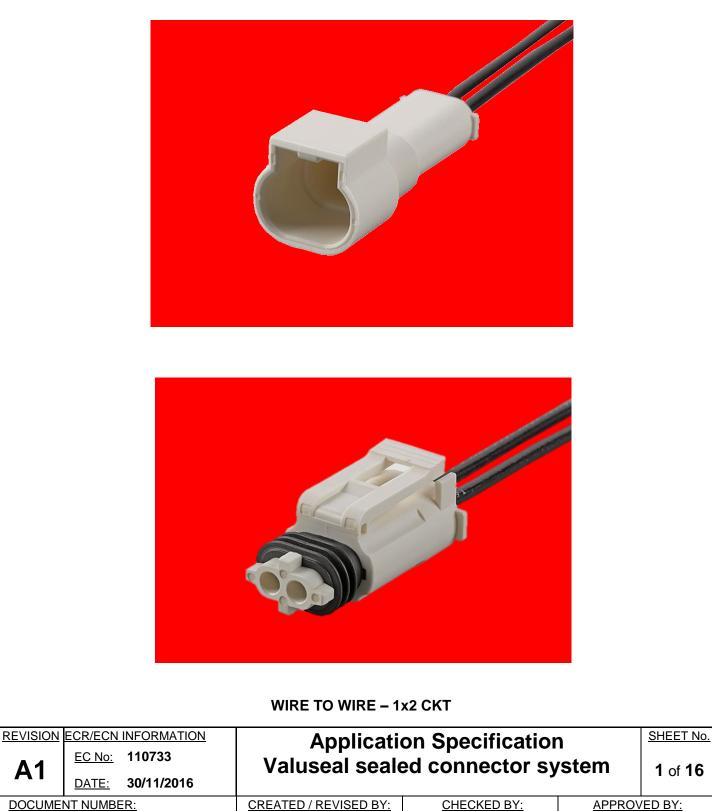


VALUSEAL SEALED CONNECTOR SYSTEM



AS-172877-0001

A1

Ishwar G

Ishwar G

KP

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SCOPE

This specification covers the requirements for the application of Valuseal wire to wire sealed connector system.

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- Section 7: Service Instructions
- Section 8: Connector/Cable Clamping
- Section 9: General application notes

Section 1: Product Introduction

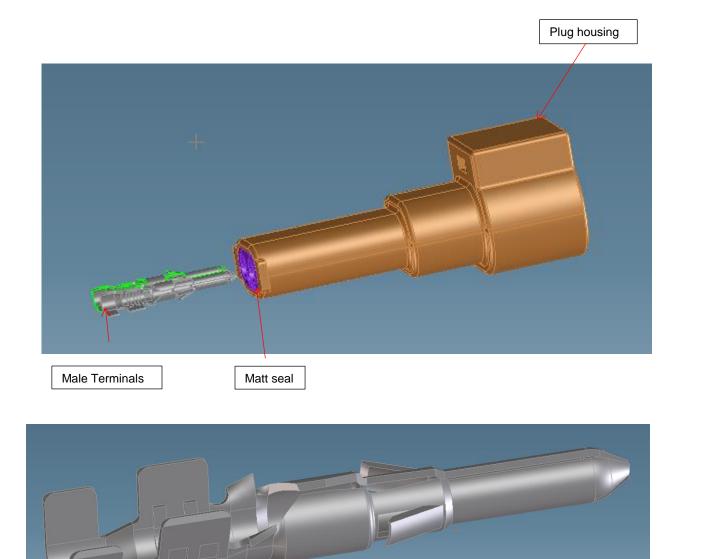
Product Description	Series number
Plug Housing with Integrated seal	172877
Receptacle Housing with Integrated seal	172878
Male crimp terminal	173041
Female crimp terminal	173042
Void plug	173061

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Section 2: Product Summary

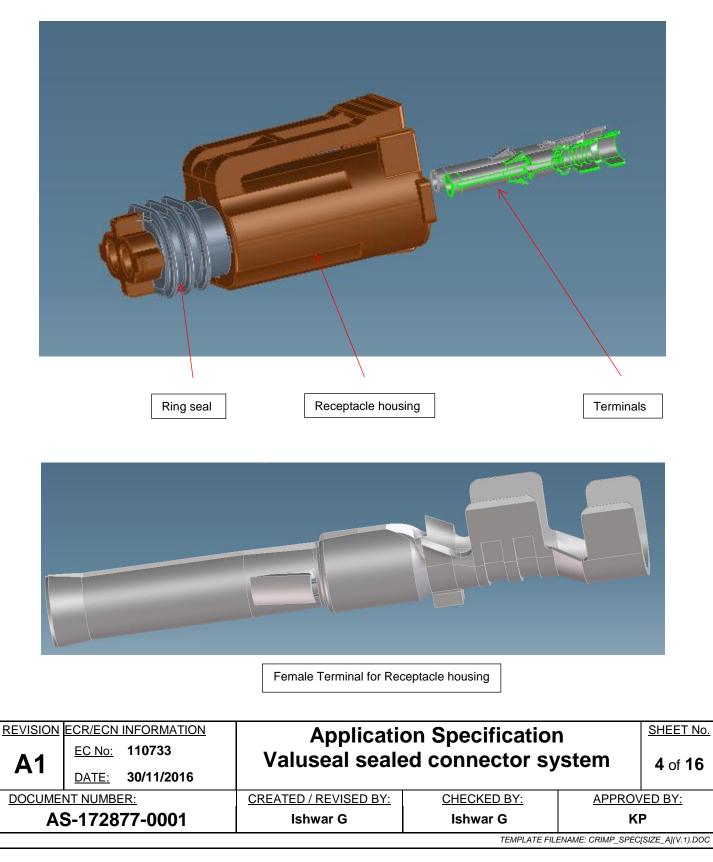
1. Plug assembly details



Male Terminal for Plug Housing **REVISION ECR/ECN INFORMATION Application Specification** SHEET No. EC No: 110733 Valuseal sealed connector system **A1** 3 of 16 30/11/2016 DATE: DOCUMENT NUMBER: CHECKED BY: APPROVED BY: CREATED / REVISED BY: AS-172877-0001 KP Ishwar G Ishwar G TEMPLATE FILENAME: CRIMP_SPEC[SIZE_A](V.1).DOC



2. Receptacle assembly details





Section 3: Plug connector Assembly

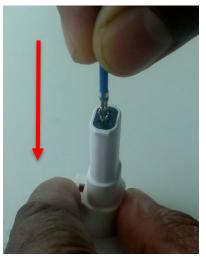
Male Terminal Insertion

1. Place the plug housing on the flat surface and hold by left hand as shown in figure 1.

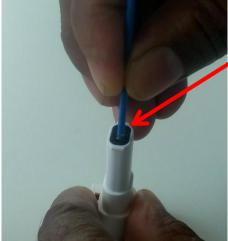


Fig 1

Hold male terminal in vertical position with right hand.
Hold the terminal at a distance of 10-15 mm from insulation crimped area as shown in fig 2.

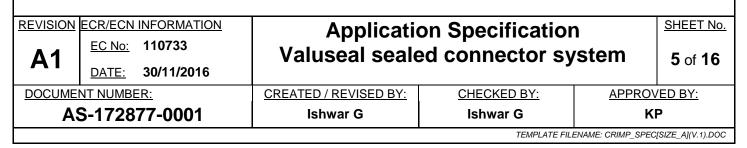






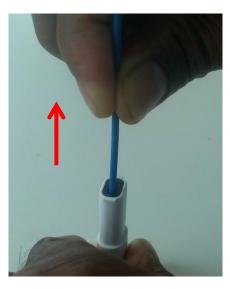
No orienation is needed during terminal assembly into housing (terminal can be inserted in 360° direction)







- 3. Insert the terminal gently into the housing as shown in fig 3. (Change the finger position after intial insertion to press the terminal further inside)
- 4. Push the terminal into the hole till the terminal reaches the dead end position (till it bottoms out) in the housing. Pull the terminal back gently to ensure that terminal is seated properly in the housing as shown in fig 4.





5. Insert terminals into both circuits and complete the insertion as shown in fig 5.





6. Reverse the assembled housing and carry out the visual inspection for terminal position, skiving etc...

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Section 4: Receptacle connector Assembly

Female Terminal Insertion

1. Place the receptacle housing on the flat surface and hold by left hand as shown in figure 6.





Hold female terminal in vertical position with right hand.
Hold the terminal at a distance of 10-15 mm from insulation crimped area per figure 7.

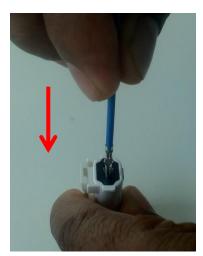




Fig 7 Fig 8					
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 Insert the terminal gently into the housing as shown figure 8.
No terminal orienation is needed to the assembly(terminal can be iserted in 360° direction) (Change the finger position after intial insertion to press the terminal further inside)

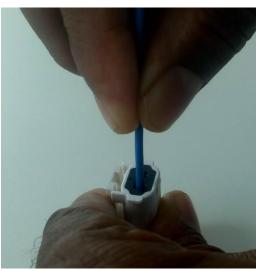


Fig 9

4. Push the terminal into the hole till the terminal reaches the dead end position in the housing as shown in figure 9. Pull the terminal back gently to ensure that terminal is seated properly in the housing as shown in figure 10.

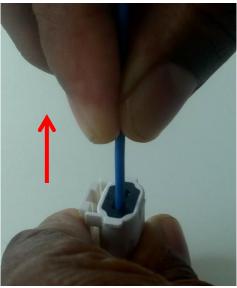
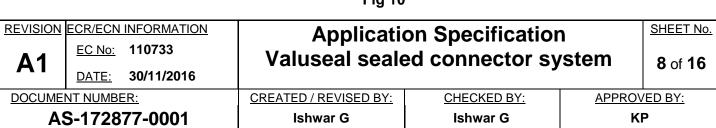


Fig 10



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5. Insert terminals into both circuits and complete the insertion as shown in fig 11.



Fig 11

6. Reverse the assembled housing and carry out the visual inspection for terminal position, skiving etc...

Section 5: Cavity plug installation

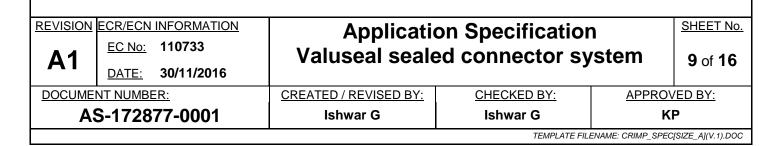
1. Place the plug/receptacle housing on the flat surface as shown in fig 12. Hold cavity plug in vertical position with right hand & align the cavity plug into the housing hole as shown in fig 13.













2. Press the cavity plug into the housing slot till the plug fits into its position.

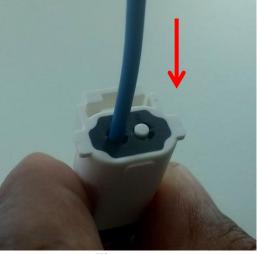
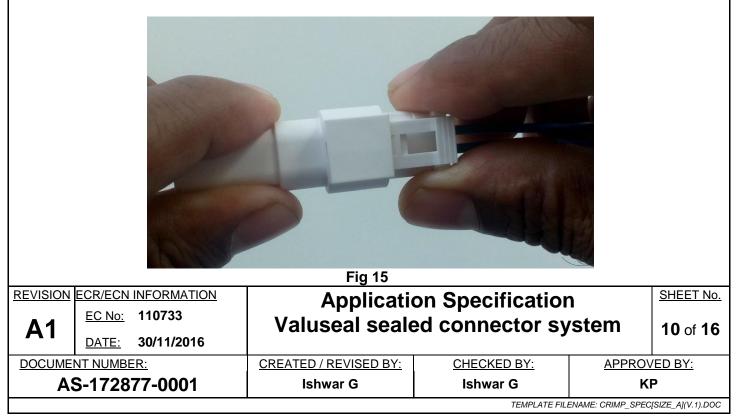


Fig 14

3. Above procedure to be followed wherever void positions are identified. Cavity plug insertion procedure is same for both plug and receptacle housing.

Section 6: WTW Connector Assembly

1. Hold the plug connector assembly and receptacle connector assembly as shown in fig 15. Align connector system latch features and begin mating process along the same axis.

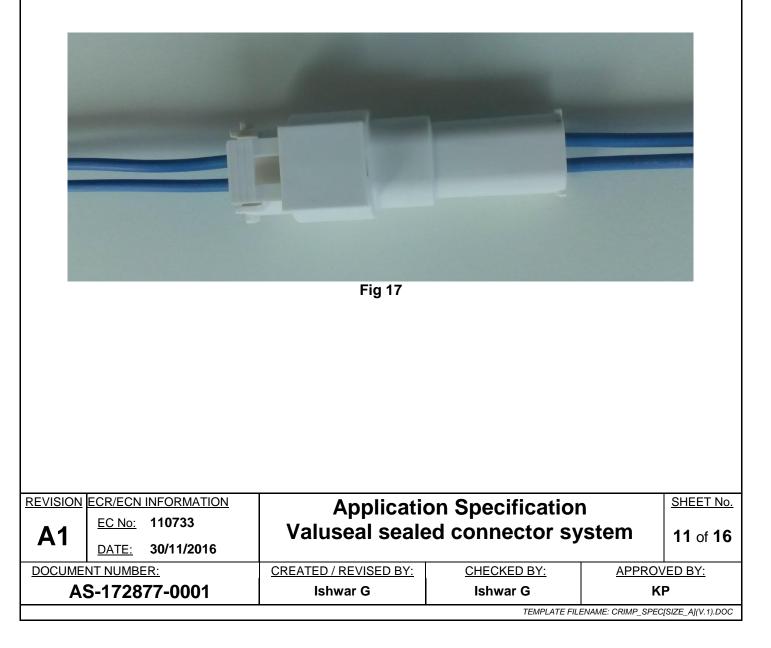




2. Press the receptacle housing latch until the latch locks (observe for "CLICK" sound)



Fig 16





Section 7: Service instructions

A. Connector unmating instructions

1. Press the latch lever on receptacle assembly to disengage the latch and pull the plug assembly as shown in fig 18 and fig 19.

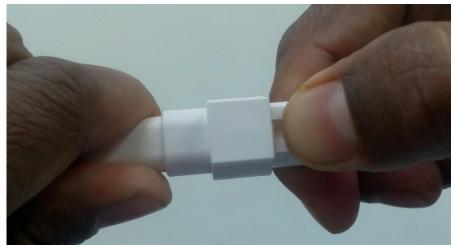






Fig 19

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B. Male Terminal removal

1. Using the extractor tool # 11030002, insert the extractor tool into the male terminal to be serviced.





2. Push extractor tool straight down gently and apply pressure to release locking tabs. This motion will release the locking tabs. Pull the terminal gently by supporting the finger at the bottom face of connector.

Pull the terminal gently until the front portion of the terminal protrudes from connector bottom face as shown in below fig 20



Fig 20

3. Extracted terminal should be removed from the housing and replace with new crimp terminal in same circuit.

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C. Female Terminal removal

1. Using the extractor tool # 11030002, insert the extractor tool into the male terminal to be serviced.



2. Push extractor tool straight down gently and apply pressure to release locking finger. This motion will release the locking finger. Pull the terminal gently by supporting the finger at the bottom face of connector. Pull the terminal gently until the front portion of the terminal protrudes from connector bottom face as shown in fig 21



3. Extracted terminal should be removed from the housing and replace with new crimp terminal in same circuit.

Fig 21

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D. Cavity/Void plug removal

- 1. Using the extractor tool # 11030002, insert the extractor tool into the cavity/void plug to be serviced.
- 2. Push extractor tool straight down gently and apply pressure to release locking steps in cavity plug. Pull the Cavity / Void plug gently by supporting the finger at the bottom face of connector. Pull the cavity plug gently until the front portion of the cavity plug protrudes from connector bottom face as shown in fig 22 & 23.



Fig 22





3. Cavity plug removal / Extraction procedure is same for both plug and receptacle housing.

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Section 8: Connector/Cable Clamping

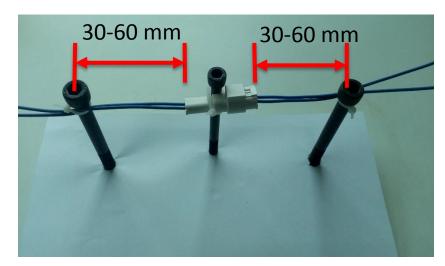


Fig 22

It is recommended to tie the cables (both side) at a distance of approximately 30-60 mm from the housing surface and cable should be straight to avoid the strain at sealing area per the fig 22.

Section 9: General application notes

Appearance:

Parts conform to class "C" requirements of cosmetic specification PS-45499-002

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