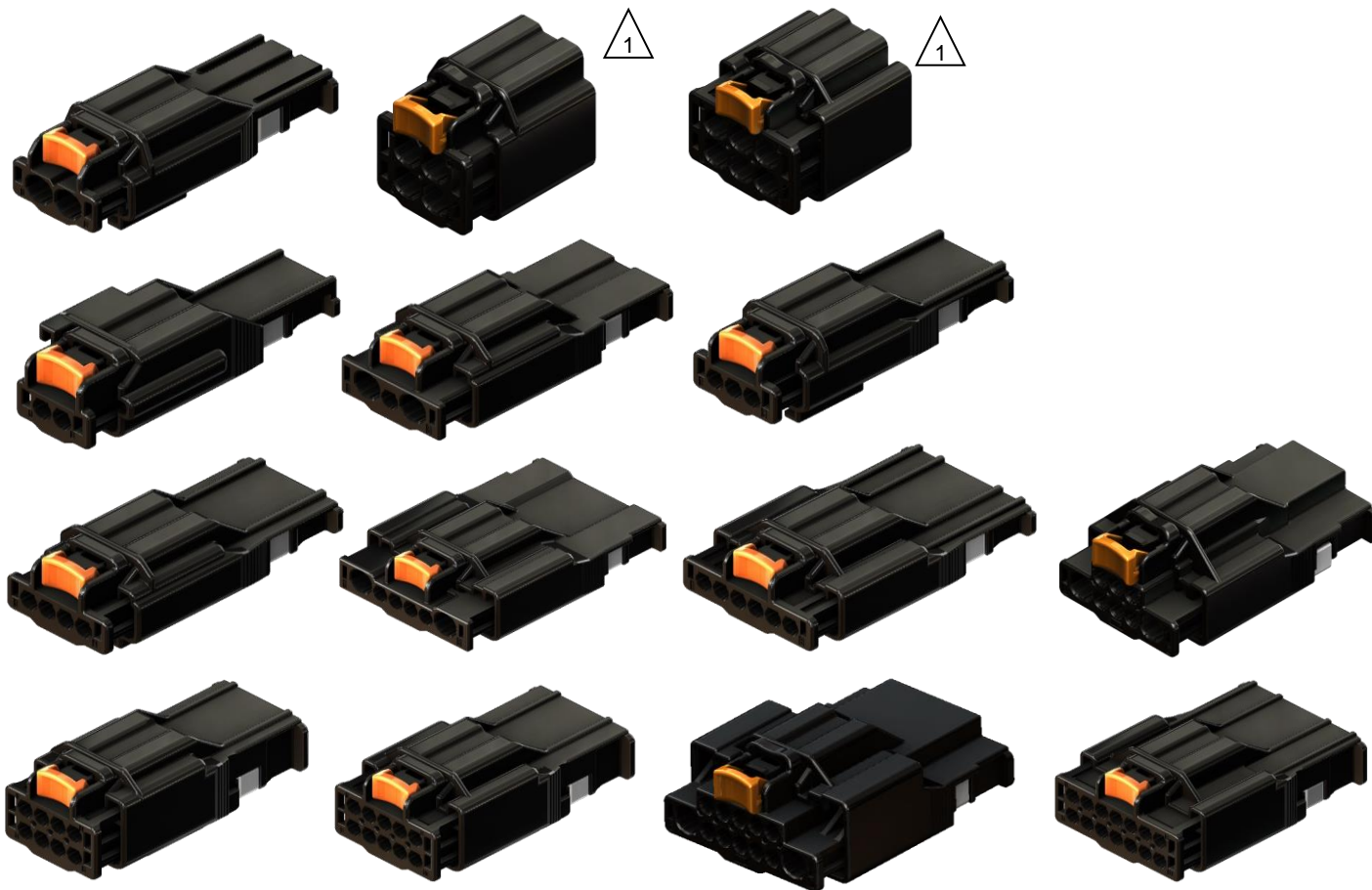




# Handling manual for 1.2 NWP SYSTEM CONNECTOR FAMILY

## Spécification de mise en oeuvre de la famille 1.2 non étanche



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Date <b>07.12.2021.</b>		Date <b>07.12.2021.</b>		Date <b>7.12.2021.</b>		Doc No. <b>YPES-15-1664E</b>	Rev. <b>3</b>
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## 1. Scope

This handling manual contains guidelines for the application of the **YAZAKI 1.2 NWP SYSTEM CONNECTOR FAMILY** (in the following text – 1.2 NWP connector).

If there are any deviations between this document and the product drawings, the content of the product drawings takes priority.

For the definition of codings and colour markings, please see product drawings as referenced in chapter 3.1 Customer drawings.

## 1. Périmètre

Ce cahier de préconisation contient les instructions de mise en œuvre des **Connecteurs de la famille 1.2 non étanche YAZAKI** (Connecteurs 1.2 non étanches dans les pages suivantes).

En cas de litige entre ce document et le plan produit, seule l'information mentionnée au plan produit fait foi.

Pour la définition des codages et des couleurs, merci de se référer aux plans d'interface mentionnés au chapitre 3.1 Plans clients.

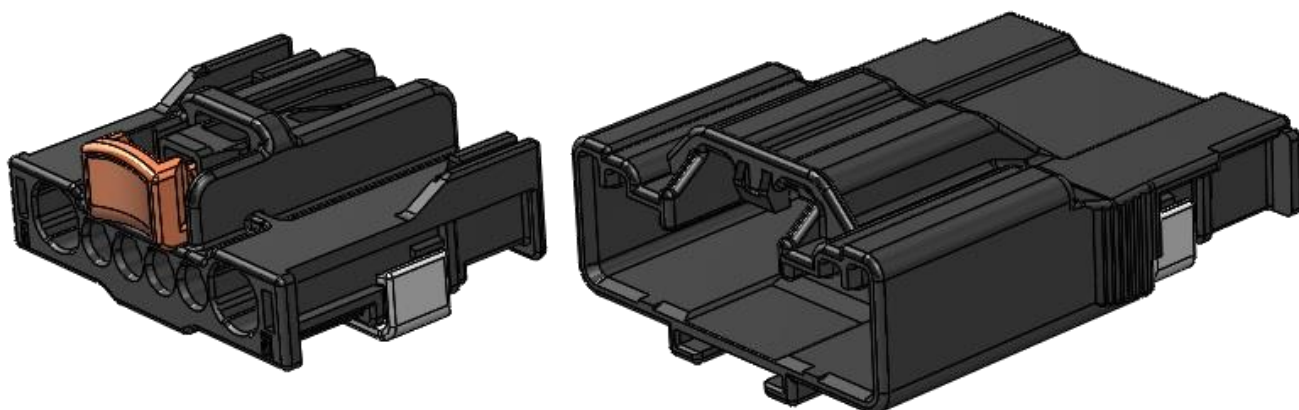


Figure 1 6P hybrid NWP female connector and male connector unmated (in pre-set position) / Porte-clips et porte languettes 6 voies hybrides désaccouplés (en position de livraison)

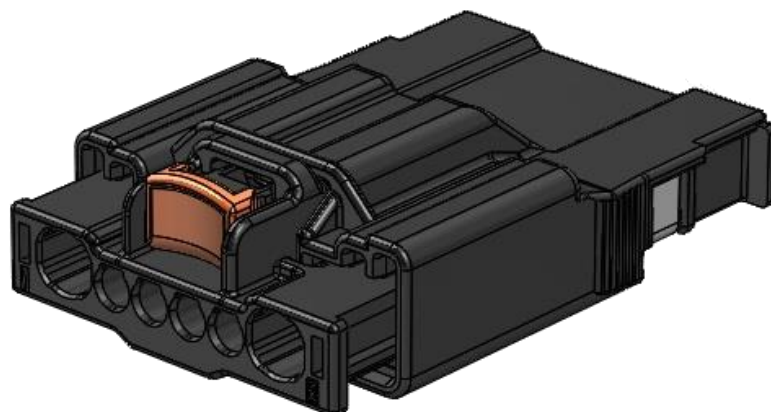


Figure 2 6P hybrid NWP connector mated / Connecteurs 6 voies hybrides accouplés

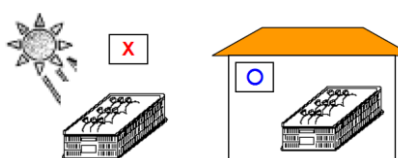
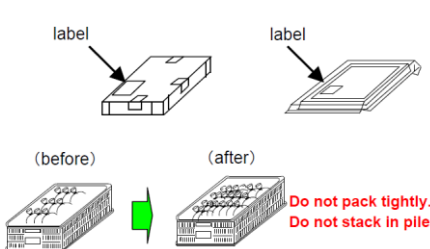
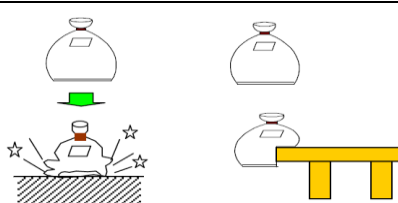
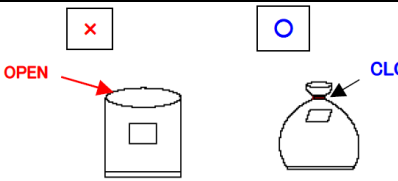
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## 2. Connector storage

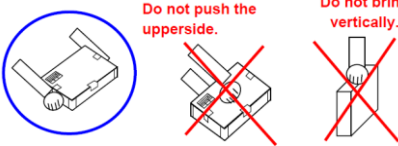
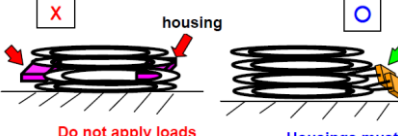
YAZAKI recommends storage temperatures within min -20 to max 60°C with 10% rel. humidity / max 40°C with 75% rel. humidity and usage of the product within 12 months after production date. This recommendation does not influence any warranty standards.

## 2. Stockage du connecteur

YAZAKI recommande une température de stockage comprise entre -20 et 60°C maximum avec une humidité de 10%, ou jusqu'à 40°C maximum avec une humidité de 75% et l'utilisation du produit dans les 12 mois suivant la date de production. Cette recommandation n'influence pas les standards de garantie.

Control process / Process de contrôle	Illustration	Influence on quality / Influence sur la qualité
<p>Please store plastic and carton cases containing housing at room temperature avoiding moisture and direct sunlight. / <i>Merci de stocker les cartons et les sacs plastiques contenant les connecteurs à température ambiante en évitant l'humidité et la lumière directe du soleil.</i></p> <p>Please equalize housing temperature with room temperature. / <i>Merci d'équilibrer la température ambiante et la température des connecteurs.</i></p>		<p>There are risks of breakage and discoloration due to housing material degradation. / <i>Il y a des risques de casse ou de décoloration due à la dégradation de la matière des connecteurs.</i></p> <p>There are risks of damage on lance, hinge and locking or other problems. / <i>Il y a des risques d'endommagement des lances, du verrouillage ou d'autres problèmes.</i></p>
<p>Please make sure the label of the packages is clearly visible during storage. / <i>S'assurer que l'étiquette du carton soit toujours visible lors du stockage.</i></p> <p>Please do not apply pressure to housings in bag packages during storage. / <i>Merci de ne pas appliquer de pression sur les pièces dans les sacs lors du stockage.</i></p> <p>Please do not replace plastic cases and carton boxes with storage boxes. / <i>Merci de ne pas remplacer les boîtiers en plastique et boîtes en carton par des boîtes de rangement.</i></p>		<p>There are risks of improper position of child parts, deformation or other problems. / <i>Il y a des risques de mauvaise position des pièces de l'assemblage, des déformations ou d'autres problèmes.</i></p>
<p>When handling housings, please pay attention not to damage the products. / <i>Lors de la manipulation des connecteurs, merci de faire attention de ne pas les endommager.</i></p>		<p>There are risks of deformation, breakage, improper position of child parts or loss of parts. / <i>Il y a des risques de déformation, de casse, de mauvaise position des pièces ou la perte de pièces.</i></p>
<p>Please cover the product or store it in a plastic bag to protect it from dust. / <i>Merci de couvrir le produit ou de le stocker dans un sac plastique afin de le protéger de la poussière.</i></p>		<p>There is a risk of contact defect due to adherence of dust. / <i>Il y a un risque de défaut de contact dû à la présence de poussière.</i></p>

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<p>When carrying housings, please hold the underside of the container with both hands. Do not put the box vertically and do not push the upper side of the box. / <i>Lors du transport des connecteurs, merci de tenir le dessous avec les deux mains. Ne pas tenir le carton verticalement et ne pas appuyer sur le dessus.</i></p>	 <p>Do not push the upside.</p> <p>Do not bring vertically.</p>	<p>There are risks of deformation, damage or loss of parts. / <i>Il y a des risques de déformation ou d'endommagement des pièces.</i></p>
<p>Please store your products without applying loads on the housings. / <i>Merci de stocker les pièces sans appliquer d'effort dessus.</i></p>	 <p>housing</p> <p>Do not apply loads on housings.</p> <p>Housings must be free from loads.</p>	<p>There are risks of deformation due to the pressure of the weight and risks of breakage due to shock. / <i>Il y a des risques de déformation dus à la pression et des risques de casse dus aux chocs.</i></p>

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## 2.1. Packaging specifications

## 2.1. Conditionnement

Table 1 Packaging information / Information sur le conditionnement

Yaz part no.	PSA part no. <sup>1</sup>	No. of parts/ Box	Box size LxWxH (mm)	Weight (kg)
7289-7858-30	9817957180	2000	390x300x380	6.9
7289-7812-30	9817860280	2500	390x300x380	6.5
7289-7822-30	9817958480	2500	390x300x380	7.5
7289-7837-30	9817966980	2000	390x300x380	7.0
7289-7770-30	9817888280	2000	390x300x380	8.5
7289-7785-30	9817887780	2000	390x300x380	10.0
7289-7760-30	9817874180	1500	390x300x380	9.0
7289-7802-30	9817971880	1200	390x300x380	8.7
7288-7873-30	9817957780	1500	390x300x380	8.0
7288-7817-30	9817860580	1500	390x300x380	6.6
7289-7847-30	TBD	1200	390x300x380	10.5
7288-7853-30	TBD	1500	390x300x380	9.9
7288-7832-30	9817958580	1500	390x300x380	7.5
7288-7842-30	9817968480	1500	390x300x380	8.2
7289-7863-30	TBD	2000	390x300x380	10.2
7288-7868-30	TBD	1000	390x300x380	9.5
7288-7775-30	9817888380	1500	390x300x380	10.4
7289-7904-30	9818502180	1500	390x300x380	9.5
7288-7910-30	9818502580	1000	390x300x380	10.3
7288-7797-30	9817888080	1000	390x300x380	8.5
7288-7765-30	9817878780	1000	390x300x380	9.1
7288-7807-30	9817972180	1000	390x300x380	10.7
7288-9365-30	9824245880	1200	390x300x380	9.0
7289-9370-30	9824230680	1200	390x300x380	9.0
7298-1175-30	9829232080	TBD	TBD	TBD
7298-1170-30	9828043580	TBD	TBD	TBD

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Label with:

- Yazaki part number
- Quantity
- Order No/ Carton No

Etiquette avec:

- Référence Yazaki
- Quantité
- Numéro de commande / Numéro de carton

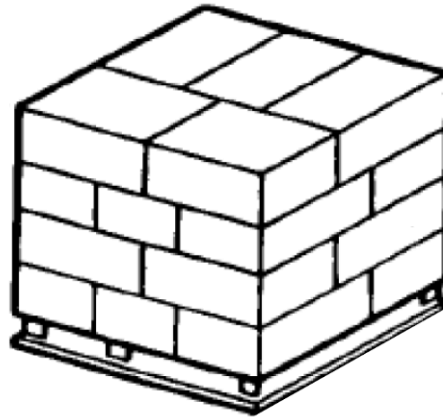


Figure 3 Cardboard boxes (32 pcs) stacked on a pallet (1200X800X1600) / Cartons (32 pcs) empilés sur une palette (1200X800X1600)

To prevent the risk of contact defect due to adherence of dust as well as possible sealing defect, cover the product with plastic foil.

Maximum 2 pallets can be stacked on each other.

*Pour éviter le risque de défaut de contact en raison de l'adhérence de poussière ou d'un possible défaut d'étanchéité, couvrir le produit avec une feuille de plastique.*

*2 palettes au maximum peuvent être empilées l'une sur l'autre.*

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


## 2.2. Delivery condition

- Assembled 1.2 NWP male connector with TPA in pre-set position (open position);
- Assembled 1.2 NWP female connector with TPA in pre-set position and CPA in pre-set position.






## 2.2. Conditions de livraison

- Porte-languettes assemblé avec double verrouillage latéral en position ouvert;
- Porte-clips assemblé avec double verrouillage latéral en position ouvert et CPA en position ouvert.

 If TPA is not in pre-set (open) position, please refer to the 5.4.1. TPA removal.

Si le DV latéral n'est pas en position ouvert, se référer au chapitre 5.4.1 Ouverture du DV latéral.

Table 2 Subassembly part numbers (1/4) / Références des assemblages

Conn.	PSA part no. 	YAZ part no.	Name	Material	Color
2P 1.2	9817860280	7289-7812-30	2P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9825325380	7289-7813-60	2P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9825325480	7289-7814-90	2P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9825325580	7289-7815-80	2P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9825325780	7289-7811-20	2P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817860580	7288-7817-30	2P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9825399080	7288-7818-60	2P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9825402280	7288-7819-90	2P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9825402780	7288-7820-80	2P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9825402980	7288-7816-20	2P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
2P 2.8	9817957180	7289-7858-30	2P 2.8 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9831808880 	7289-7859-60	2P 2.8 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9831808980 	7289-7860-90	2P 2.8 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9831809090 	7289-7861-80	2P 2.8 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9831809180 	7289-7857-20	2P 2.8 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817957780	7288-7873-30	2P 2.8 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9833688980	7288-7874-60	2P 2.8 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9833689080	7288-7875-90	2P 2.8 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9833689180	7288-7876-80	2P 2.8 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9833689280	7288-7872-20	2P 2.8 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
3P	9817958480	7289-7822-30	3P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9831389180	7289-7823-60	3P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9831388880	7289-7824-90	3P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9831388980	7289-7825-80	3P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9831389080	7289-7821-20	3P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817958580	7288-7832-30	3P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9831787780	7288-7833-60	3P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9831787880	7288-7834-90	3P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9831787980	7288-7835-80	3P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9831788080	7288-7831-20	3P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple

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Table 3 Subassembly part numbers (2/4)/ Références des assemblages

Conn.	PSA part no. <sup>△1</sup>	YAZ part no.	Name	Material	Color
3P HYB	9817958780	7289-7847-30	3P 1.2 HYB NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	TBD	7289-7848-60	3P 1.2 HYB NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	TBD	7289-7849-90	3P 1.2 HYB NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	TBD	7289-7850-80	3P 1.2 HYB NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	TBD	7289-7846-20	3P 1.2 HYB NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817958880	7288-7853-30	3P 1.2 HYB NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	TBD	7288-7854-60	3P 1.2 HYB NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	TBD	7288-7855-90	3P 1.2 HYB NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	TBD	7288-7856-80	3P 1.2 HYB NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	TBD	7288-7852-20	3P 1.2 HYB NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
4P	9817966980	7289-7837-30	4P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9821894780	7289-7838-60	4P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9821894980	7289-7839-90	4P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9821895080	7289-7840-80	4P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9821895180	7289-7836-20	4P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817968480	7288-7842-30	4P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9821918880	7288-7843-60	4P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9821918980	7288-7844-90	4P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9821919080	7288-7845-80 <sup>△2</sup>	4P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9821919180	7288-7841-20	4P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
4P 2.8 <sup>△1</sup>	9829232080	7298-1175-30	4P 2.8 NWP sys. Conn. (F) RMF	PBT-(GF+MD)17	Black
	9833435680	7298-1176-60	4P 2.8 NWP sys. Conn. (F) RMF B	PBT-(GF+MD)17	Green
	9833435780	7298-1177-90	4P 2.8 NWP sys. Conn. (F) RMF C	PBT-(GF+MD)17	Blue
	9833435880	7298-1178-80	4P 2.8 NWP sys. Conn. (F) RMF D	PBT-(GF+MD)17	Brown
	9833435980	7298-1179-20	4P 2.8 NWP sys. Conn. (F) RMF 0	PBT-(GF+MD)17	Purple
6P	9817888280	7289-7770-30	6P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9821451880	7289-7771-60	6P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9821451980	7289-7772-90	6P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9821452180	7289-7773-80	6P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9821452280	7289-7769-20	6P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817888380	7288-7775-30	6P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9821452380	7288-7776-60	6P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9821452480	7288-7777-90	6P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9821452580	7288-7778-80	6P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9821452680	7288-7774-20	6P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple



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Table 4 Subassembly part numbers (3/4)/ Références des assemblages

Conn.	PSA part no. <sup>△1</sup>	YAZ part no.	Name	Material	Color
6P 2.8 <sup>△1</sup>	9828043580	7298-1170-30	6P 2.8 NWP sys. Conn. (F) RMF	PBT-(GF+MD)17	Black
	9833566780	7298-1171-60	6P 2.8 NWP sys. Conn. (F) RMF B	PBT-(GF+MD)17	Green
	9833566880	7298-1172-90	6P 2.8 NWP sys. Conn. (F) RMF C	PBT-(GF+MD)17	Blue
	9833566980	7298-1173-80	6P 2.8 NWP sys. Conn. (F) RMF D	PBT-(GF+MD)17	Brown
	9833567080	7298-1174-20	6P 2.8 NWP sys. Conn. (F) RMF 0	PBT-(GF+MD)17	Purple
6P HYB	TBD	7289-7863-30	6P 1.2 HYB NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	TBD	7289-7862-60	6P 1.2 HYB NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	TBD	7289-7864-90	6P 1.2 HYB NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	TBD	7289-7865-80	6P 1.2 HYB NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	TBD	7289-7866-20	6P 1.2 HYB NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	TBD	7288-7868-30	6P 1.2 HYB NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	TBD	7288-7869-60	6P 1.2 HYB NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	TBD	7288-7870-90	6P 1.2 HYB NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	TBD	7288-7871-80	6P 1.2 HYB NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	TBD	7288-7867-20	6P 1.2 HYB NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
8P	9817887780	7289-7785-30	8P 1.2 HYB NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9821473080	7289-7786-60	8P 1.2 HYB NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9821473180	7289-7787-90	8P 1.2 HYB NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9821473280	7289-7788-80	8P 1.2 HYB NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9821473380	7289-7784-20	8P 1.2 HYB NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817888080	7288-7797-30	8P 1.2 HYB NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9821473480	7288-7798-60	8P 1.2 HYB NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9821473880	7288-7799-90 <sup>△2</sup>	8P 1.2 HYB NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9821474280	7288-7800-80	8P 1.2 HYB NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9821474680	7288-7796-20	8P 1.2 HYB NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
8P HYB	9818502580	7289-7904-30	8P 1.2 HYB NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9824301680	7289-7905-60	8P 1.2 HYB NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9824301880	7289-7906-90	8P 1.2 HYB NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9824302080	7289-7907-80	8P 1.2 HYB NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9824302680	7289-7908-20	8P 1.2 HYB NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9818502180	7288-7910-30	8P 1.2 HYB NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9824292280	7288-7911-60	8P 1.2 HYB NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9824292180	7288-7912-90	8P 1.2 HYB NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9824291780	7288-7913-80	8P 1.2 HYB NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9824292380	7288-7909-20	8P 1.2 HYB NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple

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Table 5 Subassembly part numbers (4/4)/ Références des assemblages

Conn.	PSA part no. 	YAZ part no.	Name	Material	Color
10P	9817874180	7289-7760-30	10P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9821515780	7289-7761-60	10P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9821515880	7289-7762-90	10P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9819931980	7289-7763-80	10P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9821515980	7289-7759-20	10P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817878780	7288-7765-30	10P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9821516180	7288-7766-60	10P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9821519180	7288-7767-90	10P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9819931880	7288-7768-80	10P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9821519380	7288-7764-20	10P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
12P HYB 	9824230680	7289-9370-30	12P 1.2 HYB NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9830069580	7289-9371-60	12P 1.2 HYB NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9830069680	7289-9372-90	12P 1.2 HYB NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9830069780	7289-9373-80	12P 1.2 HYB NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9830069880	7289-9369-20	12P 1.2 HYB NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9824245880	7288-9365-30	12P 1.2 HYB NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9830135780	7288-9366-60	12P 1.2 HYB NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9830136180	7288-9367-90	12P 1.2 HYB NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9830136280	7288-9368-80	12P 1.2 HYB NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9830136480	7288-9364-20	12P 1.2 HYB NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple
14P	9817971880	7289-7802-30	14P 1.2 NWP sys. conn. (F)	PBT-(GF+MD)17	Black
	9823066380	7289-7803-60	14P 1.2 NWP sys. conn. (F) B	PBT-(GF+MD)17	Green
	9823066680	7289-7804-90	14P 1.2 NWP sys. conn. (F) C	PBT-(GF+MD)17	Blue
	9823066880	7289-7805-80	14P 1.2 NWP sys. conn. (F) D	PBT-(GF+MD)17	Brown
	9823066980	7289-7801-20	14P 1.2 NWP sys. conn. (F) 0	PBT-(GF+MD)17	Purple
	9817972180	7288-7807-30	14P 1.2 NWP sys. conn. (M)	PBT-(GF+MD)17	Black
	9824610280	7288-7808-60	14P 1.2 NWP sys. conn. (M) B	PBT-(GF+MD)17	Green
	9824610380	7288-7809-90	14P 1.2 NWP sys. conn. (M) C	PBT-(GF+MD)17	Blue
	9824610480	7288-7810-80	14P 1.2 NWP sys. conn. (M) D	PBT-(GF+MD)17	Brown
	9824610780	7288-7806-20	14P 1.2 NWP sys. conn. (M) 0	PBT-(GF+MD)17	Purple

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**1** Table 6 Terminal information / Information sur les contacts

Supplier name	PSA part no.	YAZ part no.	Size	Gender	Terminal name	
Aptiv <b>2</b>	9823055880	7196-1865-02 <b>2</b>	1.2	F	OCS	
	9823055980	7196-1210-02 <b>2</b>		F	OCS	
	9823056080	7196-1209-02 <b>2</b>		F	OCS	
	9823056180	7196-1251-02 <b>2</b>		F	OCS	
	9823057680	7195-1645-02 <b>2</b>		M	OCS	
	9823057980	7195-1147-02 <b>2</b>		M	OCS	
	9823058080	7195-1146-02 <b>2</b>		M	OCS	
	9823058180	7195-1337-02 <b>2</b>		M	OCS	
	Aptiv <b>2</b>	9813212280	7216-7656-02 <b>2</b>	2.8	F	CTS
		9813212380	7216-7657-02 <b>2</b>		F	CTS
		9813212480	7216-7655-02 <b>2</b>		F	CTS
		9813212580	7296-0563-02 <b>2</b>		F	CTS
		9813216080	7114-6562-02 <b>2</b>		M	DCS2
		9813216180	7114-4289-02 <b>2</b>		M	DCS2
		9813216280	7114-4586-02 <b>2</b>		M	DCS2
		9813216380	7213-2874-02 <b>2</b>		M	DCS2
Tyco <b>2</b>	9835666680 <b>2</b>	7116-4155-02 <b>2</b>	2.8	F	MCP*	
	9835666880 <b>2</b>	7116-4157-02 <b>2</b>		F	MCP*	
	9835667080 <b>2</b>	7116-4156-02 <b>2</b>		F	MCP*	
	9835667280 <b>2</b>	7116-4158-02 <b>2</b>		F	MCP*	

*\*2.8 MCP terminals are used only for 4P 2.8 and 6P 2.8 RMF connectors / Les clips MCP 2.8 sont uniquement utilisés par les porte-clips 4 voies et 6 voies 2.8*

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### 2.3. Compatible clip

Panel lock, PSA interface reference 9615326199 – F (Figure 4), on male 1.2 NWP connectors is compatible with a PSA clip, functional reference 9808775480 (Figure 5).

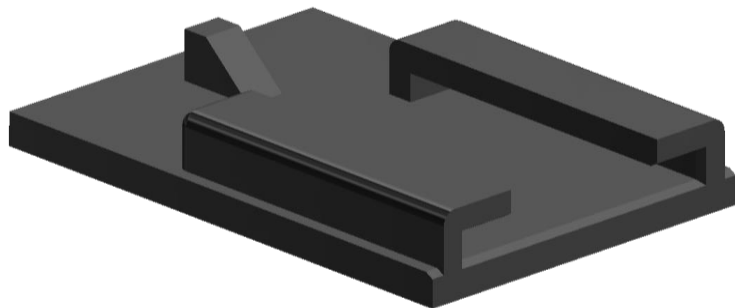


Figure 4 Panel lock / Support agrafe

### 2.3. Agrafe compatible

Le support agrafe, référence PSA de l'interface 9615326199 – F (Figure 4), des porte-languettes est compatible de l'agrafe PSA, dont la référence fonctionnelle est 9808775480 (Figure 5).

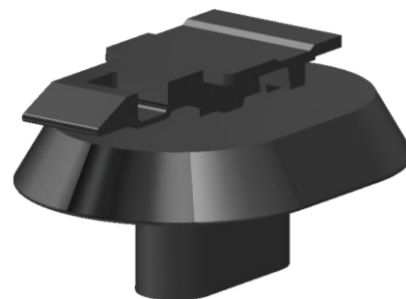


Figure 5 Clip / Agrafe

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### 3. Referenced documents

#### 3.1. Customer drawings


The dimensions and materials are shown on the drawings:

### 3. Documents de référence

#### 3.1. Plans client

Les dimensions et les matières sont mentionnées dans les plans:

 Table 7 Customer drawings list / Liste des plans clients

2P 1.2	7288-7817-30:PJ; 7289-7812-30:PJ
2P 2.8	7288-7873-30:PJ; 7289-7858-30:PJ
3P HYB	7288-7853-30:PJ; 7289-7847-30:PJ
3P	7288-7832-30:PJ; 7289-7822-30:PJ
4P	7288-7842-30:PJ; 7289-7837-30:PJ
4P 2.8	7298-1175-30:PJ 
6P	7288-7775-30:PJ; 7289-7770-30:PJ
6P 2.8	7298-1170-30:PJ 
6P HYB	7288-7868-30:PJ; 7289-7863-30:PJ
8P	7288-7797-30:PJ; 7289-7785-30:PJ
8P HYB	7288-7910-30:PJ; 7289-7904-30:PJ
10P	7288-7765-30:PJ; 7289-7760-30:PJ
12P HYB	7288-9365-30:PJ; 7289-9370-30:PJ 
14P	7288-7807-30:PJ; 7289-7802-30:PJ

#### 3.2. Product standard

Product standard YPES-TBD defines performance, tests and quality requirements of the 1.2 NWP connector.

#### 3.2. Spécification produit

La spécification produit YPES-XXX définit les performances, les essais et les exigences qualité des connecteurs de la famille 1.2.

#### 3.3. Terminal documents

1.2 CB SYS M compatible terminals are applicable for male 1.2 NWP connectors. 1.2 CB SYS F compatible terminals are applicable for female 1.2 NWP connectors.

#### 3.3. Informations relatives aux contacts

Les languettes 1.2 CB sont compatibles des porte-languettes de la famille. Les clips 1.2 CB sont compatibles des porte-clips de la famille.

DCS 2.8 male terminals are applicable for male 2.8 NWP connectors.

Les languettes DCS 2.8 sont compatibles des porte-languettes 2.8 de la famille.

CTS 2.8 female terminals are applicable for female 2.8 NWP connectors.

Les clips CTS 2.8 sont compatibles des porte-clips 2.8 de la famille.

MCP 2.8 female terminals are applicable only for 4P 2.8 and 6P 2.8 RMF connectors.

Les clips MCP 2.8 sont uniquement utilisés par les porte-clips 4 voies et 6 voies 2.8.

All data about applicable terminals is given in the referenced documents for the terminals, which are released by terminal manufacturer.

Toutes les informations concernant les contacts sont données dans les documents de référence, disponibles auprès des fournisseurs de contacts.

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### 3.4. Removal tools

#### 3.4.1. TPA removal tool

TPA removal tool can be any flat head screwdriver with blade width smaller than 2.0mm and maximum thickness of 0.5mm.

#### 3.4.2. Terminal removal tool

##### 3.4.2.1. 1.2 terminal removal tool

1.2 terminal removal tool No. ZDD-15-0045 can be used for both male and female terminals.

The shape and dimensions of the 1.2 removal tool are shown on Figure 6 through Figure 8.

### 3.4. Outils de démontage

#### 3.4.1. Outil de démontage du DV latéral

L'outil de démontage du DV latéral peut être n'importe quel tournevis plat dont la largeur n'excède pas 2.0mm et l'épaisseur 0.5mm.

#### 3.4.2. Outil d'extraction des contacts

##### 3.4.2.1. Outil d'extraction des contacts 1.2

L'outil d'extraction des contacts 1.2 numéro ZDD-15-0045 peut être utilisé pour les clips et les languettes.

La forme et les dimensions de cet outil sont montrées aux Figure 6 à Figure 8.

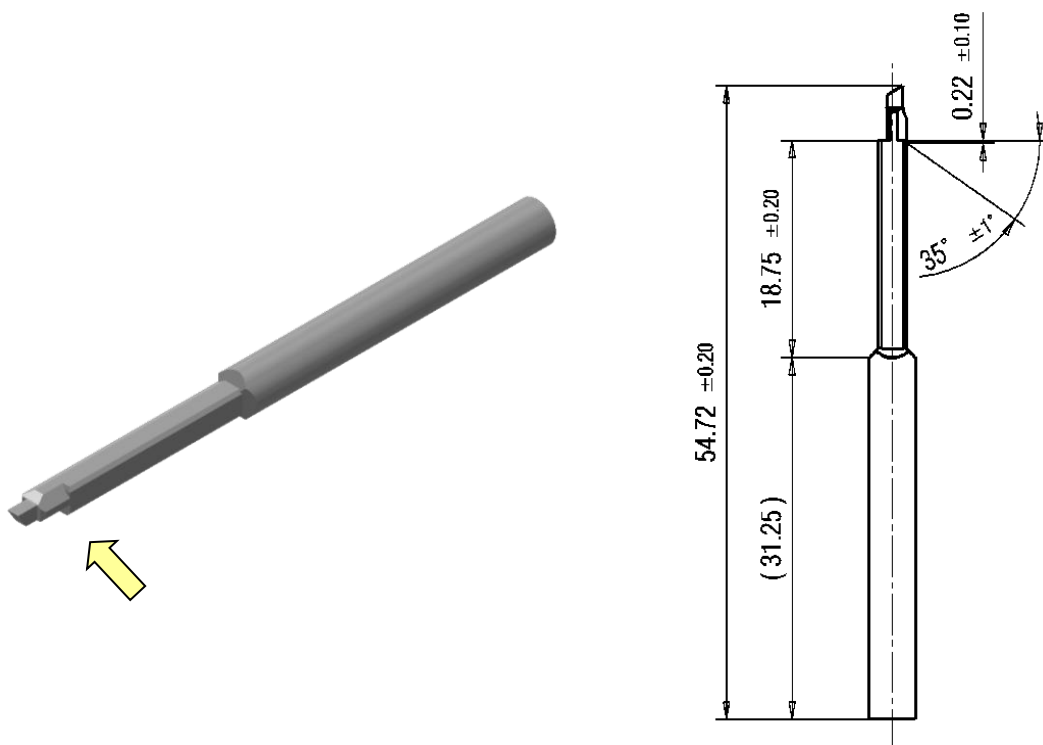


Figure 6 1.2 terminal removal tool / Outil d'extraction des contacts 1.2

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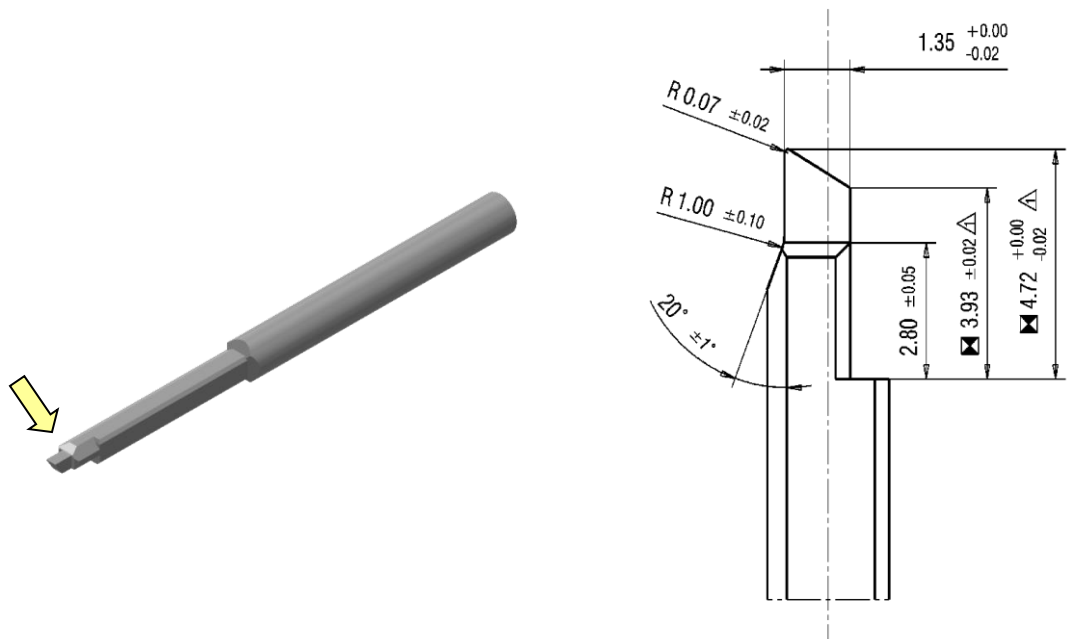


Figure 7 1.2 terminal removal tool / Outil d'extraction des contacts 1.2

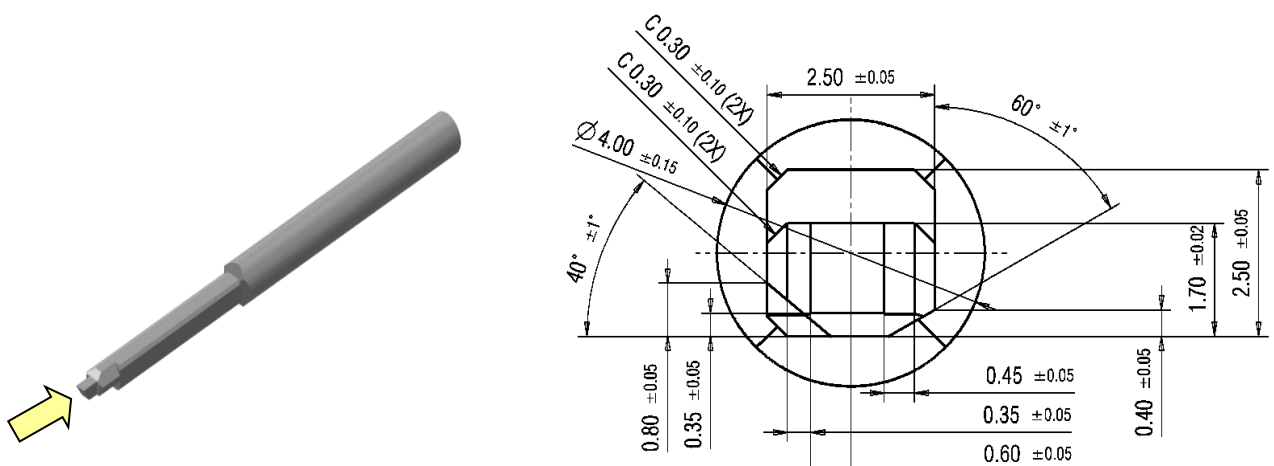


Figure 8 1.2 terminal removal tool / Outil d'extraction des contacts 1.2

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3.4.2.2. 2.8 terminal removal tool

3.4.2.2. Outil d'extraction des contacts 2.8

2 Aptiv removal tool No. 6 590 18 00 (Figure 9) is used for 2.8 male and female terminals. Details are shown in Figure 10.

Aptiv l'outil d'extraction numéro 6 590 18 00 (Figure 9) est utilisé pour les contacts 2.8. Les détails sont montrés aux Figure 10.

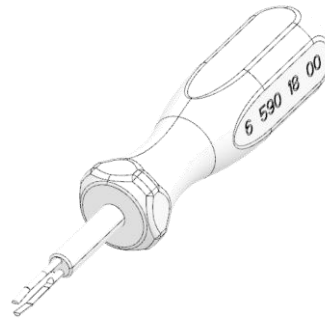
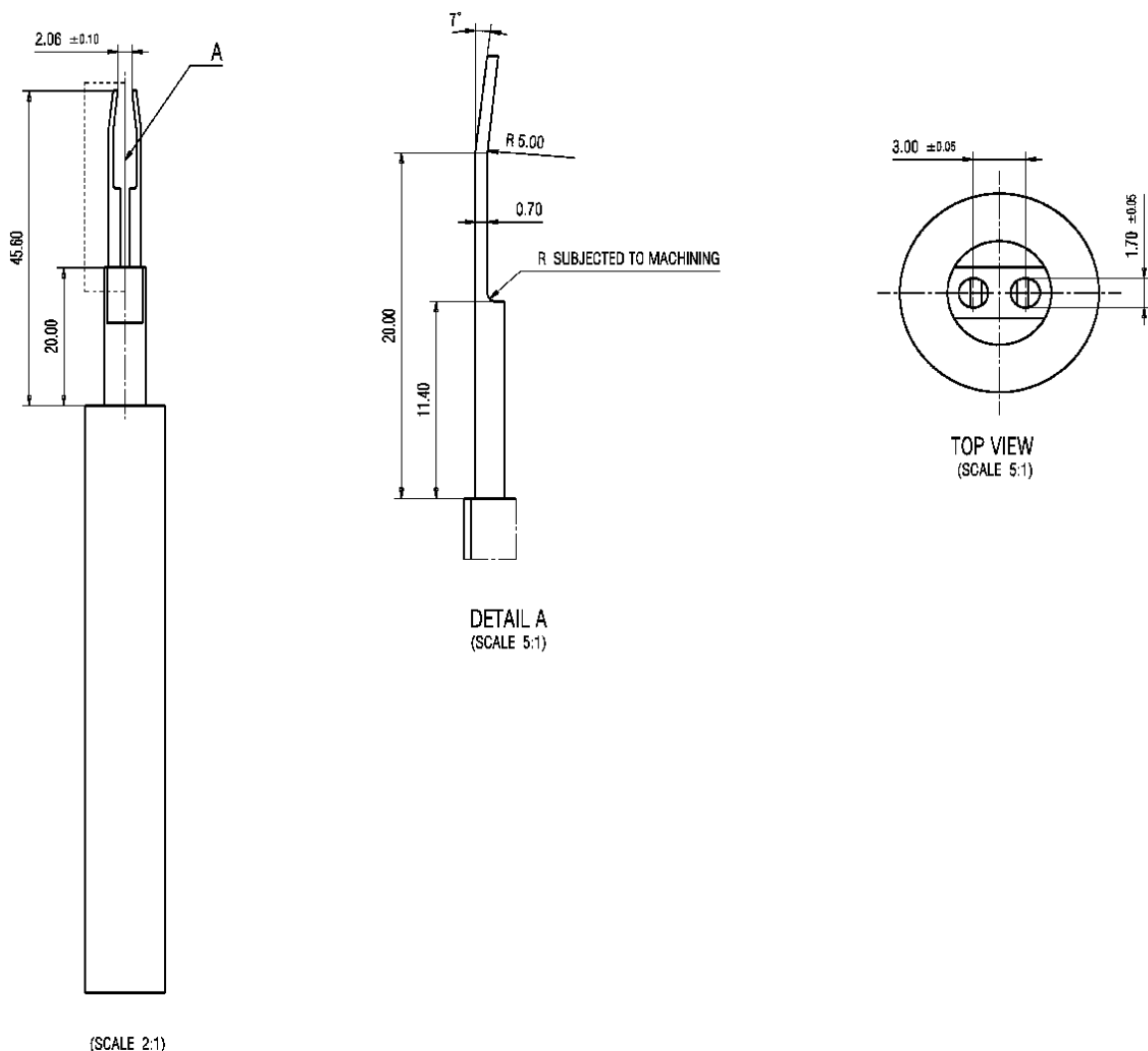


Figure 9 2.8 terminal removal tool (Aptiv) / Outil d'extraction des contacts 2.8 (Aptiv)



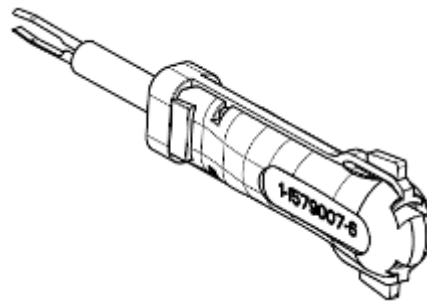
1 Figure 10 2.8 terminal removal tool / Outil d'extraction des contacts 2.8

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2

Tyco removal tool No. 0-1579007-1 (Figure 11) is used for 2.8 male and female terminals

*Tyco l'outil d'extraction numéro 0-1579007-1 (Figure 11) est utilisé pour les contacts 2.8.*



*Figure 11 2.8 terminal removal tool (Tyco) / Outil d'extraction des contacts 2.8 (Tyco)*

**Precautions:**

- To avoid terminal deformation, do not scoop with the tool;
- Check if any terminal deformation occurred during the removal process. If so, do not attempt to repair the damage. Instead, always replace the deformed terminals.

**Précautions:**

- *Pour éviter la déformation du contact, ne pas tourner l'outil;*
- *Vérifier qu'aucune déformation du contact n'arrive lors de l'extraction. Si c'est le cas, ne pas essayer de le réparer. Toujours remplacer les contacts déformés.*

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#### 4. Parts description and function

1.2 NWP connector parts are shown in Figure 12 (6P 2x2.8+4x1.2 NWP connector is used as an example throughout the entire document).

#### 4. Description des composants et fonction

Les pièces des connecteurs la famille 1.2 sont montrées en figure 12 (le connecteur 6 voies hybride est utilisé comme exemple pour le reste du document).

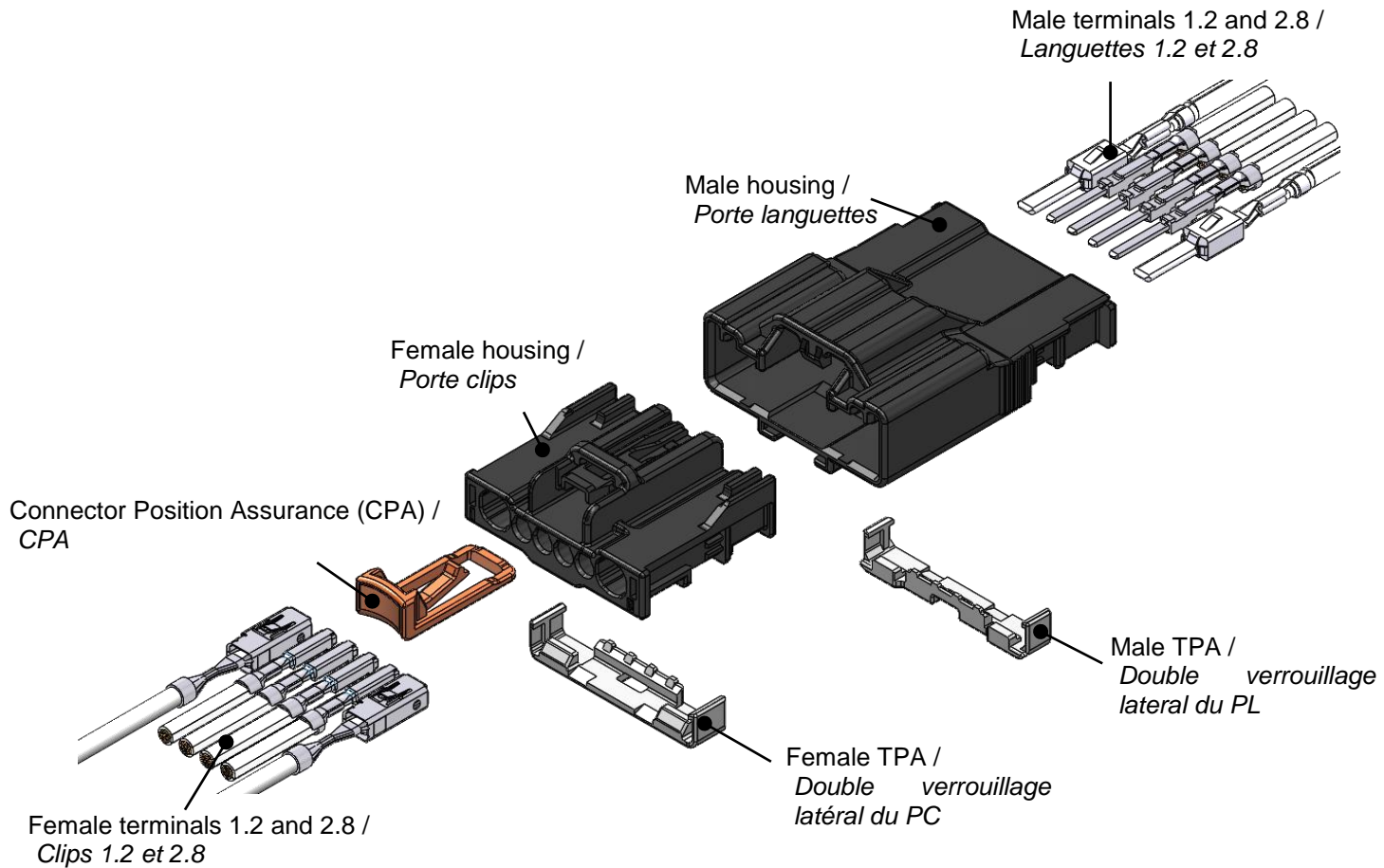


Figure 12 6P hybrid NWP connector – single parts / Connecteur 6 voies hybride - décomposition

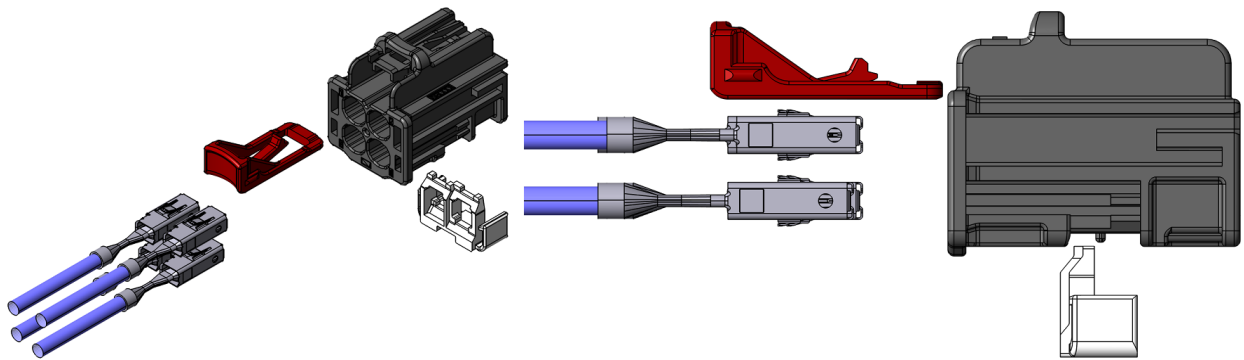
All hybrid (1.2 + 2.8 system) NWP connectors have a male TPA for a male hybrid connector, and female TPA for a female hybrid connector.

Tous les connecteurs hybrides (contacts 1.2 et 2.8) ont un double verrouillage latéral différent entre le porte-languettes et le porte-clips.

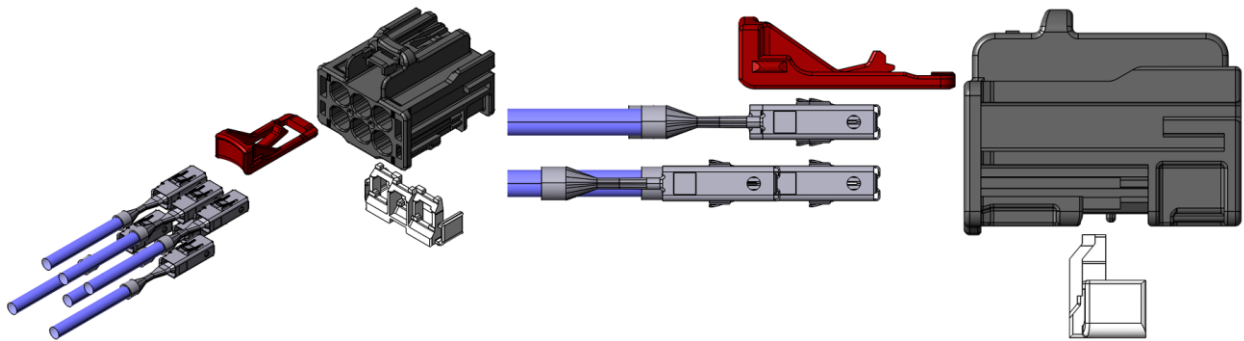
All pure 1.2 NWP and 2.8 NWP connectors have a common TPA. Both male and female connectors have one.

Tous les connecteurs avec des contacts 1.2 uniquement ont un double verrouillage latéral unique commun entre le PC et le PL.

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1 Figure 13 4P 2.8 NWP connector- single parts / Porte-Clips 4 voies 2.8 – Décomposition



1 Figure 14 6P 2.8 NWP connector single parts / Porte-Clips 6 voies 2.8 – Décomposition

1 4P and 6P 2.8 NWP connectors have misaligned cavities, as partially shown in Figure 13 and Figure 14 (for details, refer to customer drawings).

*Les portes-clips 4 voies et 6 voies 2.8 ont des alvéoles décalées, comme montré sur les Figure 13 et Figure 14 (pour les détails, se référer aux plans Client.)*

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**4.1. Significant features (description and function)**

**4.1. Caractéristiques principales (description et fonction)**

**4.1.1. Connector mated**

**4.1.1. Connecteurs accouplés**

A mated 1.2 NWP connector is shown in Figure 15 through Figure 17 (6P 2x2.8+4x1.2 NWP HYB connector example).

Voici l'exemple de connecteurs accouplés, de la Figure 15 à la Figure 17 (connecteur 6 voies hybride pris comme exemple).

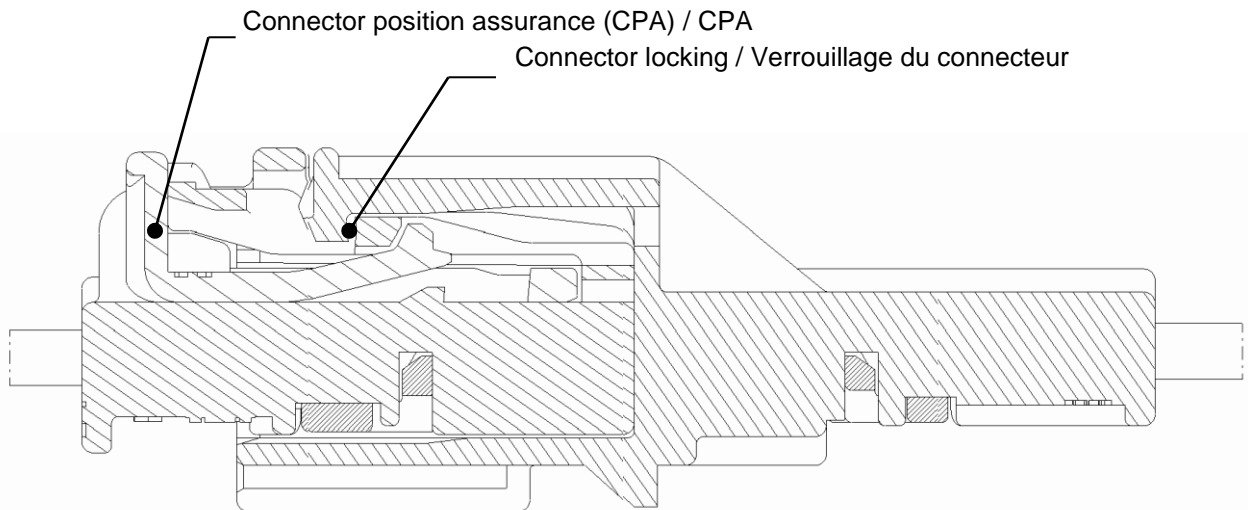


Figure 15 6P hybrid NWP connector mated – connector locking / Connecteurs 6 voies hybrides accouplés – verrouillage du connecteur

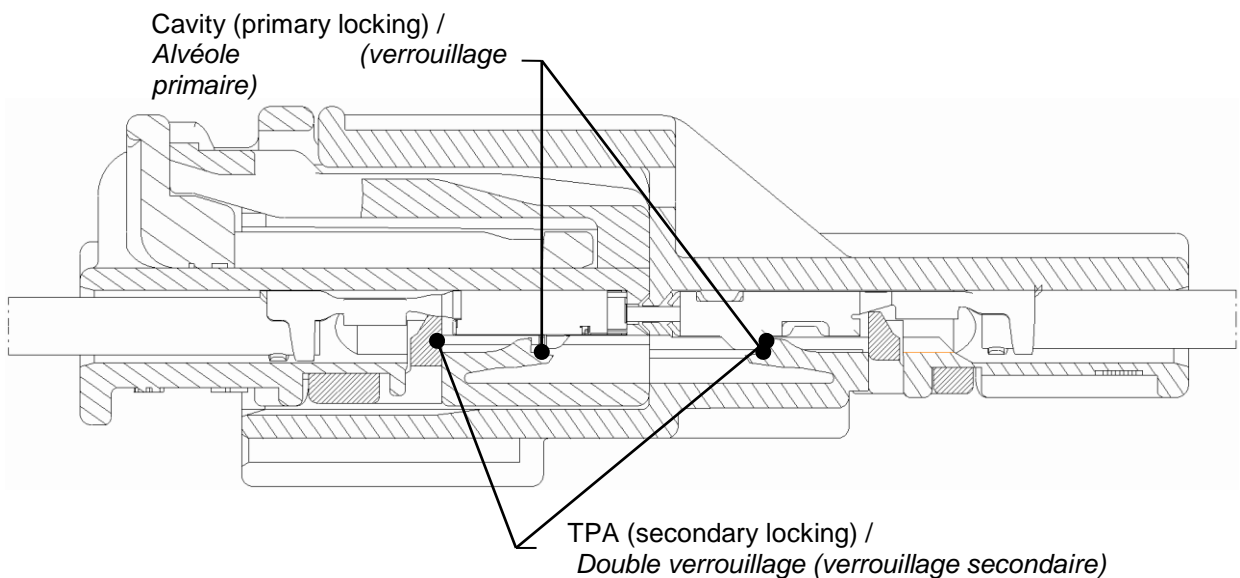


Figure 16 6P hybrid NWP connector mated – 1.2 terminal locking / Connecteurs 6 voies hybrides accouplés – verrouillage du contact 1.2

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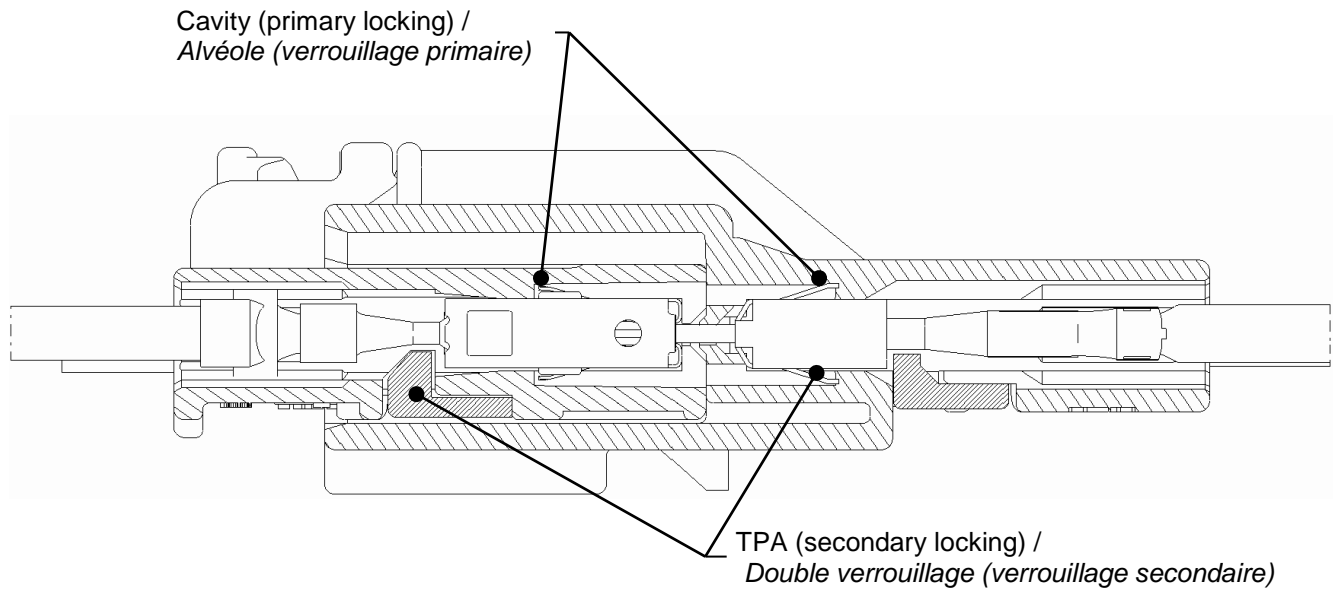


Figure 17 6P hybrid NWP connector mated - 2.8 terminal locking / Connecteurs 6 voies hybrides accouplés – verrouillage du contact 2.8

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#### 4.1.2. Cavity (primary locking)

Primary locking is designed so that it locks terminal in correct position inside terminal cavity to ensure proper connection.

#### 4.1.2. Alvéole (verrouillage primaire)

Le verrouillage primaire est conçu pour verrouiller le contact en bonne position dans la cavité afin d'assurer une bonne connexion.

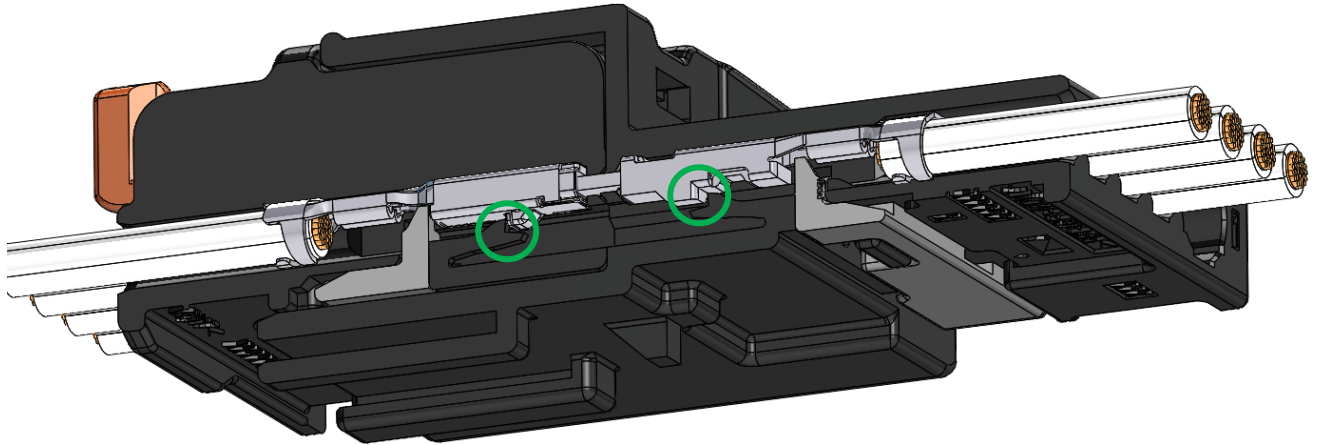


Figure 18 6P hybrid NWP connector mated - 1.2 terminal locking / Connecteurs 6 voies hybrides accouplés – verrouillage des contacts 1.2

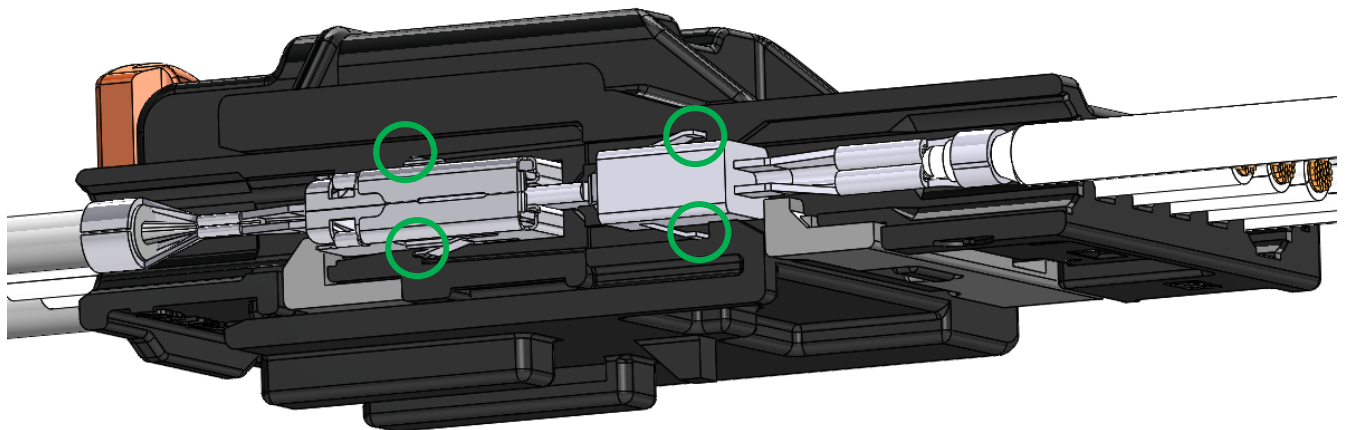


Figure 19 6P hybrid NWP connector mated - 2.8 terminal locking / Connecteurs 6 voies hybrides accouplés – verrouillage des contacts 2.8

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#### **4.1.3. TPA (Terminal Position Assurance)**

After terminal insertion, push TPA (secondary locking) from pre-set (open) to set (closed) position. This action ensures that all terminals are fully and properly inserted.

If TPA could not be pushed in set position, the terminals are not properly inserted. For details, refer to chapter 5.1.2 TPA – pre-set to set position.

#### **4.1.4. Connector locking**

Connector locking provides locking between female housing and opposite interface or male housing.

#### **4.1.5. CPA (Connector Position Assurance)**

When male and female sides are properly mated and locked, CPA ensures the connector is in fully mated position. For details, refer to chapter 5.1.3 CPA – pre-set to set position.

#### **4.1.6. Codings**

For details about codings, please refer to 3.1 Customer drawings.

#### **4.1.3. Double verrouillage des contacts**

*Après l'insertion des contacts, fermer le double verrouillage. Cette action assure la bonne insertion des contacts.*

*Si le double verrouillage ne peut pas être fermé, les contacts ne sont pas correctement insérés. Pour les détails, se référer au chapitre 5.1.2 sur le double verrouillage – fermeture du DV.*

#### **4.1.4. Verrouillage des connecteurs**

*Le verrouillage du connecteur permet de verrouiller le porte clips sur un porte languettes ou sur une interface.*

#### **4.1.5. CPA (Double verrouillage des connecteurs)**

*Lorsque les porte languettes et porte clips sont correctement verrouillés, le CPA s'assure que les connecteurs sont en position accouplée. Pour les détails, se référer au chapitre 5.1.3 CPA - fermeture du CPA.*

#### **4.1.6. Codages**

*Pour les détails concernant les codages, se référer aux 3.1 Plans clients.*

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## 5. Connector handling

### 5.1. Instructions for installation

For terminal crimping refer to referenced documents released by terminal manufacturer.

#### 5.1.1. Terminal insertion

Before the insertion of terminals, check if the TPA is in pre-set position (Figure 20). Make sure the TPA is inserted properly (improper example on Figure 21).

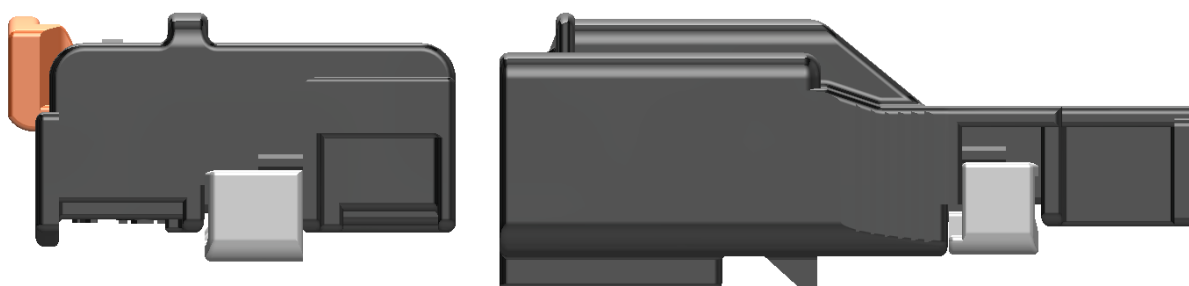


Figure 20 TPA in pre-set position (female and male housing) / Double verrouillage en position ouvert (porte clips et porte languettes)

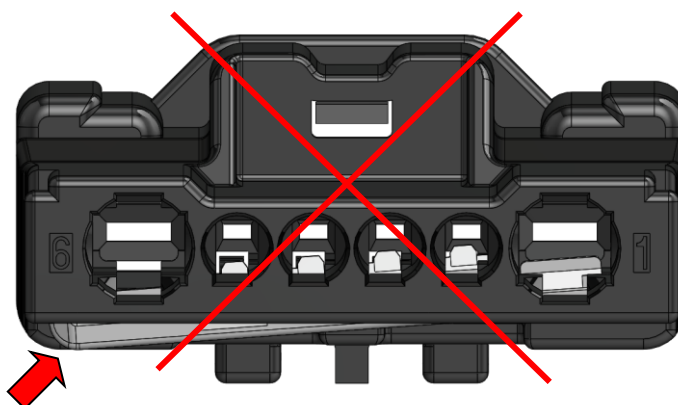


Figure 21 TPA positioned improperly - unacceptable / Double verrouillage mal positionné – non acceptable

Align a female terminal and a female 1.2 NWP connector and a male terminal and a male 1.2 NWP connector as shown on Figure 22.

In order for the terminals to lock within housing, a terminal lance should get in contact with cavity lance, as shown on Figure 23. So, for proper orientation of terminals, make sure that for both 1.2 and 2.8 male and

## 5. Manipulation des connecteurs

### 5.1. Instructions pour l'installation

Pour le sertissage des contacts, se référer aux documents de référence des fournisseurs de contacts.

#### 5.1.1. Insertion des contacts

Avant l'insertion des contacts, vérifier que le double verrouillage est en position ouverte. S'assurer que le double verrouillage est correctement inséré (exemple de mauvaise insertion en Figure 21).

Aligner un clip et un porte-clips et une languette et un porte-languettes comme montré en figure 22.

Afin de verrouiller les contacts dans leur boîtier, les contacts doivent être en contact avec la lance de l'alvéole, comme montré en figure 23. Ainsi pour la bonne orientation des contacts, s'assurer que pour les clips et languettes 1.2 et 2.8, la lance est face au

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female terminals, lance is facing TPA. For details, please refer to Table 8 and Table 9.

Insert a terminal until a click sound is heard. After insertion of a terminal, pull the wire slightly in order to check that the terminal is locked. Repeat with all the corresponding terminals.

Precautions:

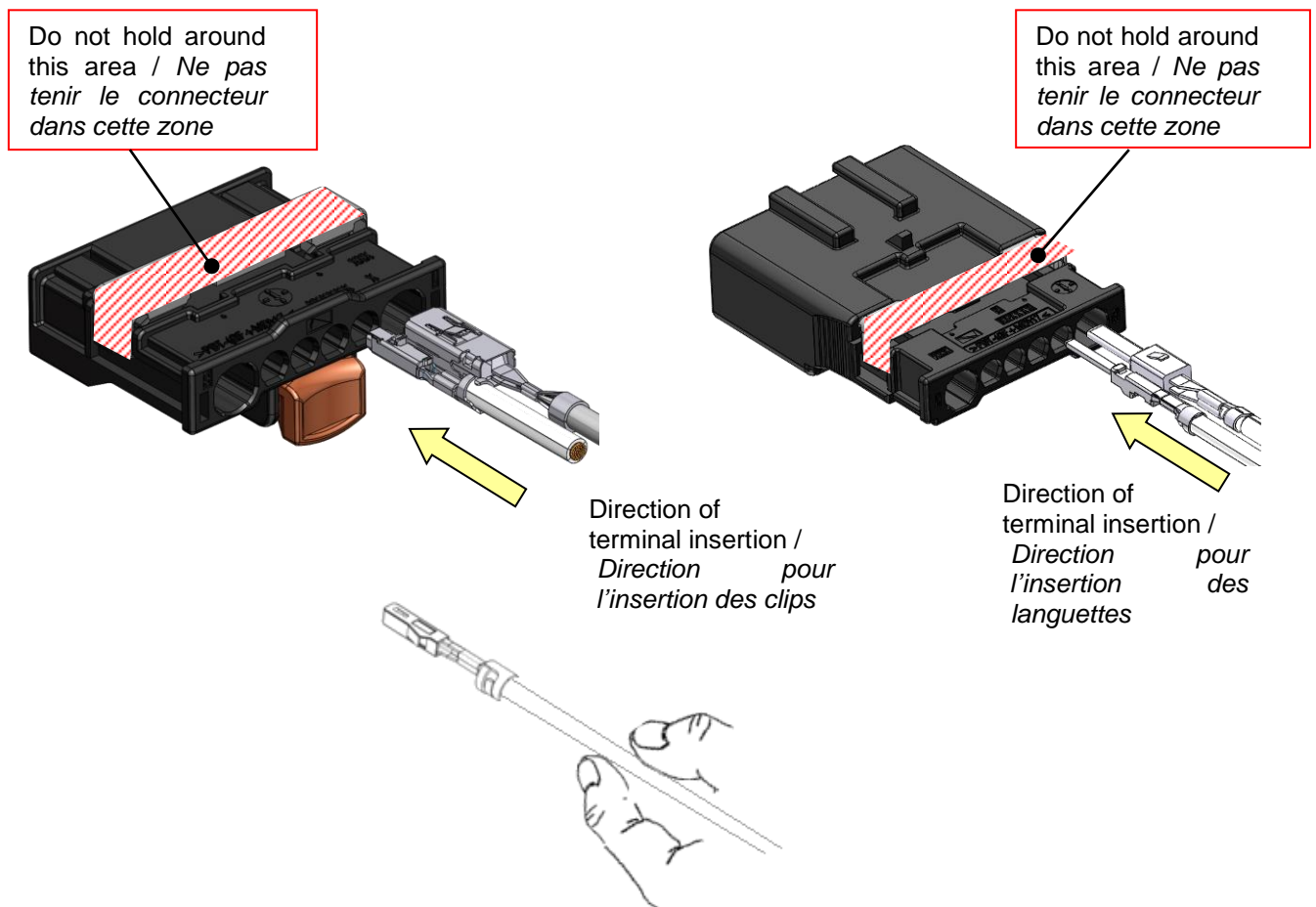
- Check for any dirt or other foreign objects on the terminal or in the cavity;
- During terminal insertion, do not hold the connector by the TPA or around the TPA area because it can accidentally be moved from pre-set to set position and render the remaining terminal insertion impossible.

*double verrouillage. Pour les détails, se référer aux tables 8 et 9.*

*Insérer les contacts jusqu'à entendre un clic. Après l'insertion des contacts, tirer légèrement sur le fil pour vérifier que le contact est verrouillé. Répéter l'opération sur tous les contacts.*

Précautions :

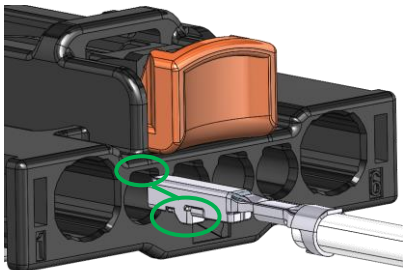
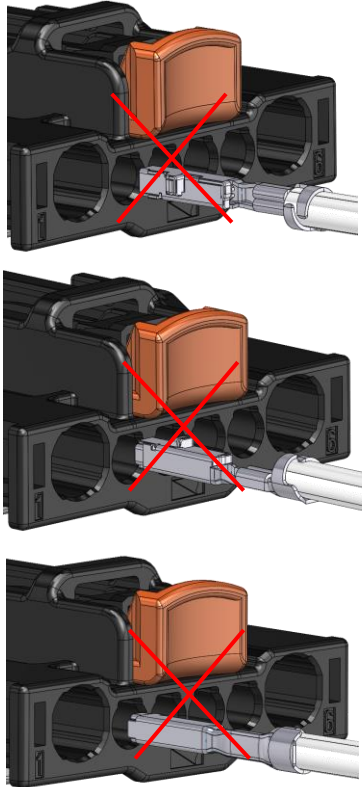
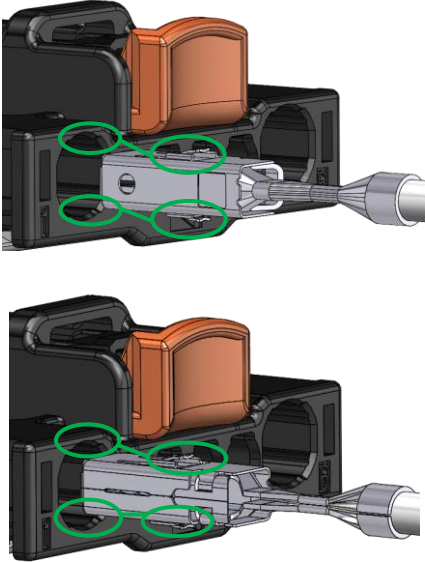
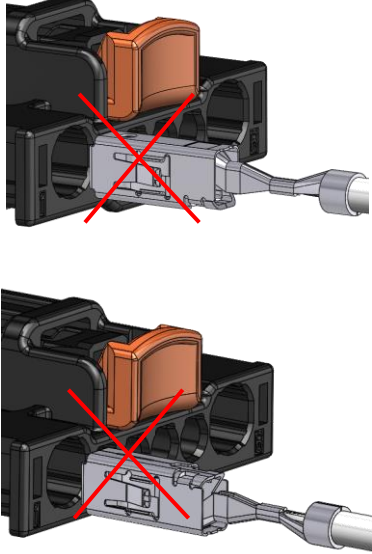
- *Vérifier la présence de saleté ou de tout autre objet étranger sur le contact ou dans l'alvéole ;*
- *Pendant l'insertion des contacts, ne pas tenir le connecteur par le double verrouillage ou dans la zone alentour car cela pourrait fermer accidentellement le double verrouillage et empêcher l'insertion des contacts.*



*Figure 22 Proper terminal insertion / Insertion correcte des contacts*

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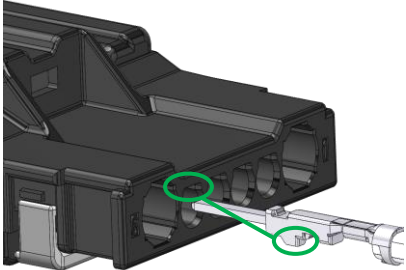
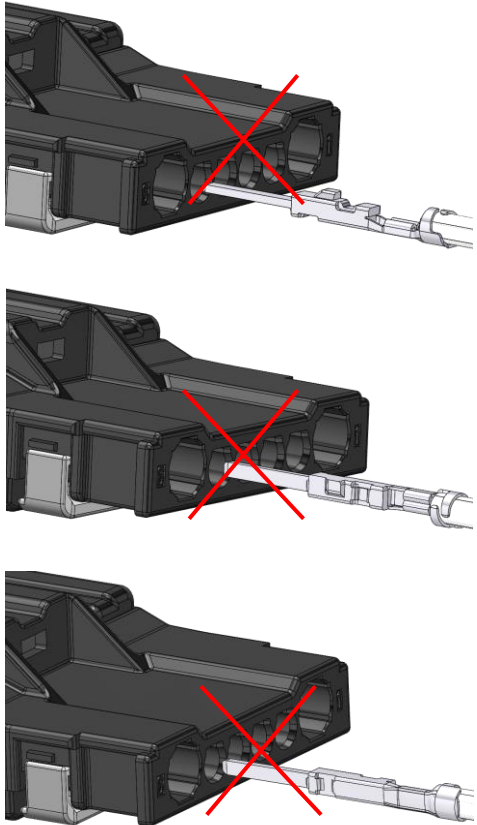
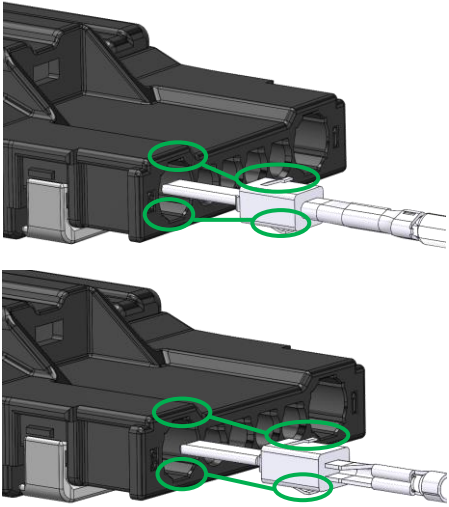
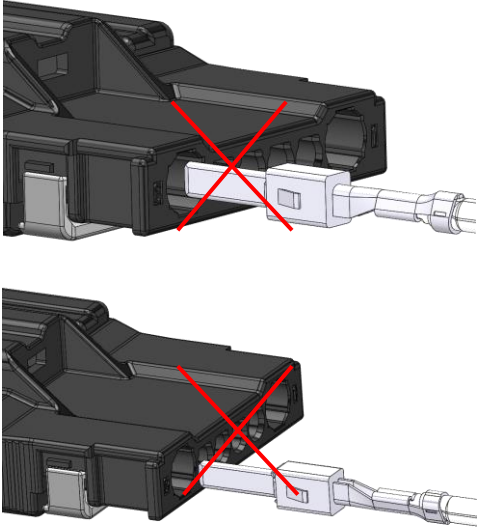
Table 8 Female terminal insertion / Insertion des clips

<b>1.2 female terminal insertion / Insertion des clips 1.2</b>	
ACCEPTABLE / ACCEPTABLE	UNACCEPTABLE / NON ACCEPTABLE
	
<b>2.8 female terminal insertion / Insertion des clips 2.8</b>	
ACCEPTABLE / ACCEPTABLE	UNACCEPTABLE / NON ACCEPTABLE
	

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Table 9 Male terminal insertion / Insertion des languettes

<b>1.2 male terminal insertion / Insertion des languettes 1.2</b>	
ACCEPTABLE / ACCEPTABLE	UNACCEPTABLE / NON ACCEPTABLE
	
<b>2.8 male terminal insertion / Insertion des languettes 2.8</b>	
ACCEPTABLE / ACCEPTABLE	UNACCEPTABLE / NON ACCEPTABLE
	

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Male and female cavity lance lock the terminals inside the housing providing a primary locking. A click sound is heard when a terminal gets into locked position behind the cavity lance.

La lance de l'alvéole verrouille les contacts à l'intérieur du boîtier, fournissant un verrouillage primaire. Un clic est audible lorsque le contact se met en bonne position.

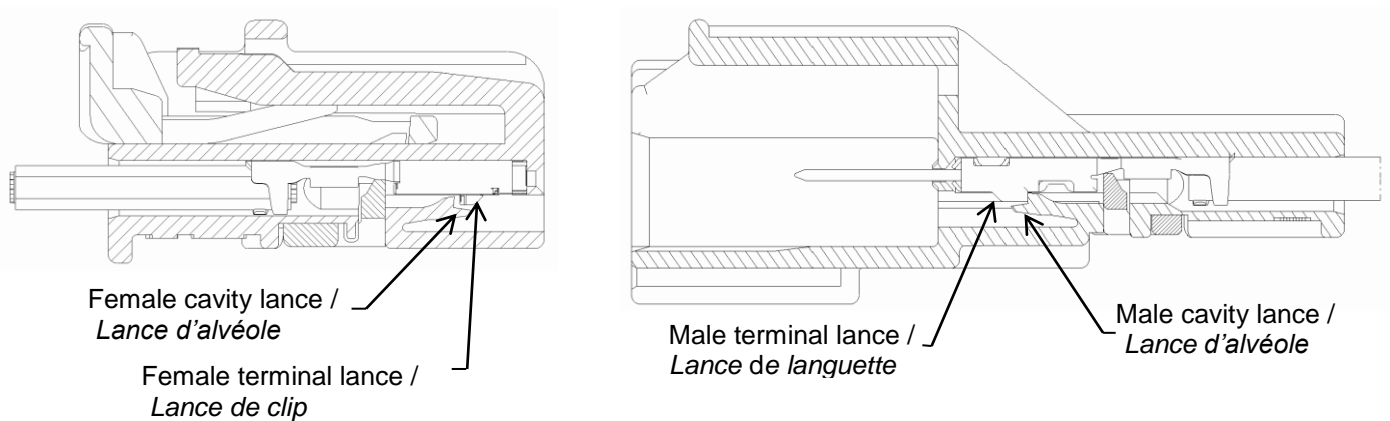


Figure 23 Cavity (primary locking) / Alvéole (verrouillage primaire)

In case of a possible improper insertion, electrical contact between male and female terminals will not be made and there is a chance of damage to the cavity or terminal (Figure 24 through Figure 26). Visually inspect both housing and terminals and replace them with a new part if necessary.

En cas d'insertion incorrecte, il n'y aura pas de contact électrique et il y a un risque d'endommager le contact ou l'alvéole (figure 24 à 26). Inspecter visuellement les contacts et les boîtiers et les remplacer par des nouvelles pièces si nécessaires.

**Precaution:**

- Do not use a damaged housing or terminal!

**Précautions :**

- Ne pas utiliser un contact ou un boîtier endommagé!

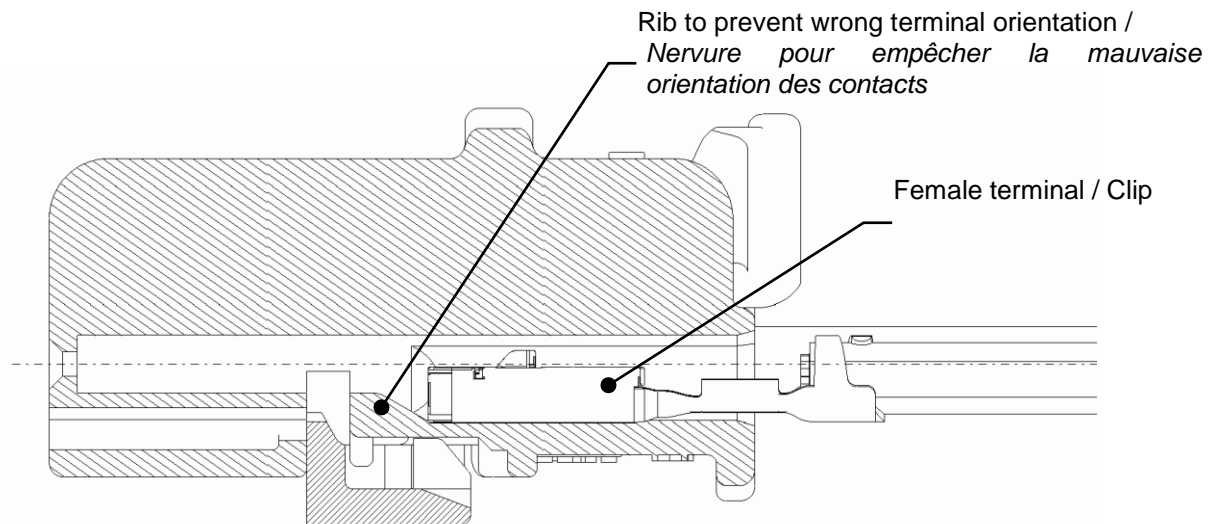


Figure 24 Wrong polarisation of a female terminal – unacceptable / Mauvaise orientation d'un clip – non acceptable

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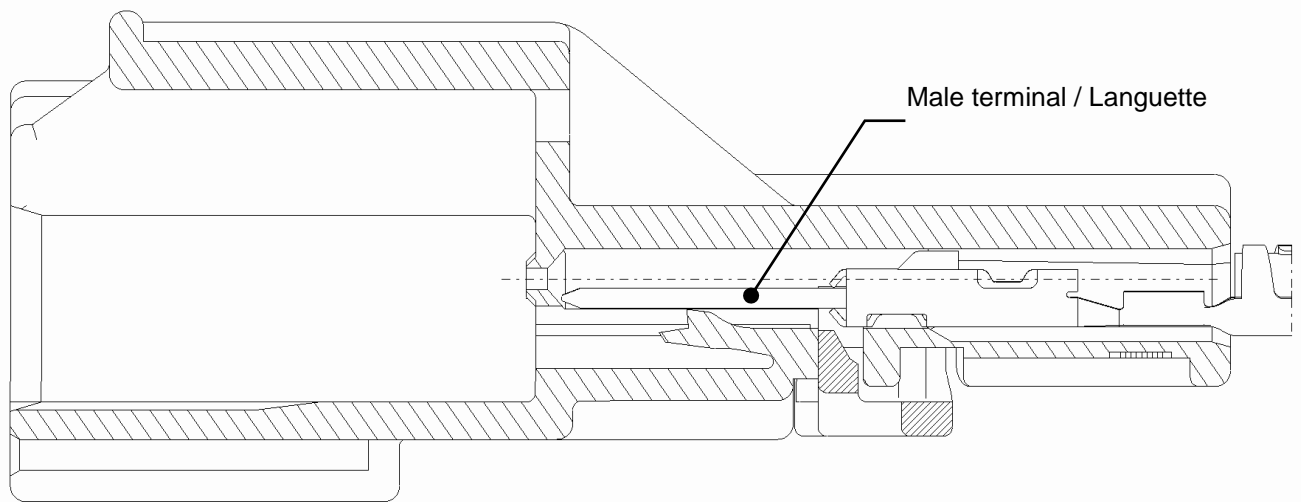


Figure 25 Wrong polarisation of a male terminal – unacceptable / Mauvaise orientation d'une languette – non acceptable

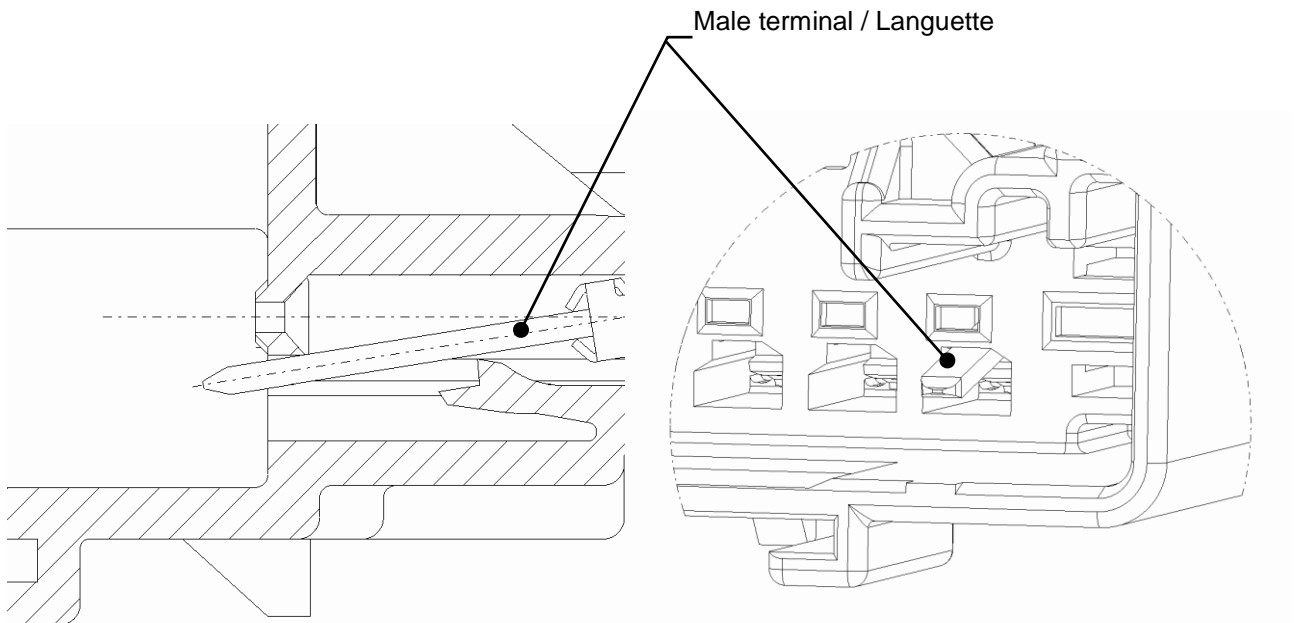


Figure 26 Improper insertion of a male terminal – unacceptable / Insertion incorrecte d'une languette – non acceptable

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### 5.1.2. TPA - pre-set to set position

In order to ensure the terminals are properly secured, TPA should be in set position.

After all terminals inside the housing are inserted, push TPA until it is in set position as shown on Figure 29. TPA closing force, according to PSA specification, is between 20N and 40N (Table 12).

Make sure to push the TPA on entire hatched surface to lock it in the right position, as shown on Figure 30 and Figure 31.

In case of automatic TPA closing, full surface of the TPA shall be used.

#### Precautions:

- There are two ribs on each TPA, one on each side to prevent improper mating of TPA with a housing (Figure 28).
- TPA should be in a fully set position, locked on both sides. Its function is jeopardized if it is not set and locked properly (see Figure 32);
- If the TPA cannot be inserted smoothly or at all into the set position, it is most likely that one or more terminals were not inserted properly. In that case, re-insert the terminals;
- Replace any damaged parts with new spare ones.

### 5.1.2. DV latéral - position ouvert à position fermé

*Afin de s'assurer que les contacts soient correctement verrouillés, le double verrouillage doit être en position fermée.*

*Après que tous les contacts sont insérés dans le boîtier, pousser le double verrouillage jusqu'à ce qu'il soit fermé comme montré en figure 29. La force de fermeture du double verrouillage, suivant la spécification PSA, doit être comprise entre 20N et 40N (table 12).*

*S'assurer de pousser sur la surface hachurée du double verrouillage afin de le verrouiller en bonne position comme montré en figure 30 et figure 31.*

*En cas de fermeture automatique du double verrouillage, la surface entière doit être prise en compte.*

#### Précautions :

- *Il y a 2 nervures sur chaque double verrouillage, une de chaque côté pour empêcher la mauvaise insertion du double verrouillage sur le boîtier (figure 28).*
- *Le double verrouillage doit être verrouillé de chaque côté. Sa fonction est compromise s'il n'est pas fermé et verrouillé correctement (voir figure 32).*
- *Si le double verrouillage ne peut pas être fermé facilement, c'est probablement parce qu'un ou plusieurs contacts ne sont pas insérés correctement. Dans ce cas, réinsérer les contacts.*
- *Remplacer chaque pièce endommagée par une nouvelle.*

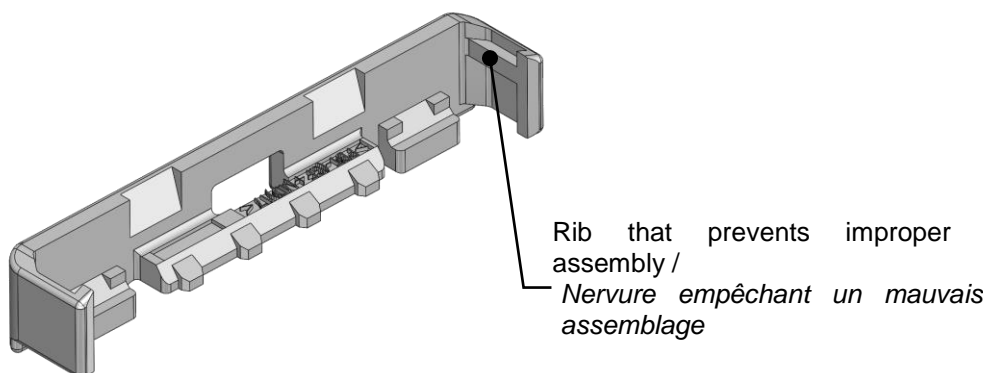


Figure 27 6P hybrid male TPA / Double verrouillage du PL 6P hybride

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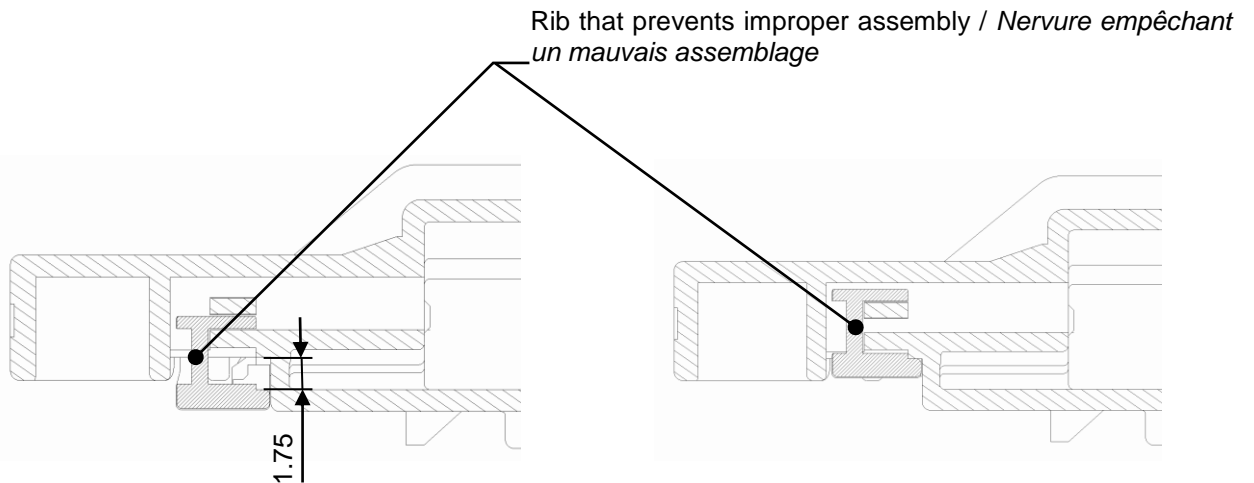


Figure 28 6P hybrid male TPA pre-set and set position / Double verrouillage du PL 6P hybride en position ouvert et fermé

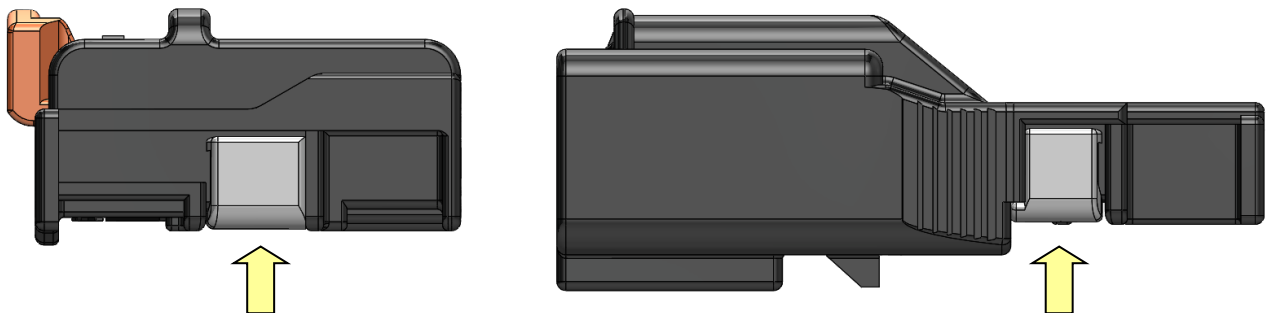


Figure 29 TPA in set position (female and male housing) / Double verrouillage en position fermée (PC et PL)

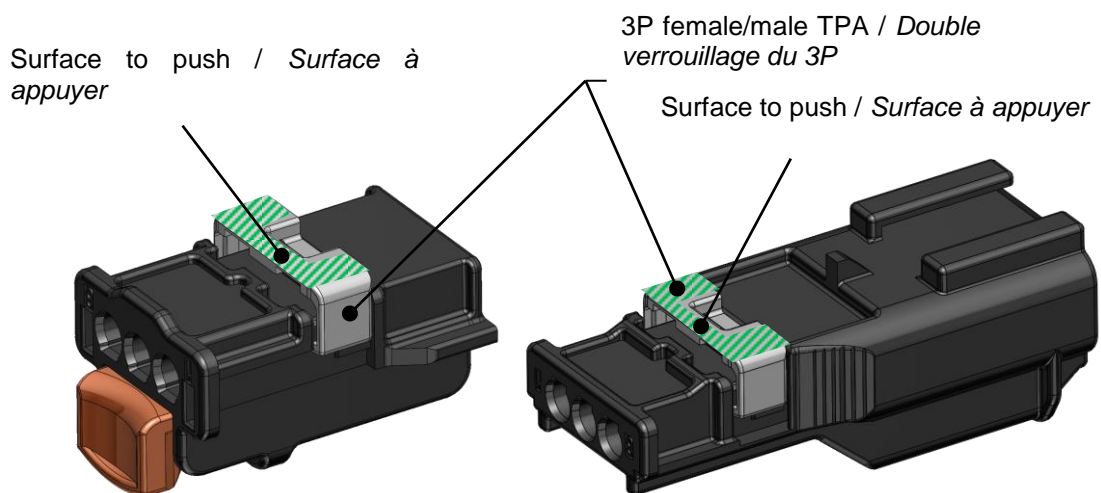


Figure 30 Small connector - 3P TPA / Petit connecteur – Double verrouillage du 3P

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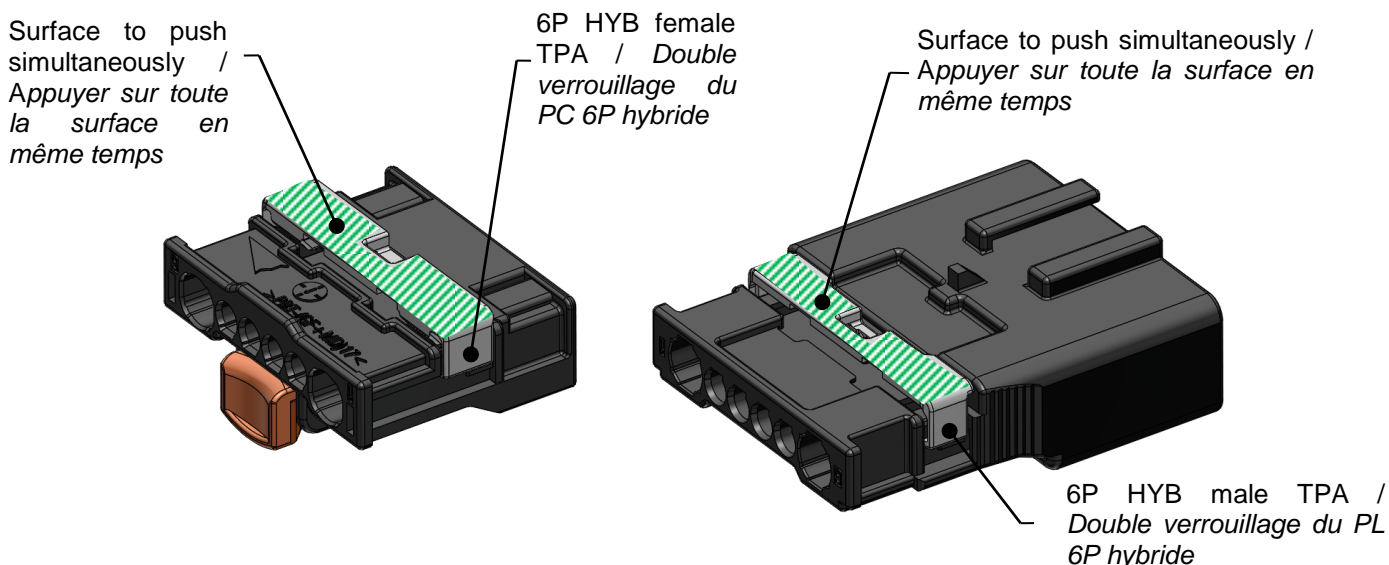


Figure 31 Big connector - 6P hybrid TPA / Gros connecteur – Double verrouillage du 6P hybride

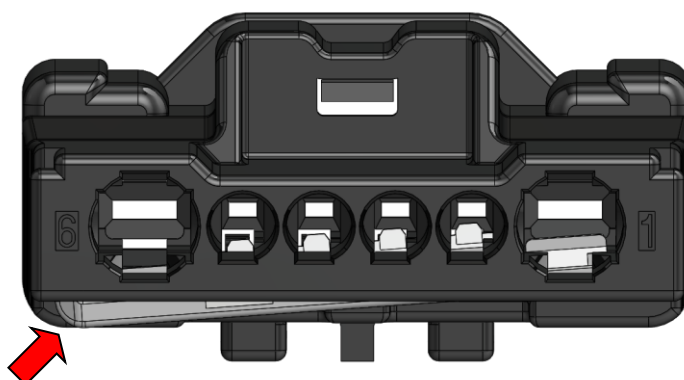


Figure 32 TPA positioned improperly - unacceptable / Double verrouillage mal positionné – non acceptable

### 5.1.3. CPA – pre-set to set position

When both male and female sides are fully mated, push CPA from pre-set to set position (see arrow in Figure 33). This disables the lifting of the locking arm and therefore prevents disconnection of male and female housings. CPA closing force, according to PSA specification, is between 20N and 30N (Table 10).

If male and female sides are not fully mated, it is not possible to push CPA from pre-set to set position.

Precautions:

- To avoid any unnecessary damage to the locking features, do not use unsuitable tools, such as a screwdriver, to operate CPA.

### 5.1.3. CPA - position ouvert à position fermé

Lorsque les porte clips et porte languettes sont accouplés, fermer le CPA (voir la flèche de la figure 33). Cela désactive le soulèvement du bras de verrouillage et empêche le désaccouplement des connecteurs. La force de fermeture du CPA, conformément à la spécification PSA, est comprise entre 20N et 30N (table 10).

Si les PC et PL ne sont pas complètement accouplés, il n'est pas possible de fermer le CPA.

Précautions :

- Pour éviter tout dégât, ne pas utiliser d'outils inappropriés, comme un tournevis, pour manipuler le CPA.

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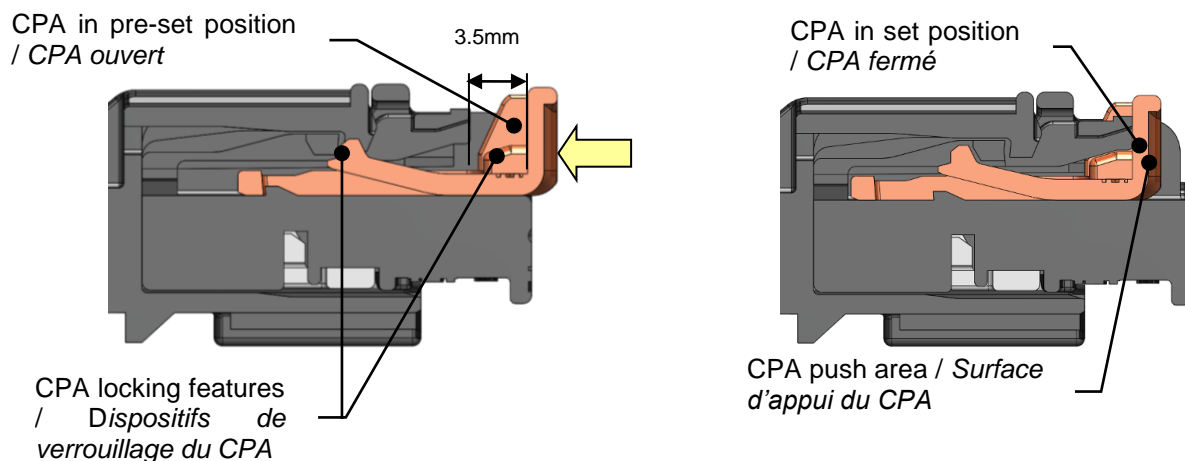


Figure 33 CPA in pre-set and set position / CPA en position ouvert et fermé

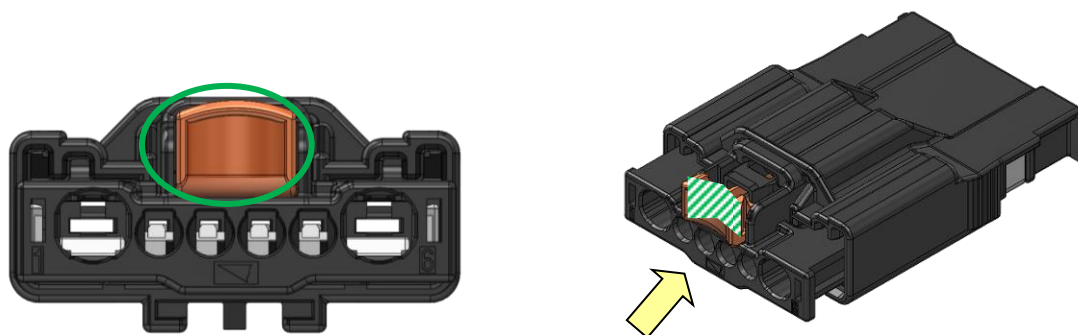


Figure 34 CPA push area / Surface d'appui du CPA

Table 10 Activation and deactivation force of CPA / Force d'activation et de désactivation du CPA

Activation load / Force d'activation		Deactivation load / Force de désactivation	Pulling out load / Force d'arrachement
Locked connector / Connecteurs accouplés	Vacuum / A vide	10N < F < 30N	100N
20N < F < 30N	80N min		

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## 5.2. Wiring harness assembly

### 5.2.1. Precautions during wire harness assembly

- Avoid snagging of the terminals;
- Deformed and damaged parts shall be replaced with new ones;
- Apply the tape in such a manner that every individual wire is under equal amount of tensile force. Concentration of tensile force on a particular wire may cause a harmful effect, such as inadvertent disengagement of a terminal;
- If bending of a wire is necessary because of a short distance to the connector, bend the wires in the desired direction first and then apply the tape. The wrong application sequence may cause stress, which could compromise the contact.
- Taping of the harness is defined as follows:
  - $L_1$  is the distance between the farthest wires which go into the connector;
  - $L_2$  is generally equal to the length  $L_1$  (tolerance =  $0+10\text{mm}$ );
  - The excess wires must be housed in the harness body, not creating significant thickness;
  - Please see Table 11 for entire 1.2 family wire taping details.

## 5.2. Assemblage du faisceau

### 5.2.1. Précautions lors de l'assemblage du faisceau

- Éviter l'endommagement des contacts ;
- Les pièces déformées ou endommagées doivent être remplacées par des nouvelles ;
- Réaliser l'enrubannage de telle manière que chaque fil soit soumis à un effort de traction équivalent. La concentration de l'effort de traction sur un seul fil peut avoir des conséquences dangereuses telles que le déverrouillage d'un contact ;
- Dans le cas où le pliage du fil est requis en sortie du connecteur, plier dans un premier temps le fil dans la direction souhaitée, puis procéder à l'enrubannage. Le non-respect de cet ordre peut générer une contrainte, entraînant un déverrouillage involontaire du contact.
- L'enrubannage des contacts est défini comme suit :
  - $L_1$  est la plus grande distance entre les fils entrant dans le connecteur,
  - $L_2$  est généralement égale à la longueur  $L_1$  (tolérance =  $0+10\text{mm}$ );
  - Les fils en excès doivent être logés dans le corps du faisceau, ne créant pas de surépaisseur importante;
  - Merci de se référer à la table 11 pour les détails sur les connecteurs de la famille 1.2

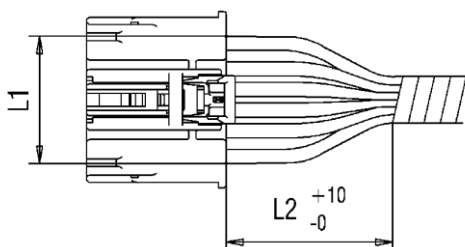






Figure 35 Wire taping / Enrubannage

Table 11 1.2 family wire taping / Enrubannage pour les connecteurs de la famille 1.2

Connector	$L_1$ [mm]	$L_2$ [mm]	Connector 	$L_1$ [mm]	$L_2$ [mm]
2P 1.2	3.5	$10_0^{+10}$	6P 2.8 	11.0	$11_0^{+10}$
2P 2.8	5.5	$10_0^{+10}$	6P HYB	19.5	$19.5_0^{+10}$
3P	7.0	$10_0^{+10}$	8P	10.5	$10.5_0^{+10}$
3P HYB	9.0	$10_0^{+10}$	8P HYB	16.0	$16_0^{+10}$
4P 	10.5	$10.5_0^{+10}$	10P	14.0	$14.0_0^{+10}$
4P 2.8 	5.5	$10_0^{+10}$	12P HYB	23.0	$23.0_0^{+10}$
6P	17.5	$17.5_0^{+10}$	14P	21.0	$21.0_0^{+10}$

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### 5.2.2. Notices for packing the wire harnesses

Like all plastics, a 1.2 NWP connector may be damaged if external force is applied to it during transportation or storage. To prevent damage, take the following actions as well as the standard packaging and handling procedures:

- When packing wire harnesses in layers, use corrugate dividers for each layer, including layer dividers, vertical or horizontal dividers, internal supports and partitions to equally distribute weight of upper layer harnesses on lower layer harnesses;
- Any heavy and/or bulky objects shall be placed on the bottom of the carton or divider to prevent their weight from being applied on the connector (Figure 36). Maximum weight allowed on a single connector shouldn't surpass 20 kg;

### 5.2.2. Instructions d'emballage des faisceaux

Comme tous les plastiques, les connecteurs de la famille 1.2 peuvent être abîmés si une contrainte extérieure est appliquée lors du transport ou du stockage. Pour éviter tout dommage, veuillez respecter les précautions suivantes ainsi que les procédures d'emballage et de manipulation

- Si les faisceaux sont emballés par couche, utiliser des intercalaires ondulés entre chaque couche, incluant des séparateurs de couche, des intercalaires verticaux ou horizontaux, des supports internes, et des séparateurs afin de répartir uniformément le poids des couches supérieures
- Tout objets lourd et / ou encombrant doit être placé au fond du carton ou de l'intercalaire afin d'éviter que le poids de ces composants ne repose sur le connecteur (figure 36). La masse maximum autorisée sur le connecteur ne doit pas excéder 20kg ;

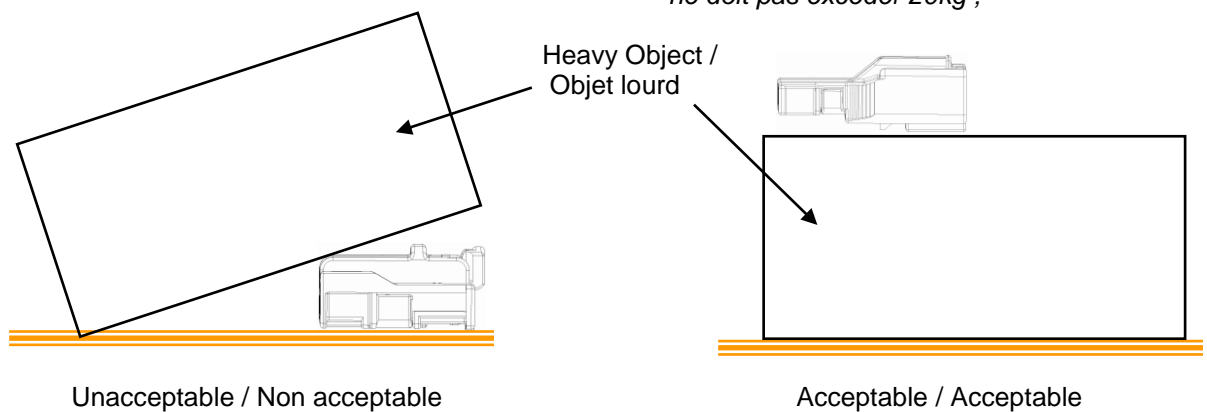


Figure 36 Heavy object positioning / Positionnement des objets lourds

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- A connector shall be positioned outside or in the centre of a harness bundle, in order to prevent the weight of the harness from being applied to the connector;
  - Wire harness bundle size must fit the carton to prevent the shifting of the wire harness during transportation or storage;
  - If the 1.2 NWP connector is 'taped back' on the wire harness bundle, make sure that the locking on the housing or any other flexible part of the connector are positioned away from the wire harness bundle;
  - Extra care should be taken to prevent wire harness from tangling, because entangled, it can damage the connector while removing the wire harness from the carton during vehicle assembly;
  - After any kind of transportation or storage, the connector should be fully checked for damage.
- *Le connecteur doit être positionné à l'extérieur ou au centre du faisceau, afin d'éviter que le poids de ce dernier ne repose sur le connecteur ;*
  - *La dimension du faisceau doit être ajustée au carton afin d'éviter au faisceau de se déplacer lors du transport ou du stockage ;*
  - *Si le connecteur est ensuite fixé par enrubannage sur le faisceau, vérifier que la lance de verrouillage ou tout autre élément flexible du connecteur n'est pas en contact avec le faisceau ;*
  - *Des précautions particulières doivent être prises pour éviter l'enchevêtrement des faisceaux, qui risque d'endommager les connecteurs lorsque le faisceau est ensuite enlevé du carton, sur le site d'assemblage du véhicule ;*
  - *Après transport ou stockage, le connecteur doit être inspecté pour vérifier tout dommage éventuel.*

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### 5.3. Check and control means

#### 5.3.1. Connector condition before testing

Before the testing starts, ensure that appropriate terminals are inserted into a 1.2 NWP connector. It is necessary that TPA is in the set position and CPA remains in pre-set position.

Precautions:

- Trained technicians only should perform the testing.

#### 5.3.2. TPA automatic closing

Figure 37 shows necessary dimensions needed to assemble the interface for the automatic closing of the TPA. For necessary dimensions and tolerances refer to the table below and customer drawings (see 3.1 Customer drawings).

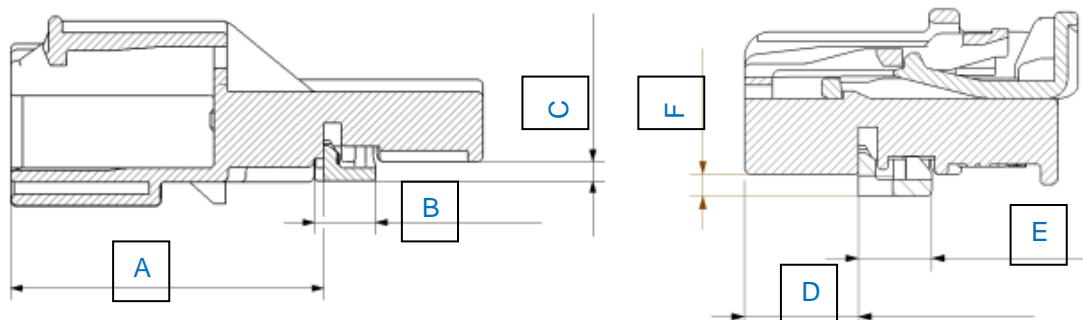


Figure 37 TPA position on 1.2 NWP connector - male and female / Position du double verrouillage latéral pour les connecteurs de la famille 1.2 – PL et PC

### 5.3. Moyens de contrôle

#### 5.3.1. Conditions de test du connecteur

Avant de commencer les tests, s'assurer que les contacts appropriés soient insérés dans le connecteur. Il est nécessaire que le double verrouillage soit fermé et que le CPA soit ouvert.

Précautions :

- Les personnes formées sont les seules à pouvoir faire le test.

#### 5.3.2. Fermeture automatique du DV

Les informations nécessaires pour assembler le double verrouillage en automatique sont présentées en figure 37. Les dimensions pour les connecteurs sont présentées dans le tableau ci-dessous.

Conn	Male / PL	Female / PC
2P	A=26.20mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.075mm
2P 2.8	A=25.35mm	D=12.10mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.175mm
3P	A=26.20mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm
3P HYB	A=25.40mm	D=8.65mm
	B=5.10mm	E=5.55mm
	C=1.75mm	F=1.75mm
4P	A=25.90mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm
4P 2.8 $\triangle_1$	N/A	D=12.10mm
	N/A	E=6.70mm
	N/A	F=1.40mm

Conn	Male / PL	Female / PC
6P	A= 25.90mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm
6P HYB	A=2615mm	D=8.65mm
	B=5.10mm	E=5.55mm
	C=1.75mm	F=1.75mm
6P 2.8 $\triangle_1$	N/A	D=12.10mm
	N/A	E=6.70mm
	N/A	F=1.40mm
8P	A=25.90mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm
8P HYB	A=26.15mm	D=8.65mm
	B=5.10mm	E=5.55mm
	C=1.75mm	F=1.25mm
10P	A=25.90mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm

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12P HYB	A=25.90mm	D=8.65mm
	B=4.85mm	E=5.55mm
	C=1.075mm	F=1.15mm

14P	A=25.90mm	D=8.65mm
	B=4.40mm	E=4.40mm
	C=1.75mm	F=1.75mm

Table 12 Insertion and retention force for terminal's secondary lock devices in their housings / Forces d'insertion et de rétention des double verrouillages dans les boîtiers

Insertion load / Force d'insertion		Retention load / Force de rétention	
Correctly positioned terminals / Contacts correctement positionnés	Min. badly positioned terminals / Contacts mal positionnés [N]	Locked at pre-fitting / Ouverture du DV	Pull out min [N] / Arrachement du DV
Min 20N Max 40N	100	Min 10N Max 30N	100

For electrical test, it is necessary that electrical checker has the interface suitable for connector being tested. For details of the interface between connector and a checker refer to ATTACHMENT 3 – Electrical check pin positioning.

Pour les tests électriques, il est nécessaire que la contrepartie de test ait l'interface correspondante au connecteur testé. Pour les détails de l'interface de position des pointes de test, merci de se référer à l'annexe 3 – Interface des connecteurs.

### 5.3.3. Support areas (clamping)

During electrical test it is not allowed to clamp the locking parts of the connector. Allowed clamping zones are shown on the Figure 38.

### 5.3.3. Zones de maintien

Au cours du test électrique, il n'est pas autorisé de tenir le connecteur sur la zone de verrouillage. Les zones de maintien autorisées sont montrées en figure 38.

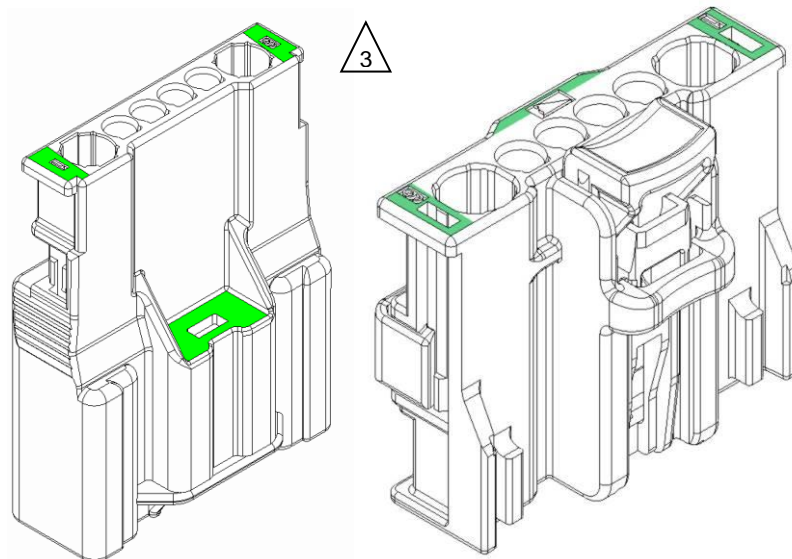


Figure 38 Recommendable clamping zones / Zones de maintien autorisées

With proper terminal insertion, connector can be mated with checker with force less than 5N.

Avec une insertion correcte des contacts, le connecteur peut être accouplé sur la contrepartie avec une force inférieure à 5N.

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### 5.3.4. Testing pin definition

For test pin description, refer to Figure 39 through Figure 46. All tolerances shall be taken from interface drawing and 9 ATTACHMENT 3 – Electrical check pin positioning.

### 5.3.4. Définition de la pointe de test

Pour la description de la pointe de test, se référer aux figures 39 à 46. Toutes les tolérances doivent être prises sur le plan d'interface et 10 ATTACHMENT 3.

#### 5.3.4.1. Electrical control of 1.2 terminals

#### 5.3.4.1. Contrôle électrique des contacts 1.2

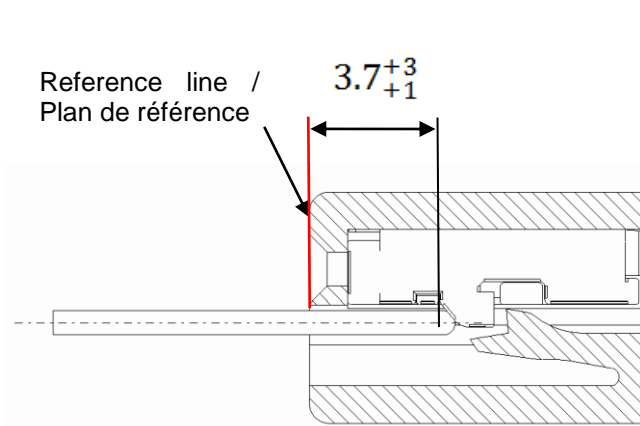


Figure 39 Electrical control of female terminals 1.2 / Contrôle électrique des clips 1.2

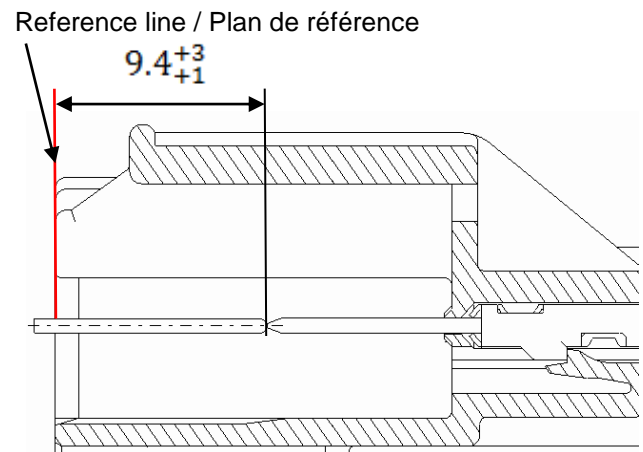


Figure 40 Electrical control of male terminals 1.2 / Contrôle électrique des languettes 1.2

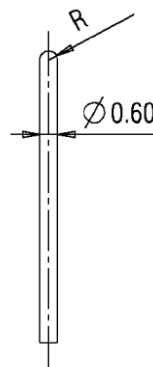


Figure 41 Pin test definition / Définition de la pointe de test

Recommended plating for the probe: gold

Press-on force =  $2N \pm 20\%$

Probe stroke for female (from reference line) = 3.7mm (tolerance +1mm min, +3mm max)

Probe stroke for male (from reference line) = 9.4mm (tolerance +1mm min, +3mm max)

Revêtement recommandé pour la pointe de test : dorure

Force de pression =  $2N \pm 20\%$

Course de la pointe pour un clip (à partir du plan de référence) = 3.7mm (tolérance +1mm min, +3 mm max)

Course de la pointe pour une languette (à partir du plan de référence) = 9.4mm (tolérance +1mm min, +3 mm max)

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1 5.3.4.2. Electrical control of 2.8 terminals

5.3.4.2. Contrôle électrique des contacts 2.8

Reference line / Plan de référence

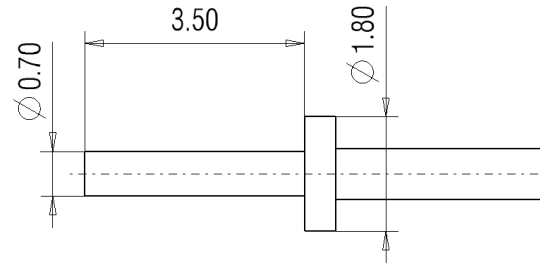
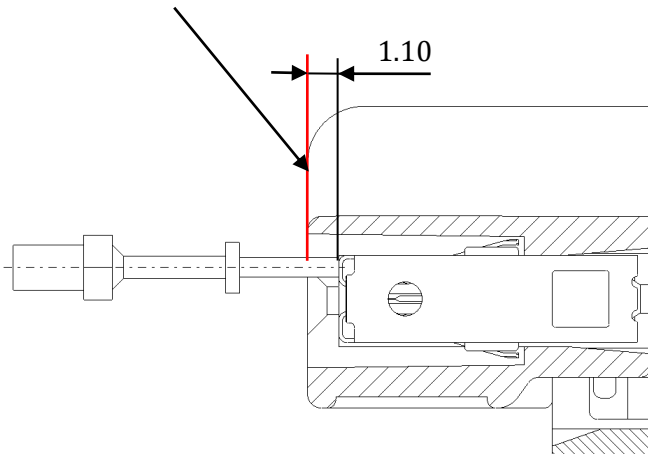


Figure 42 Electrical control of female terminals 2.8 /  
Contrôle électrique des clips 2.8

Figure 43 Pin test definition for F terminals 2.8/  
Définition de la pointe de test des clips 2.8

For 4P 2.8 F RMF connector and 6P 2.8 F RMF connector, the cavities are dislocated (Figure 44), therefore a different pin stroke is required per cavity (for details refer to 3.1 Customer drawings).

Pour les porte-clips 4 voies et 6 voies 2.8, les alvéoles sont décalées (figure 44). Par conséquent, différentes pointes de tests sont nécessaires (pour les détails, se référer au 3.1 Plans Client).

Reference line / Plan de référence

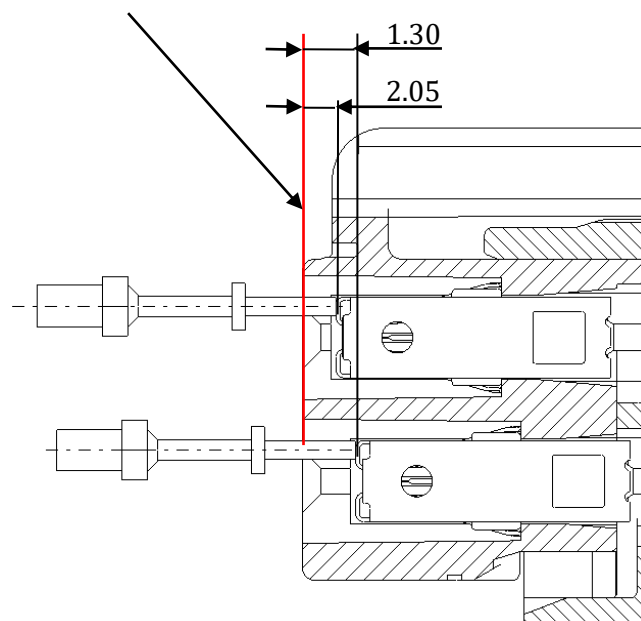


Figure 44 Electrical control of dislocated female terminals 2.8 for 4P 2.8 and 6P 2.8 F connectors / Contrôle électrique des clips 2.8 décalées pour les porte-clips 4 voies 2.8 et 6 voies 2.8

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Reference line / Plan de référence

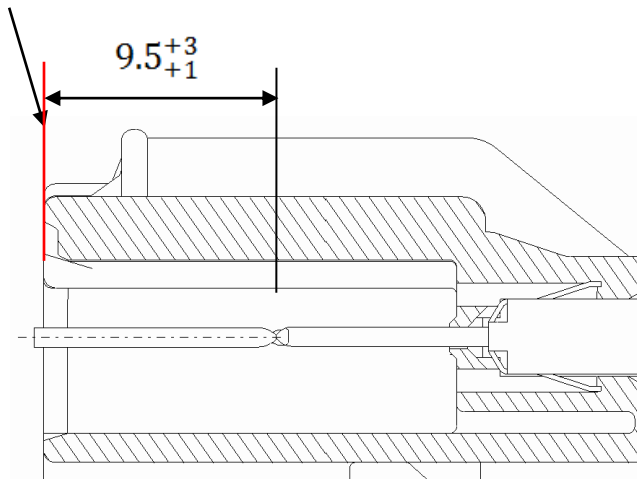


Figure 45 Electrical control of male terminals 2.8 /  
Contrôle électrique des languettes 2.8

Recommended plating for the probe: gold  
Press-on force =  $2N \pm 20\%$   
Probe stroke for male (from reference line) =  
9.5mm (tolerance +1mm min, +3mm max)

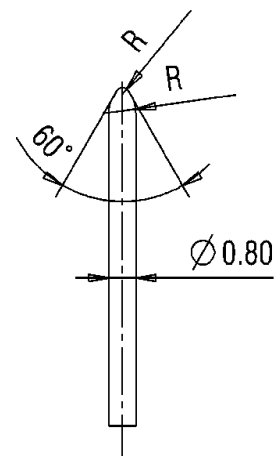


Figure 46 Pin test definition for M terminals 2.8/  
Définition de la pointe de test des languettes 2.8

Revêtement recommandé pour la pointe de test :  
dorure  
Force de pression =  $2N \pm 20\%$   
Course de la pointe pour une languette (à partir du  
plan de référence) = 9.5mm (tolérance +1mm min, +3  
mm max)

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## 5.4. Instructions for removal

### 5.4.1. TPA removal

The following should be done only when removing and/or servicing the terminals in male and female 1.2 NWP connectors.

There is no specific TPA removal tool, so insert a flat head screwdriver, 2.0mm wide and 0.5mm thick, in a space between connector and TPA, for both male and female connectors (Figure 47). All connectors have two TPA removal tool slots marked with a teardrop (♠) each.

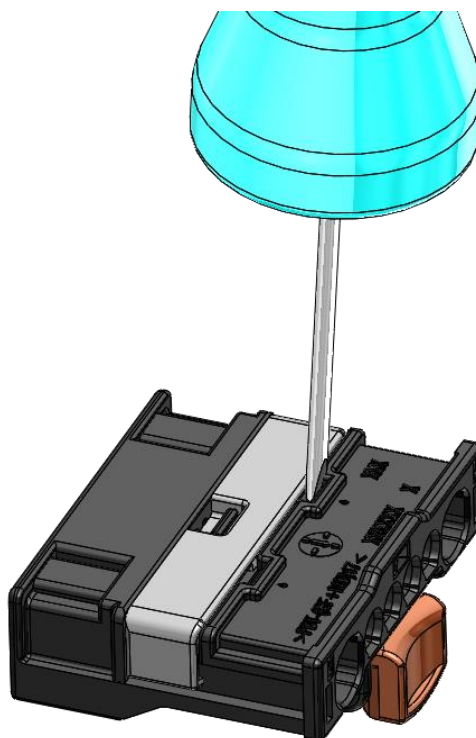


Figure 47 TPA removal - using a flat head screwdriver /

*Ouverture du double verrouillage – utilisation d'un tournevis plat*

Push the tool into the direction of the arrow until the TPA jumps into pre-set position and you hear a CLICK sound, as shown on Figure 48 through Figure 49.

#### Precautions:

- Trained technicians only should perform TPA removal operation.

## 5.4. Préconisations de démontage

### 5.4.1. Ouverture du DV latéral

*Ce qui suit doit être fait uniquement pour retirer et / ou entretenir les contacts des porte clips et porte languettes.*

*Il n'y a pas d'outil spécifique pour ouvrir le double verrouillage, il est possible d'insérer un tournevis plat, d'une largeur de 2.0mm et épaisseur de 0.5 mm, dans l'espace entre le boîtier et le double verrouillage, pour le porte-languettes et le porte-clips (figure 47). Tous les boîtiers ont deux fentes marqués par une goutte d'eau (♠).*

*Pousser l'outil dans la direction de la flèche jusqu'à ce que le double verrouillage s'ouvre et un clic se fasse entendre, comme montré sur les figures 48 à 49.*

#### Précautions:

- *Les personnes formées sont les seules à pouvoir faire l'opération d'ouverture du double verrouillage.*

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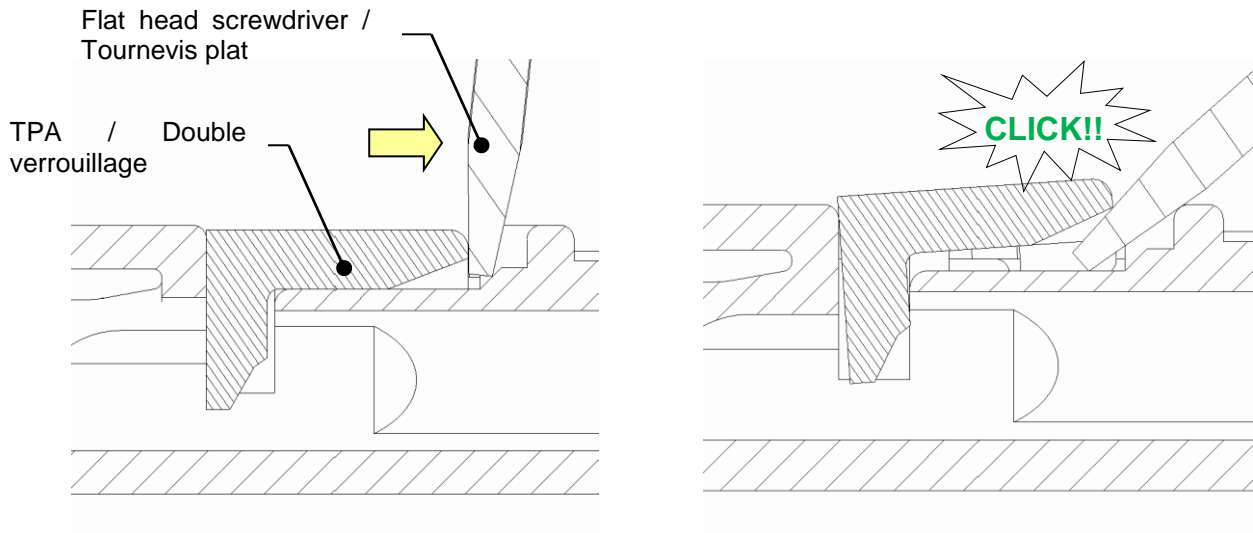


Figure 48 TPA removal (screwdriver) - female / Ouverture du DV (tournevis) – porte-clips

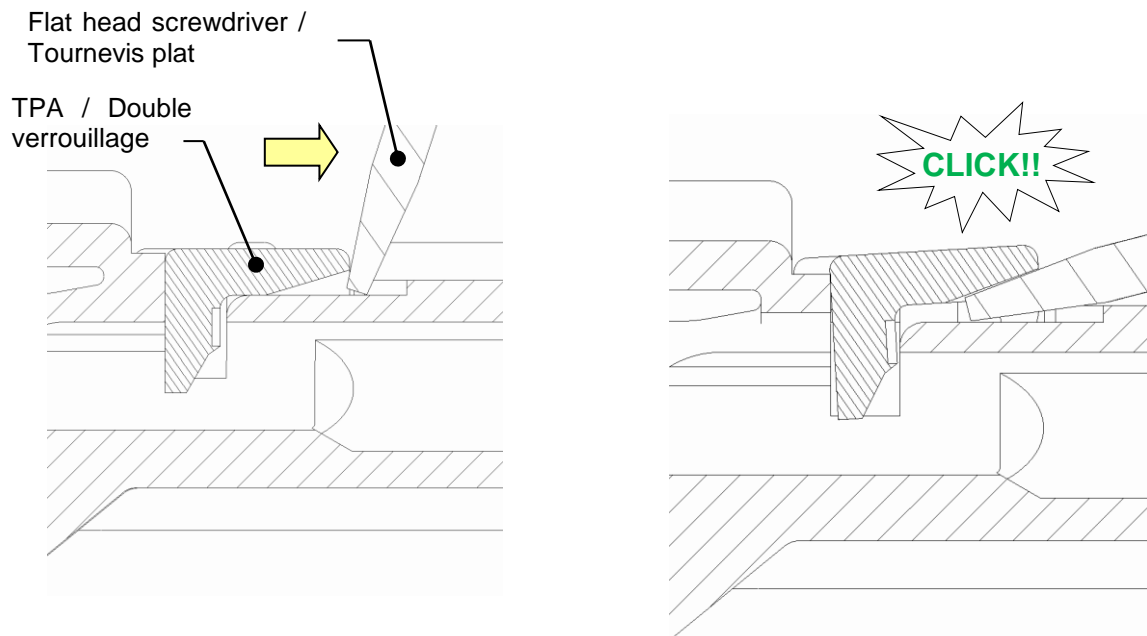


Figure 49 TPA removal (screwdriver) - male / Ouverture du DV (tournevis) – porte-languettes

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## 5.4.2. Terminal extraction

### 5.4.2.1. 1.2 terminal extraction

Before extracting terminals, make sure TPA is in pre-set position, so as not to damage any of the parts.

For 1.2 terminals, removal tool ZDD-15-0045 can be used for both female and male terminals.

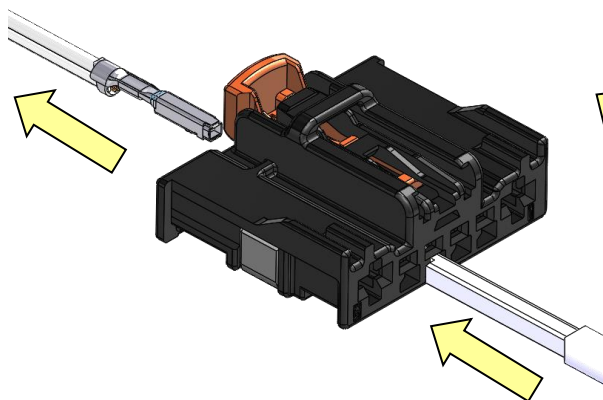


Figure 50 1.2 terminal extraction - female and male connector / Extraction des contacts 1.2 – porte-clips et porte-languettes

Position the removal tool in front of the appropriate cavity as shown on Figure 51 and Figure 52. A chamfer on the removal tool corresponds to a chamfer on the cavity entrance to properly align it with the cavity.

A stopping feature on the tool is added to prevent going too deep into the cavity and possibly damaging it or the terminal inside.

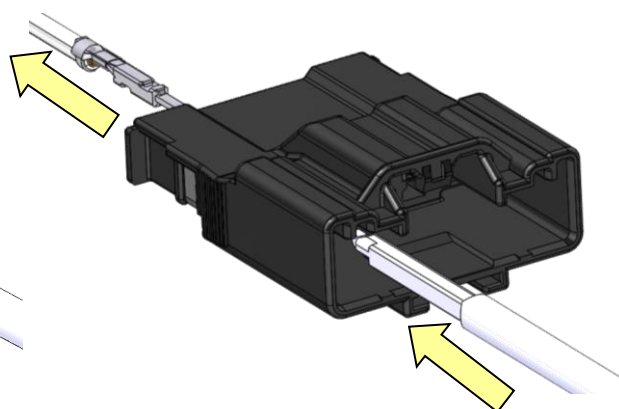
Make sure not to touch a terminal with a removal tool so as not to damage the terminal (Figure 54).

## 5.4.2. Extraction du contact

### 5.4.2.1. Extraction du contact 1.2

Avant d'extraire les contacts, s'assurer que le double verrouillage est en position ouvert, pour ne pas endommager les pièces.

Pour les contacts 1.2, l'outil ZDD-15-0045 peut être utilisé pour les clips et les languettes.



Positionner l'outil en face de la cavité appropriée comme montré en figures 51 et 52. Un chanfrein sur l'outil correspond à un chanfrein sur la cavité afin d'aligner l'outil et la cavité.

Un élément a été ajouté sur l'outil pour l'arrêter et l'empêcher de pénétrer trop en profondeur dans la cavité afin d'éviter un possible endommagement des contacts.

S'assurer de ne pas toucher les contacts avec l'outil afin de ne pas les endommager (figure 54).

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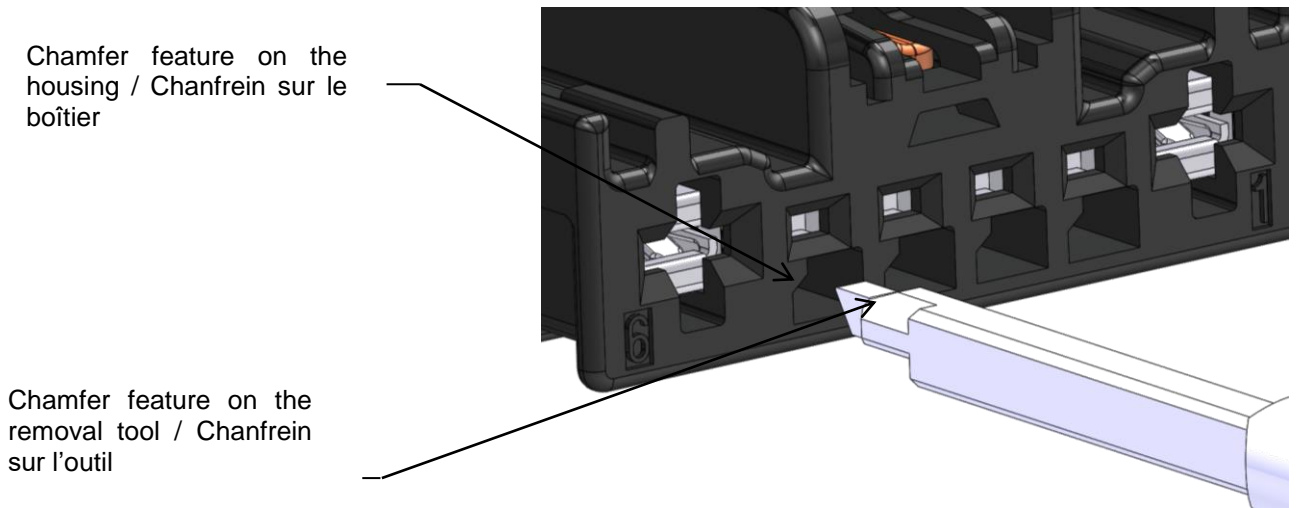


Figure 51 1.2 removal tool alignment with the 1.2 cavity – female connector/ Alignement de l'outil avec la cavité – porte-clips

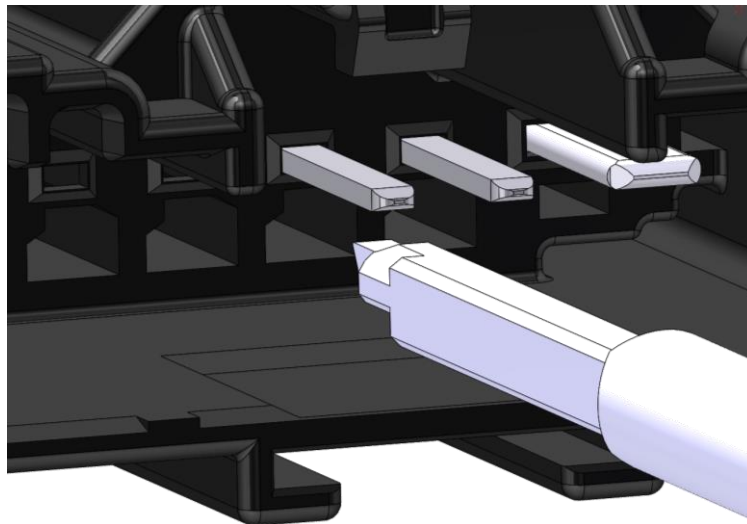


Figure 52 1.2 removal tool alignment with the 1.2 cavity – male connector / Alignement de l'outil avec la cavité – porte-languettes

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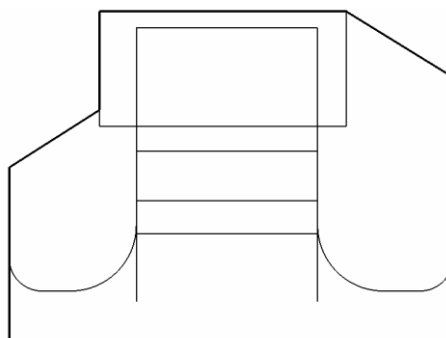


Figure 53 Shape of a 1.2 cavity entry / *Forme de l'entrée de la cavité*

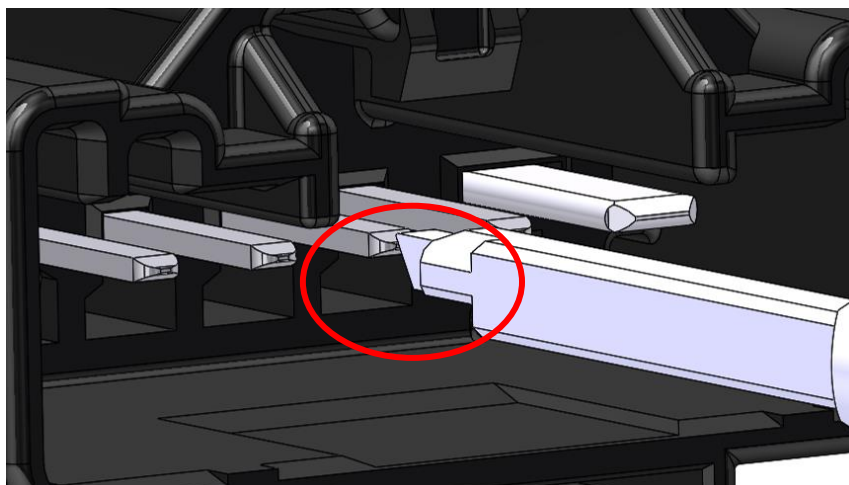


Figure 54 1.2 removal tool in contact with terminal - unacceptable / *Outil d'extraction en contact avec le contact – Non acceptable*

Make sure the terminal wire is completely forward in the cavity, by pushing it lightly inside, in order to release the contact between cavity lance and the terminal a bit.

*S'assurer que le contact soit complètement en avant dans la cavité, en poussant légèrement le fil, afin de libérer les contraintes entre la lance primaire et le contact.*

When the removal tool is positioned and properly aligned with bottom surface (Figure 55 and Figure 56), push it between the terminal and the cavity lance so that the lance bends down and releases the terminal. Slide the removal tool along the bottom surface to avoid any damage to the terminal.

*Lorsque l'outil de retouche est positionné et correctement aligné avec la surface inférieure (figures 55 et 56), l'introduire entre le contact et la lance primaire afin de baisser la lance et libérer le contact. Faire glisser l'outil le long de la surface inférieure afin de ne pas endommager le contact.*

While the cavity lance is deflected, pull the wire to remove the terminal from the cavity. If the terminal does not disengage easily from the housing, it is possible the TPA is not in pre-set. Start the operation from the beginning.

*Lorsque la lance est défléchie, tirer sur le fil afin d'extraire le contact. Si le contact ne sort pas facilement, c'est peut-être parce que le double verrouillage n'est pas ouvert. Recommencer l'opération depuis le début.*

During terminal extraction, pull the terminals in a straight line out and carefully not to damage them or the cavity.

*Lors de l'extraction du contact, tirer doucement et tout droit sur les contacts afin de ne pas les endommager ou abîmer l'alvéole.*

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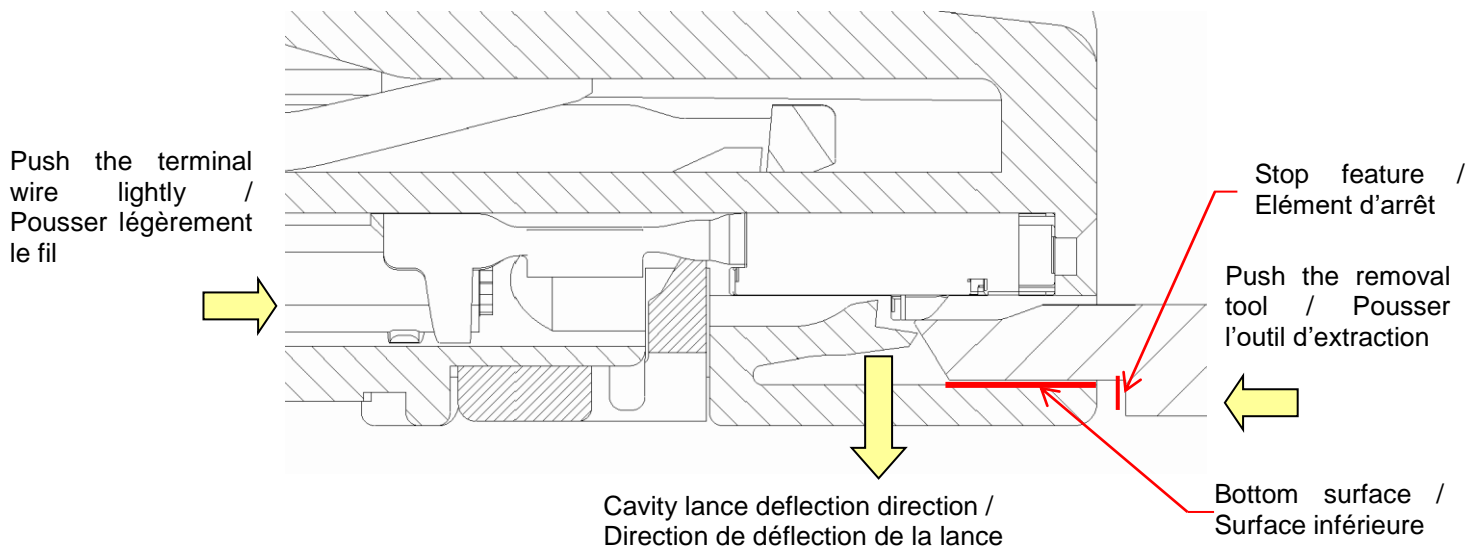


Figure 55 1.2 cavity lance release – female connector / libération de la lance de l'alvéole – porte-clips

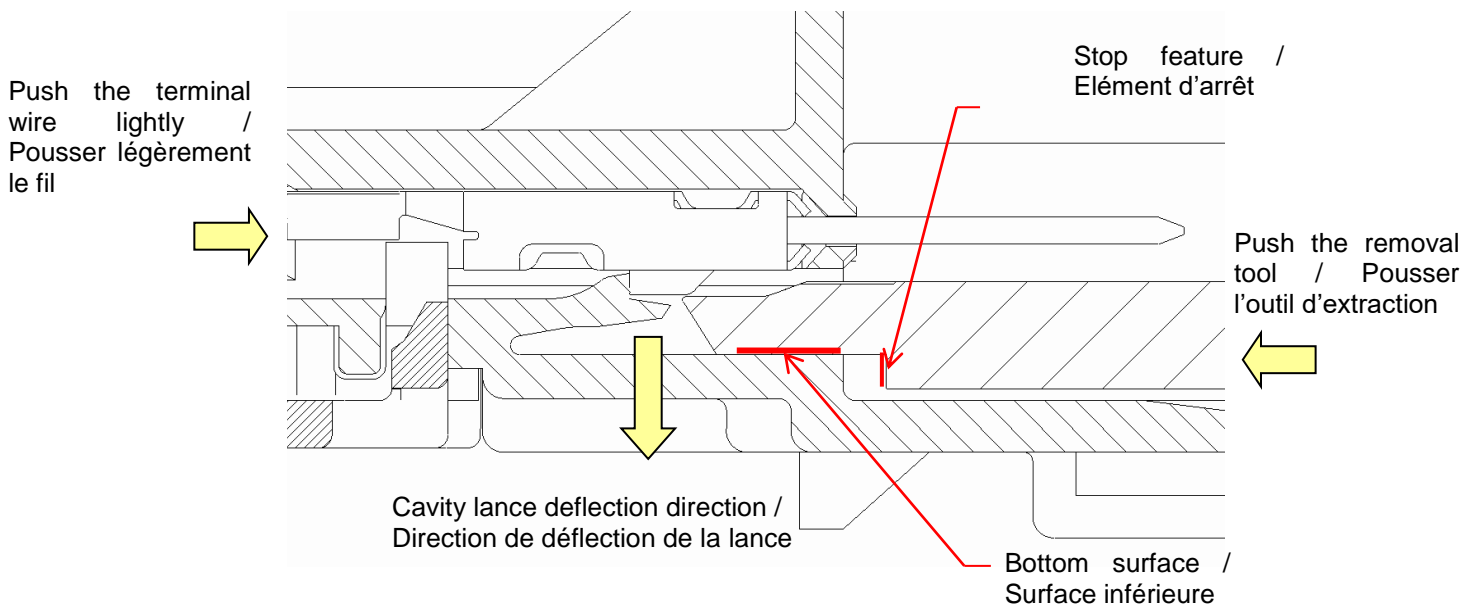


Figure 56 1.2 cavity lance release – male connector / libération de la lance de l'alvéole – porte-languettes

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Precautions:

- Trained technicians only should perform terminal extraction. Operating inside a terminal cavity by personnel not familiar with the terminal extraction process could result in damage of the terminal and/or connector;
- Make sure the orientation of the removal tool is in accordance with the Handling manual;
- If the terminal wire cannot be pulled out easily, do not try pulling it out using force. Instead, start the procedure again and make sure all the necessary pre-steps are taken;
- If there is any visible damage on an extracted terminal or a housing, replace it with a new one;
- A single terminal can be inserted the maximum of 4 times and removed the maximum of 3 times. After that, the terminal or the housing may become damaged.

Précautions :

- *Les personnes formées sont les seules à pouvoir faire l'extraction des contacts. Si cette opération est faite par du personnel non qualifié, l'extraction des contacts peut endommager le contact ou le connecteur;*
- *S'assurer de la bonne orientation de l'outil conformément au manuel d'instruction;*
- *Si le contact ne peut pas être retiré facilement, ne pas forcer. Recommencer depuis le début et s'assurer que toutes les étapes ont bien été prises en compte;*
- *Si un contact ou un boîtier est endommagé, le remplacer par un nouveau;*
- *Un contact peut être inséré 4 fois maximum et enlevé 3 fois maximum. Après, le contact ou le boîtier peut être endommagé.*

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#### 5.4.2.2. 2.8 terminal extraction

Before extracting terminals, make sure TPA is in pre-set position, so as not to damage any of the parts.

For 2.8 terminals, removal tool 6 590 18 00 can be used for both female and male terminals.

#### 5.4.2.2. Extraction des contacts 2.8

Avant d'extraire les contacts, s'assurer que le double verrouillage est en position ouvert, pour ne pas endommager les pièces.

Pour les contacts 2.8, l'outil de démontage 6 590 18 00 peut être utilisé pour les clips et les languettes.

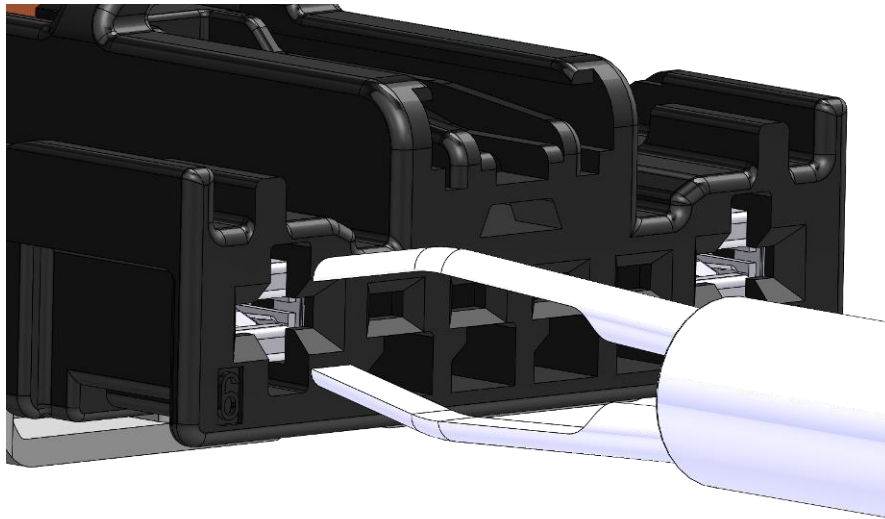


Figure 57 2.8 terminal extraction - female connector / Extraction des contacts 2.8 – porte-clips

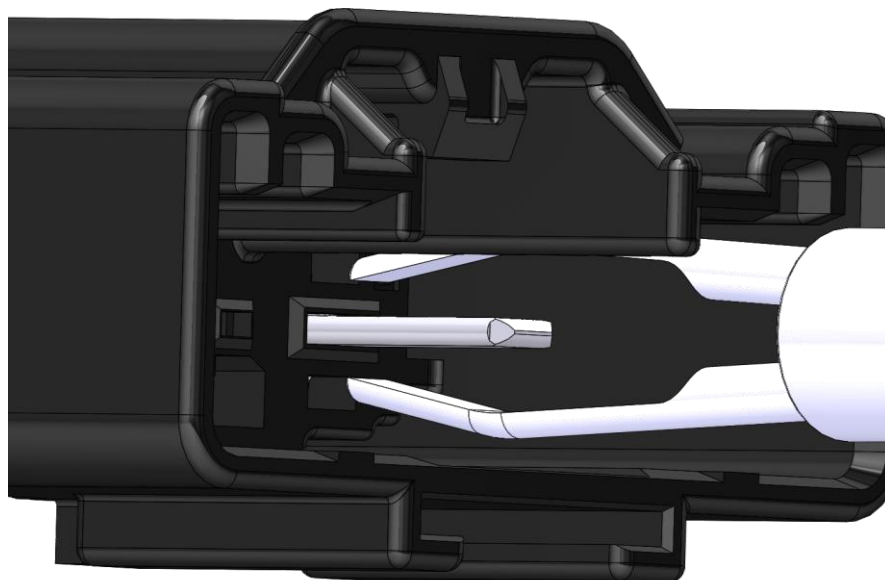


Figure 58 2.8 terminal extraction - male connector / Extraction des contacts 2.8 – porte-languettes

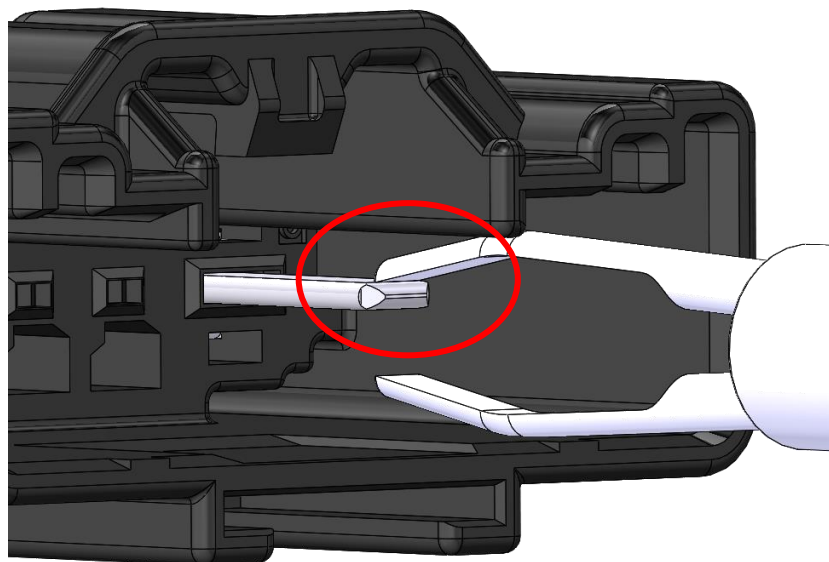
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Position the removal tool in front of the appropriate cavity as shown on Figure 57 and Figure 58.

*Positionner l'outil en face de la cavité appropriée comme montré en figures 57 et 58.*

Make sure not to touch a terminal with a removal tool so as not to damage the terminal (Figure 59).

*S'assurer de ne pas toucher les contacts avec l'outil afin de ne pas les endommager (figure 59).*



*Figure 59 2.8 removal tool in contact with terminal - unacceptable / Outil d'extraction en contact avec le contact – non acceptable*

Make sure the terminal wire is completely forward in the cavity, by pushing it lightly inside, in order to release the contact between the cavity and the terminal a bit.

*S'assurer que le contact soit complètement en avant dans la cavité, en poussant légèrement le fil, afin de libérer les contraintes entre la lance primaire et le contact.*

When the removal tool is positioned and properly aligned with a 2.8 cavity (Figure 60 and Figure 61), push it inside the cavity to bend the terminal lance.

*Lorsque l'outil de retouche est positionné et correctement aligné avec l'alvéole 2.8 (figures 60 et 61), l'introduire dans l'alvéole afin de défléchir les lances du contact.*

While the terminal lance is deflected, pull the wire to remove the terminal from the cavity. If the terminal does not disengage easily from the housing, it is possible the TPA is not in pre-set. Start the operation from the beginning.

*Lorsque la lance est défléchie, tirer sur le fil afin d'extraire le contact. Si le contact ne sort pas facilement, c'est peut-être parce que le double verrouillage n'est pas ouvert. Recommencer l'opération depuis le début.*

During terminal extraction, pull the terminals in a straight line out and carefully not to damage them or the cavity.

*Lors de l'extraction du contact, tirer doucement et tout droit sur les contacts afin de ne pas les endommager ou abîmer l'alvéole.*

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Terminal lance deflection direction /  
 Direction de déflexion de la lance du  
 contact

Push the terminal  
 wire lightly /  
 Pousser légèrement  
 le fil

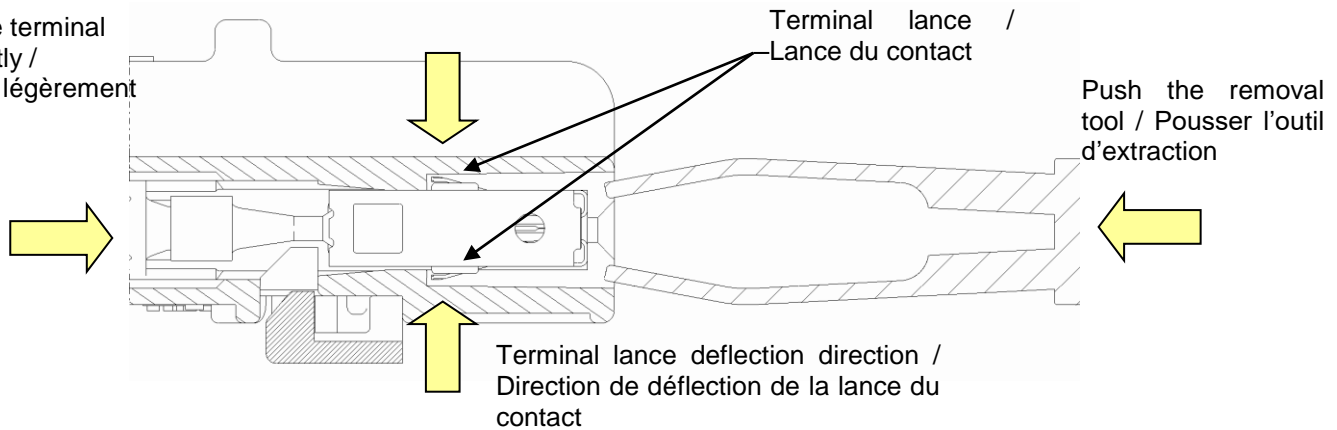


Figure 60 2.8 removal tool with 2.8 cavity alignment - female connector / Alignement de l'outil d'extraction des contacts 2.8 avec l'alvéole - porte-clips

Terminal lance  
 deflection direction /  
 Direction de déflexion  
 de la lance du contact

Terminal lance /  
 Lance du contact

Push the removal  
 tool / Pousser l'outil  
 d'extraction

Push the terminal  
 wire lightly /  
 Pousser légèrement  
 le fil

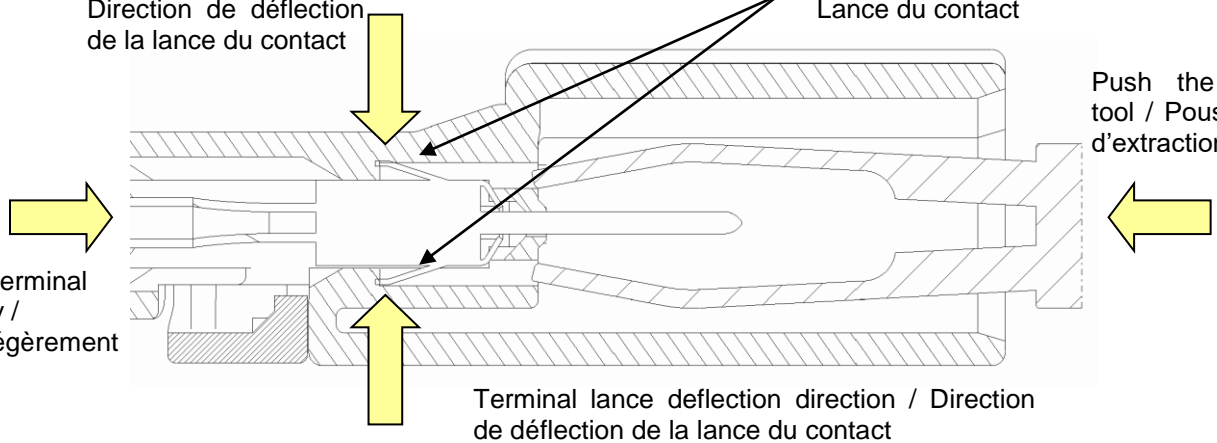


Figure 61 2.8 removal tool with 2.8 cavity alignment - male connector / Alignement de l'outil d'extraction des contacts 2.8 avec l'alvéole - porte-languettes

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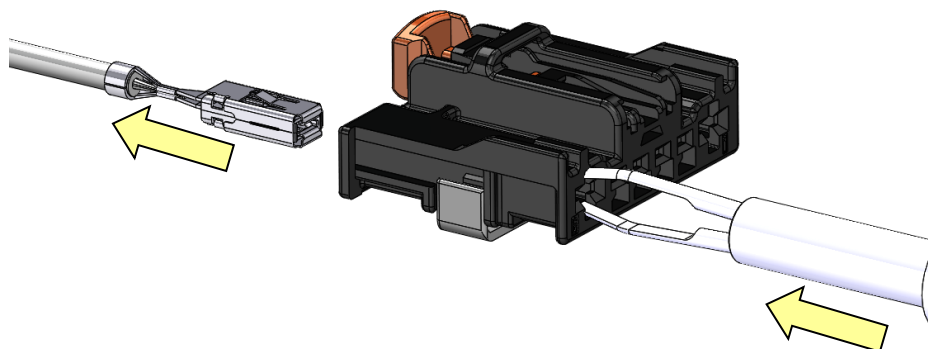


Figure 62 2.8 terminal extraction - female connector / Extraction des contacts 2.8 – porte-clips

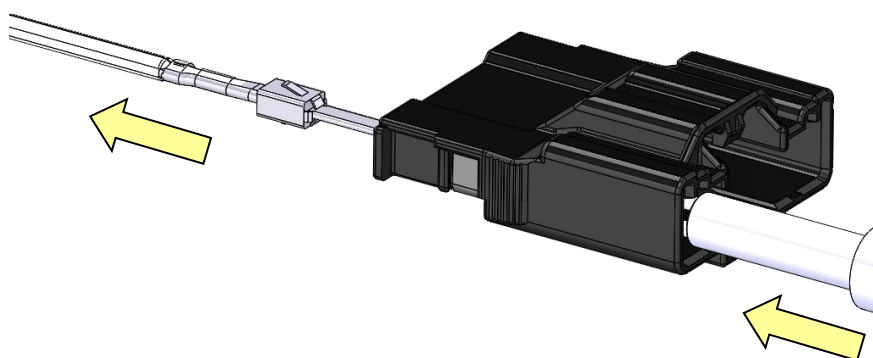


Figure 63 2.8 terminal extraction - male connector / Extraction des contacts 2.8 – porte-languettes

**Precautions:**

- Trained technicians only should perform terminal extraction. Operating inside a terminal cavity by personnel not familiar with the terminal extraction process could result in damage of the terminal and/or connector;
- Make sure the orientation of the removal tool is in accordance with the Handling manual;
- If the terminal wire cannot be pulled out easily, do not try pulling it out using force. Instead, start the procedure again and make sure all the necessary pre-steps are taken;
- If there is any visible damage on an extracted terminal or a housing, replace it with a new one;
- A single terminal can be inserted the maximum of 4 times and removed the maximum of 3 times. After that, the terminal or the housing can be damaged.

**Précautions :**

- *Les personnes formées sont les seules à pouvoir faire l'extraction des contacts. Si cette opération est faite par du personnel non qualifié, l'extraction des contacts peut endommager le contact ou le connecteur;*
- *S'assurer de la bonne orientation de l'outil conformément au manuel d'instruction;*
- *Si le contact ne peut pas être retiré facilement, ne pas forcer. Recommencer depuis le début et s'assurer que toutes les étapes ont bien été prises en compte;*
- *Si un contact ou un boîtier est endommagé, le remplacer par un nouveau;*
- *Un contact peut être inséré 4 fois maximum et enlevé 3 fois maximum. Après, le contact ou le boîtier peut être endommagé.*

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## 6. Instructions for 1.2 NWP connector mating and un-mating

### 6.1. Connector mating

In the following are the steps necessary to mate 1.2 NWP connector:

Both male and female systems have to be fully equipped with appropriate terminals, TPA must be in set position, and CPA in pre-set position;  
 Connectors 4P 2.8 and 6P 2.8 have only female sides, which mate to appropriate unit sides – 4P 2.8 and 6P 2.8 interfaces.

1

Align male (interface) and female connector as shown on Figure 64 and Figure 65;

Move the female connector straight in the direction of the arrow in Figure 65 until a CLICK sound is heard – the lock is now engaged;

When male and female sides are fully mated and locked, push the CPA from pre-set to set position until a CLICK sound is heard. This action disables locking arm from bending, thus preventing disconnection between male and female side;

If male and female sides are not fully mated and locked, it is not possible to push the CPA from pre-set to set position;

Pull on the both male and female connector lightly to confirm a secure locking.

## 6. Instructions pour l'accouplement et le désaccouplement des connecteurs de la famille 1.2 non-étanche

### 6.1. Accouplement des connecteurs

Voici les étapes nécessaires pour accoupler les connecteurs de la famille 1.2 :

Les deux boîtiers doivent être équipés de leurs contacts, les double verrouillages doivent être fermés et le CPA doit être ouvert ;

1

Les connecteurs 4P 2.8 et 6P 2.8 ont uniquement des porte-clips, qui s'adaptent aux Interfaces 4P 2.8 et 6P 2.8 ;

Aligner les porte-clips et porte-languettes comme montré en figure 64 et 65

Avancer le porte-clips dans la direction de la flèche de la figure 65 jusqu'à entendre un clic – le verrouillage est engagé ;

Lorsque le PC et le PL sont complètement accouplés et verrouillés, fermer le CPA jusqu'à entendre un clic. Cette action bloque le bras de verrouillage et empêche ainsi le désaccouplement entre PC et PL ;

Si les PC et PL ne sont pas accouplés jusqu'au bout et verrouillés, il n'est pas possible de fermer le CPA ;

Tirer légèrement sur le PC et le PL pour confirmer le verrouillage.

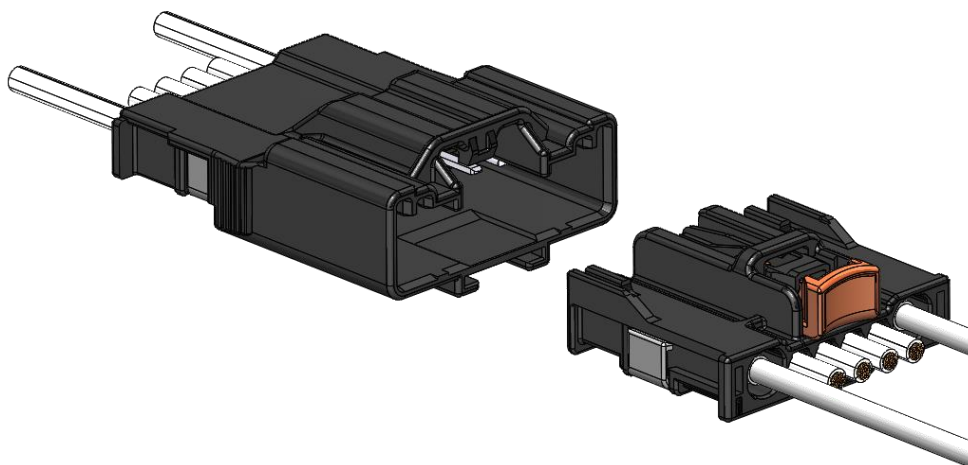


Figure 64 Alignment of male and female connector / Alignement du PC et du PL

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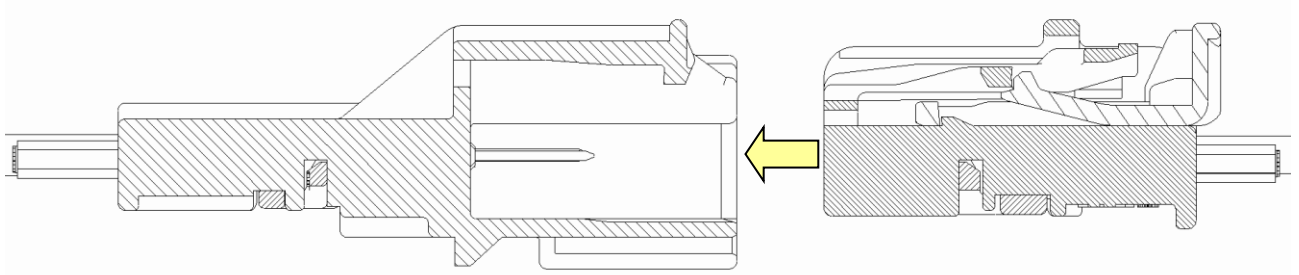


Figure 65 Alignment of male and female connector / Alignement du PC et du PL

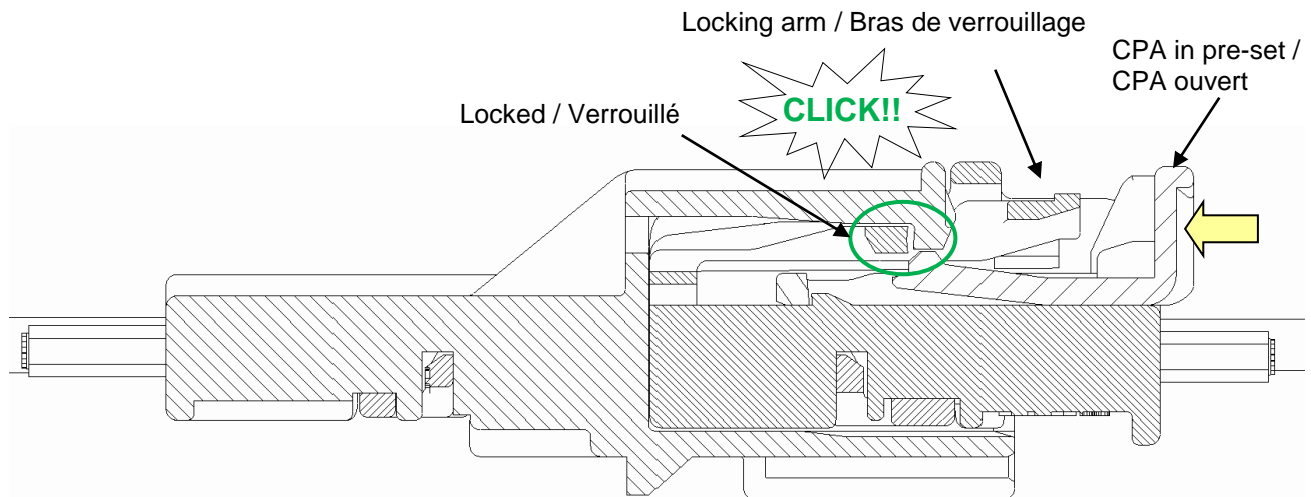


Figure 66 Connector mated and locked / Connecteurs accouplés et verrouillés

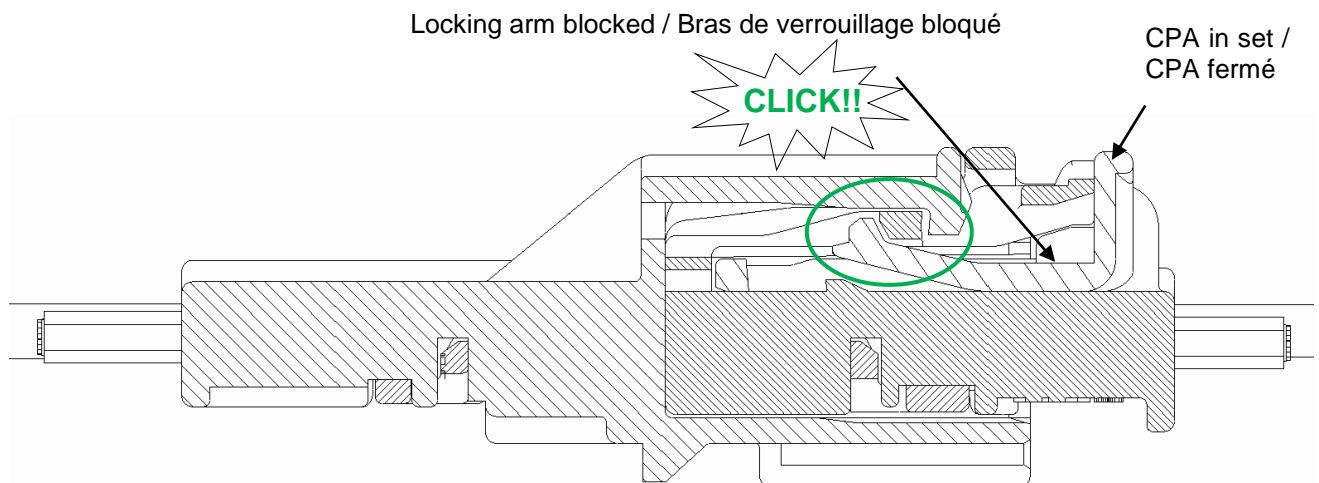


Figure 67 CPA activated / CPA activé

**Precautions:**

- Do not wrench when mating the connector;
- Do not hold the pre-set – set features of the CPA during mating.

**Précautions :**

- Ne pas tordre les connecteurs lors de leur accouplement
- Ne pas tenir le CPA lors de l'accouplement

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## 6.2. Connector un-mating

In the following are the steps necessary to un-mate 1.2 NWP connector:

- Push the CPA from set to pre-set position (Figure 68). CPA deactivating force, according to PSA specification, is between 10N to 30N;
- Push the locking arm on the female connector in direction of the arrow as shown on Figure 69 to disengage the locking between male and female side;
- While pushing the locking arm, pull the female connector away from the male counterpart to un-mate them.

## 6.2. Désaccouplement des connecteurs

Voici les étapes nécessaires pour désaccoupler les connecteurs :

- Ouvrir le CPA (figure 68). La force de désactivation du CPA, suivant la spécification PSA, est comprise entre 10N et 30N ;
- Appuyer sur la lance du porte-clips en direction de la flèche montrée en figure 66 pour désengager le verrouillage inter-boîtier ;
- Après avoir appuyé sur la lance, tirer sur le porte-clips pour le désaccoupler de sa contrepartie.

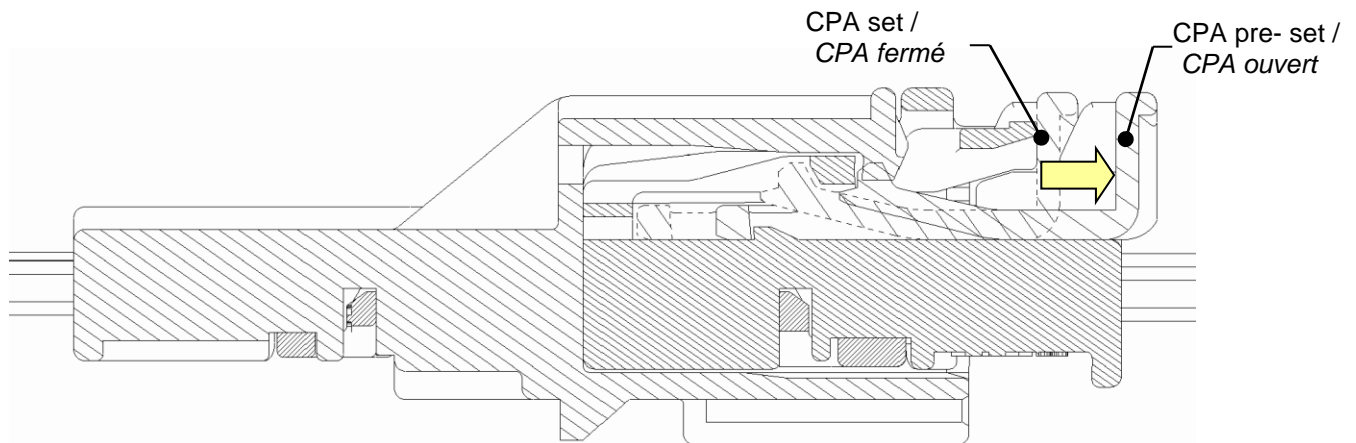


Figure 68 CPA from set to pre-set position / Ouverture du CPA

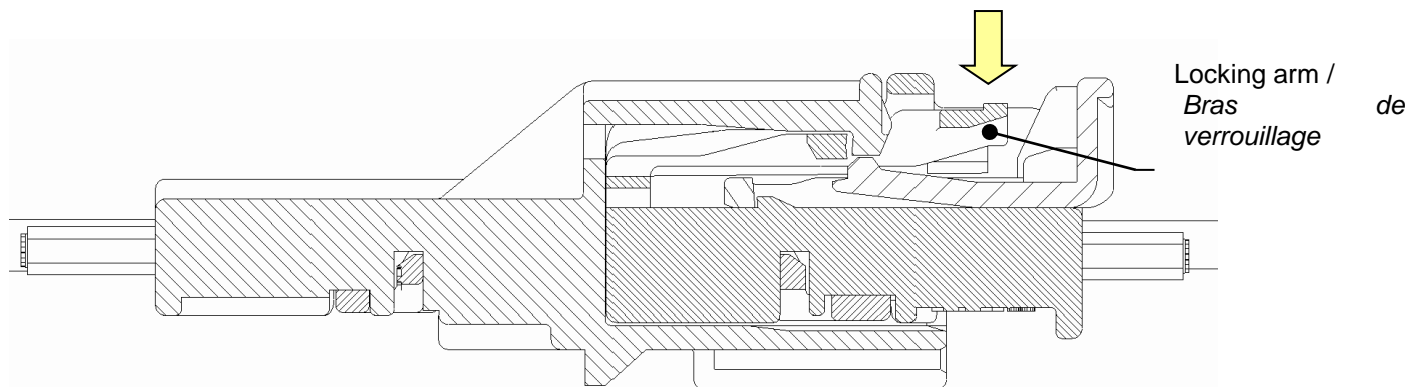


Figure 69 Locking arm activation / Activation du bras de verrouillage

### Precautions:

- Do not pull the connectors by the wire

### Précautions :

- Ne pas tirer les connecteurs par les fils

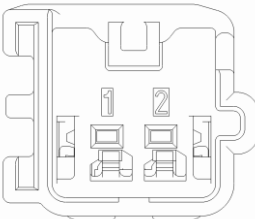
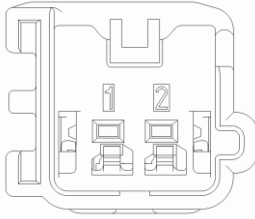
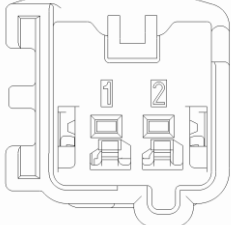
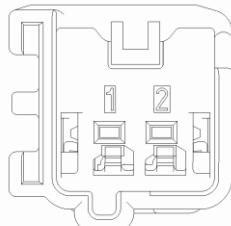
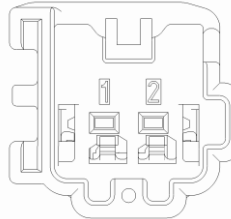
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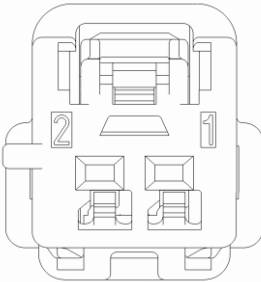
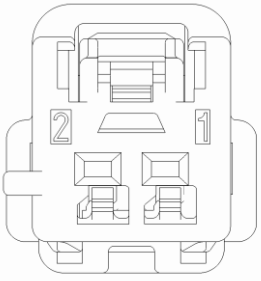
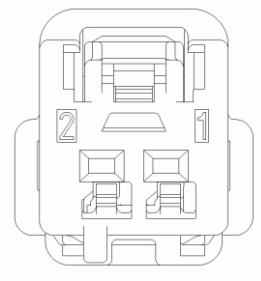
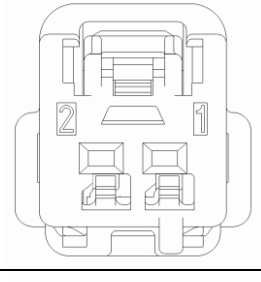
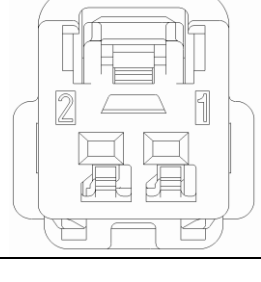
## 7. ATTACHMENT 1

### 7. ANNEXE 1

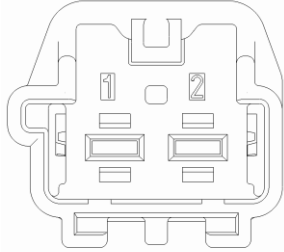
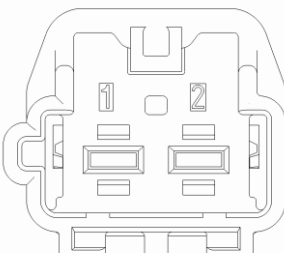
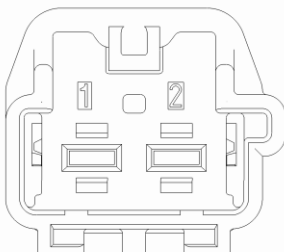
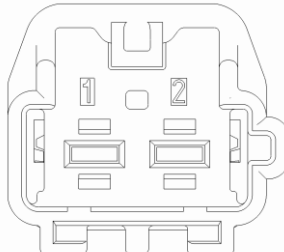
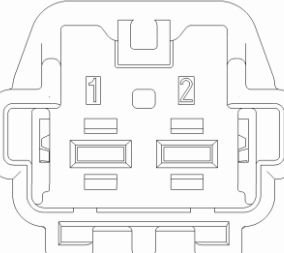
Subassembly part numbers with related parts:  
Références sous-ensembles et pièces associées:

YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7817-30 (9817860580) 2P 1.2 NWP system connector male subassembly CODE A	7188-7817-30 2P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7818-60 (9825399080) 2P 1.2 NWP system connector male subassembly CODE B	7188-7818-60 2P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7819-90 (9825402280) 2P 1.2 NWP system connector male subassembly CODE C	7188-7819-900 2P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7820-80 (9825402780) 2P 1.2 NWP system connector male subassembly CODE D	7188-7820-80 2P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7816-20 (9825402980) 2P 1.2 NWP system connector male subassembly CODE 0	7188-7816-20 2P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>

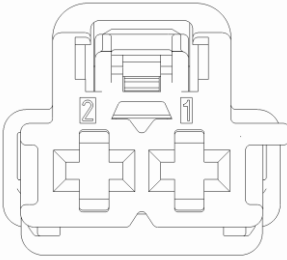
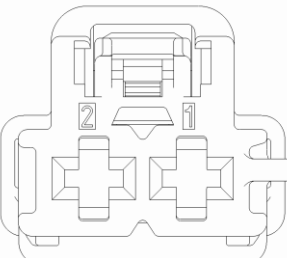
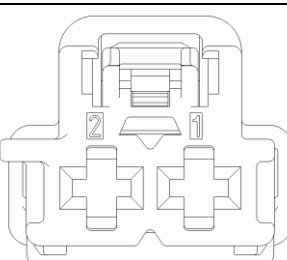
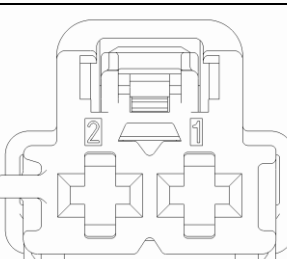
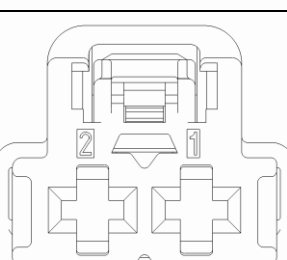
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7289-7812-30 (9817860280) 2P 1.2 NWP system connector female subassembly CODE A	7189-7812-30 2P 1.2 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7813-60 (9825325380) 2P 1.2 NWP system connector female subassembly CODE B	7189-7813-60 2P 1.2 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7814-90 (9825325480) 2P 1.2 NWP system connector female subassembly CODE C	7189-7814-90 2P 1.2 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7815-80 (9825325580) 2P 1.2 NWP system connector female subassembly CODE D	7189-7815-80 2P 1.2 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7811-20 (9825325780) 2P 1.2 NWP system connector female subassembly CODE 0	7189-7811-20 2P 1.2 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1395 2P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

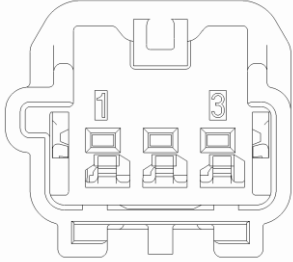
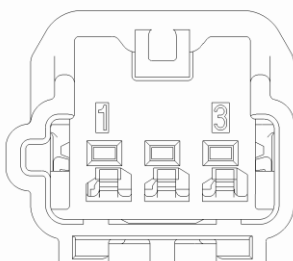
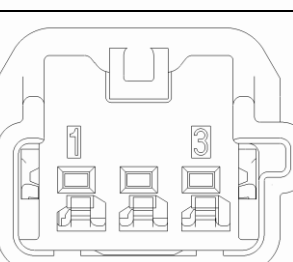
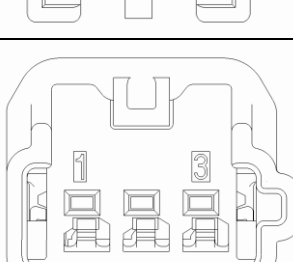
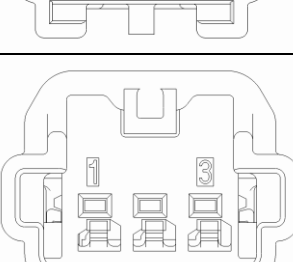
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7288-7873-30 2P 2.8 NWP system connector male subassembly CODE A	7188-7873-30 2P 2.8 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7874-60 2P 2.8 NWP system connector male subassembly CODE B	7188-7874-60 2P 2.8 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7875-90 2P 2.8 NWP system connector male subassembly CODE C	7188-7875-90 2P 2.8 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7876-80 2P 2.8 NWP system connector male subassembly CODE D	7188-7876-80 2P 2.8 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7872-20 2P 2.8 NWP system connector male subassembly CODE 0	7188-7872-20 2P 2.8 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
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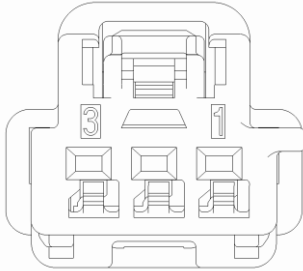
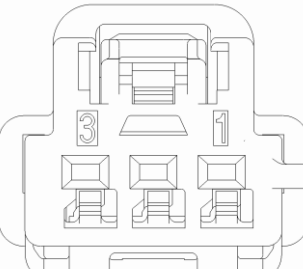
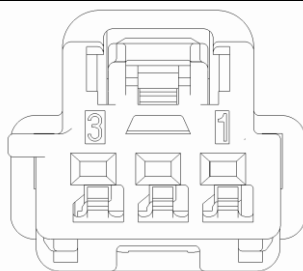
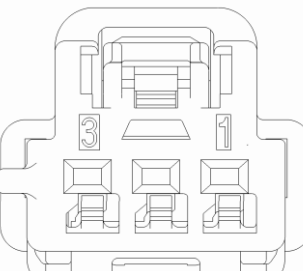
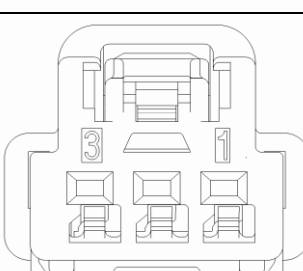
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7289-7858-30 2P 2.8 NWP system connector female subassembly CODE A	7189-7858-30 2P 2.8 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7859-60 2P 2.8 NWP system connector female subassembly CODE B	7189-7859-60 2P 2.8 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7860-90 2P 2.8 NWP system connector female subassembly CODE C	7189-7860-90 2P 2.8 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7861-80 2P 2.8 NWP system connector female subassembly CODE D	7189-7861-80 2P 2.8 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7857-20 2P 2.8 NWP system connector female subassembly CODE 0	7189-7857-20 2P 2.8 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1399 2P 2.8 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

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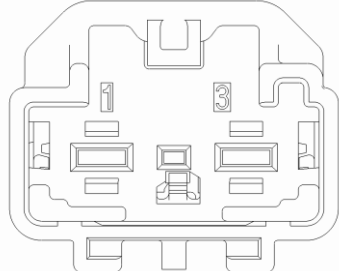
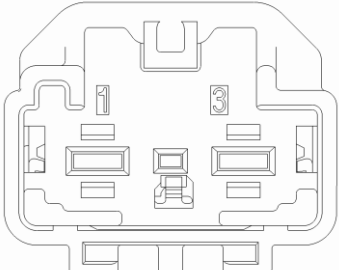
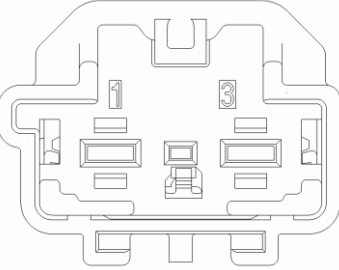
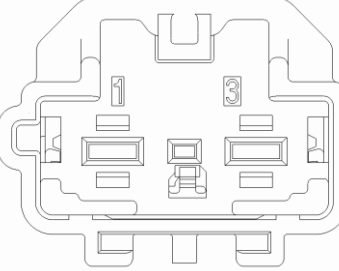
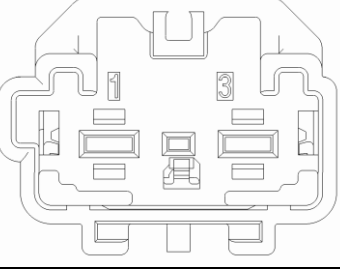
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7288-7832-30 3P 1.2 NWP system connector male subassembly CODE A	7188-7832-30 3P 1.2 NWP system M housing CODE A  7172-1396 3P 1.2 NWP system M/F side spacer		PBT-(GF+MD)17 [Black] [Noir]  PBT-GF30 [White] [Blanc]
7288-7833-60 3P 1.2 NWP system connector male subassembly CODE B	7188-7833-60 3P 1.2 NWP system M housing CODE B  7172-1396 3P 1.2 NWP system M/F side spacer		PBT-(GF+MD)17 [Green] [Vert]  PBT-GF30 [White] [Blanc]
7288-7834-90 3P 1.2 NWP system connector male subassembly CODE C	7188-7834-90 3P 1.2 NWP system M housing CODE C  7172-1396 3P 1.2 NWP system M/F side spacer		PBT-(GF+MD)17 [Blue] [Bleu]  PBT-GF30 [White] [Blanc]
7288-7835-803P 1.2 NWP system connector male subassembly CODE D	7188-7835-80 3P 1.2 NWP system M housing CODE D  7172-1396 3P 1.2 NWP system M/F side spacer		PBT-(GF+MD)17 [Brown] [Marron]  PBT-GF30 [White] [Blanc]
7288-7831-20 3P 1.2 NWP system connector male subassembly CODE 0	7188-7831-20 3P 1.2 NWP system M housing CODE 0  7172-1396 3P 1.2 NWP system M/F side spacer		PBT-(GF+MD)17 [Purple] [Violet]  PBT-GF30 [White] [Blanc]

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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7822-30 3P 1.2 NWP system connector female subassembly CODE A	7189-7822-30 3P 1.2 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1396 3P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7823-60 3P 1.2 NWP system connector female subassembly CODE B	7189-7823-60 3P 1.2 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1396 3P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7824-90 3P 1.2 NWP system connector female subassembly CODE C	7189-7824-90 3P 1.2 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1396 3P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7825-80 3P 1.2 NWP system connector female subassembly CODE D	7189-7825-80 3P 1.2 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1396 3P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7821-20 3P 1.2 NWP system connector female subassembly CODE 0	7189-7821-20 3P 1.2 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1396 3P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

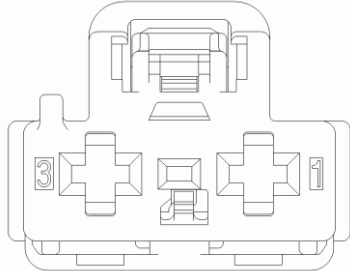
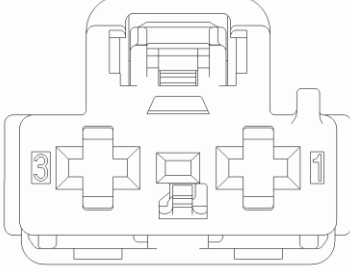
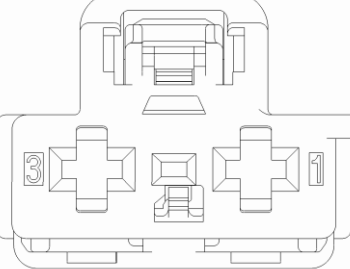
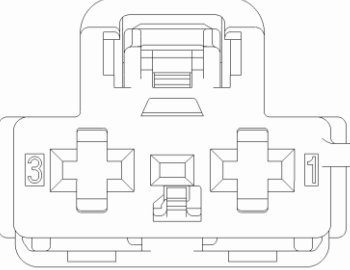
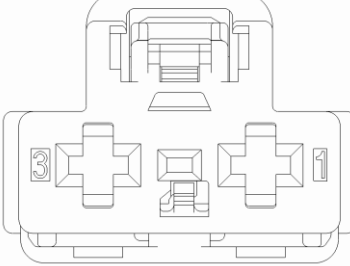
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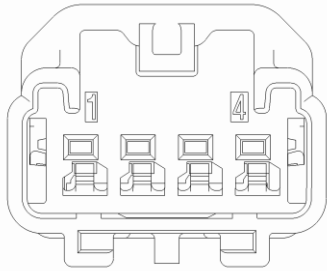
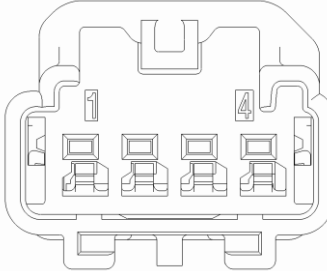
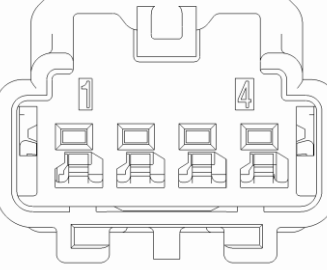
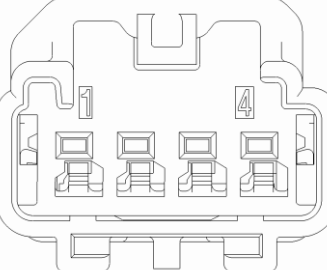
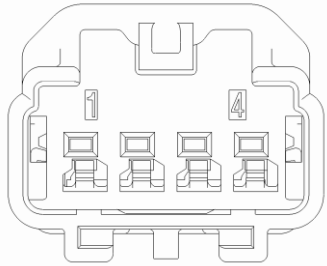
YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7853-30 3P HYB NWP system connector male subassembly CODE A	7188-7853-30 3P HYB NWP system M housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1401 3P HYB NWP system M side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7854-60 3P HYB NWP system connector male subassembly CODE B	7188-7854-60 3P HYB NWP system M housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1401 3P HYB NWP system M side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7855-90 3P HYB NWP system connector male subassembly CODE C	7188-7855-90 3P HYB NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1401 3P HYB NWP system M side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7856-80 3P HYB NWP system connector male subassembly CODE D	7188-7856-80 3P HYB NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1401 3P HYB NWP system M side spacer		PBT-GF30 [White] <i>[Blanc]</i>
7288-7852-20 3P HYB NWP system connector male subassembly CODE 0	7188-7852-20 3P HYB NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1401 3P HYB NWP system M side spacer		PBT-GF30 [White] <i>[Blanc]</i>

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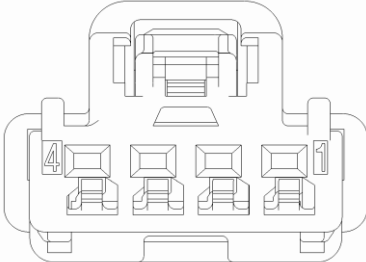
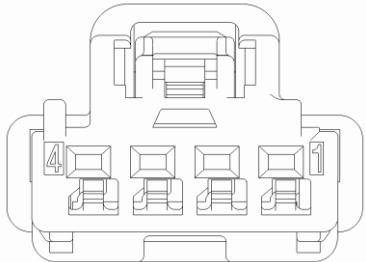
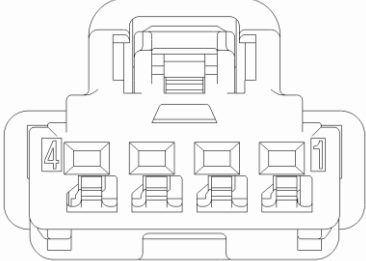
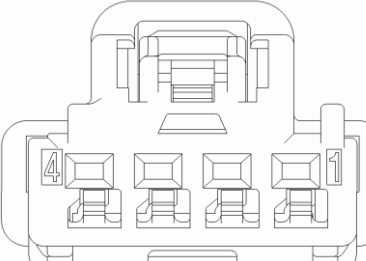
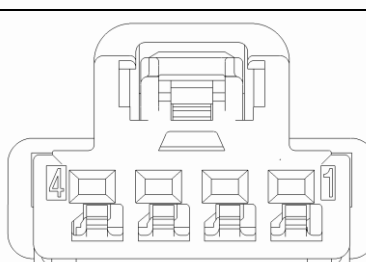


YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7847-30 3P HYB NWP system connector female subassembly CODE A	7189-7847-30 3P HYB NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1400 3P HYB NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7848-60 3P HYB NWP system connector female subassembly CODE B	7189-7848-60 3P HYB NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1400 3P HYB NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7849-90 3P HYB NWP system connector female subassembly CODE C	7189-7849-90 3P HYB NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1400 3P HYB NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7850-80 3P HYB NWP system connector female subassembly CODE D	7189-7850-80 3P HYB NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1400 3P HYB NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7846-20 3P HYB NWP system connector female subassembly CODE 0	7189-7846-20 3P HYB NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1400 3P HYB NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

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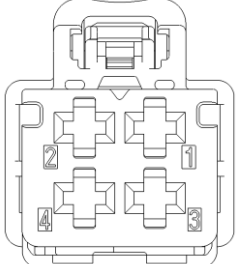
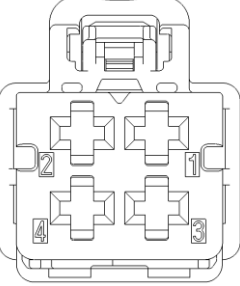
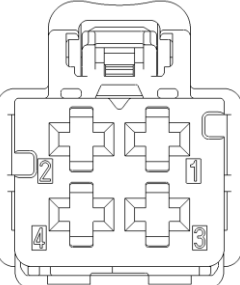
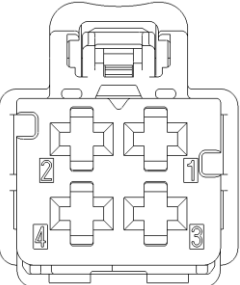
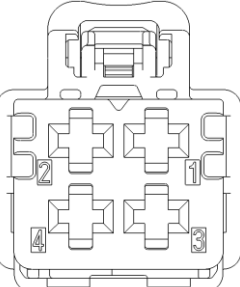
YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7842-30 (9817968480) 4P 1.2 NWP system connector male subassembly CODE A	7188-7842-30 4P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7843-60 (9821918880) 4P 1.2 NWP system connector male subassembly CODE B	7188-7843-60 4P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7844-90 (9821918980) 4P 1.2 NWP system connector male subassembly CODE C	7188-7844-90 4P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7845-80 (9821919080) 4P 1.2 NWP system connector male subassembly CODE D	7188-7845-80 4P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7841-20 (9821919180) 4P 1.2 NWP system connector male subassembly CODE 0	7188-7841-20 4P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

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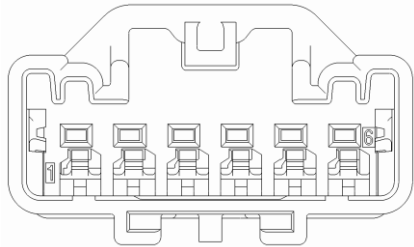
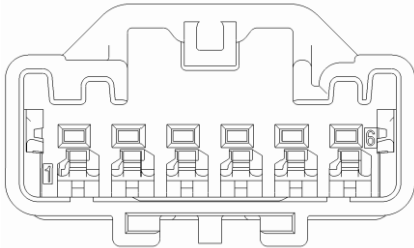
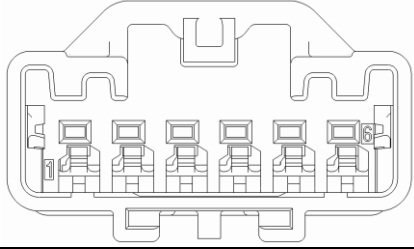
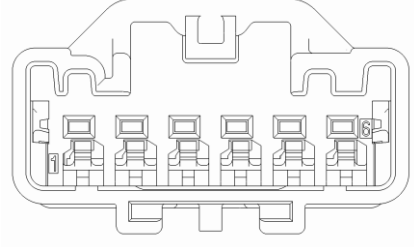
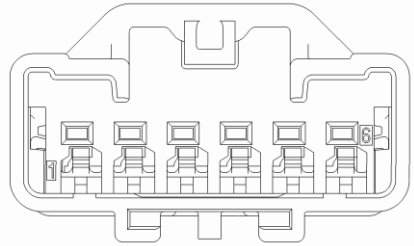
YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7837-30 (9817966980) 4P 1.2 NWP system connector female subassembly CODE A	7189-7837-30 4P 1.2 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7838-60 (9821894780) 4P 1.2 NWP system connector female subassembly CODE B	7189-7838-60 4P 1.2 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7839-90 (9821894980) 4P 1.2 NWP system connector female subassembly CODE C	7189-7839-90 4P 1.2 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7840-80 (9821895080) 4P 1.2 NWP system connector female subassembly CODE D	7189-7840-80 4P 1.2 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7836-20 (9821895180) 4P 1.2 NWP system connector female subassembly CODE 0	7189-7836-20 4P 1.2 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1397 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

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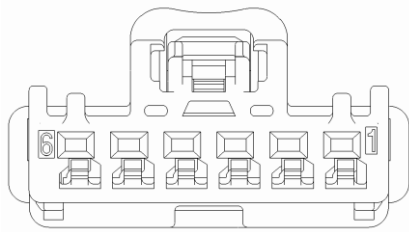
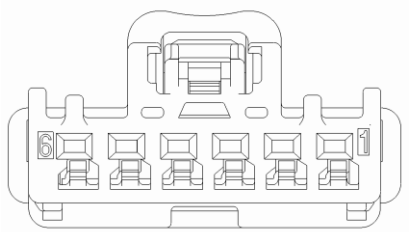
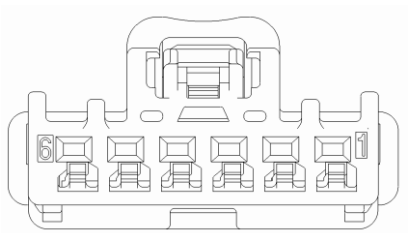
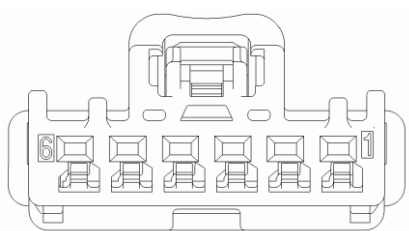
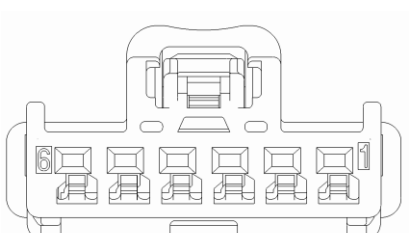
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation                      sous-ensemble YAZAKI                      (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation                      pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7298-1175-30 4P 2.8NWP system connector female subassembly CODE A	7198-1175-30 4P 2.8 NWP system F housing CODE A  7172-1568 4P 2.8 NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] [Noir]  PBT-GF30 [White] [Blanc]  PBT-GF30 [Orange] [Orange]
7298-1176-60 4P 2.8 NWP system connector female subassembly CODE B	7198-1176-60 4P 2.8 NWP system F housing CODE B  7172-1568 4P 2.8 NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] [Vert]  PBT-GF30 [White] [Blanc]  PBT-GF30 [Orange] [Orange]
7298-1177-90 4P 2.8 NWP system connector female subassembly CODE C	7198-1177-90 4P 2.8 NWP system F housing CODE C  7172-1568 4P 2.8 NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] [Bleu]  PBT-GF30 [White] [Blanc]  PBT-GF30 [Orange] [Orange]
7298-1178-80 4P 2.8 NWP system connector female subassembly CODE D	7198-1178-80 4P 2.8 NWP system F housing CODE D  7172-1568 4P 2.8 NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] [Marron]  PBT-GF30 [White] [Blanc]  PBT-GF30 [Orange] [Orange]
7298-1179-20 4P 2.8 NWP system connector female subassembly CODE 0	7198-1179-20 4P 2.8 NWP system F housing CODE 0  7172-1568 4P 2.8 NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Purple] [Violet]  PBT-GF30 [White] [Blanc]  PBT-GF30 [Orange] [Orange]

Title <b>1.2 NWP SYSTEM CONNECTOR FAMILY</b>	Doc. No. <b>YPES-15-1664E</b>	Rev. <b>3</b>
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7775-30 (9817888380) 6P 1.2 NWP system connector male subassembly CODE A	7188-7775-30 6P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7776-60 (9821452380) 6P 1.2 NWP system connector male subassembly CODE B	7188-7776-60 6P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7777-90 (9821452480) 6P 1.2 NWP system connector male subassembly CODE C	7188-7777-90 6P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1392 4P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7778-80 (9821452580) 6P 1.2 NWP system connector male subassembly CODE D	7188-7778-80 6P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7774-20 (9821452680) 6P 1.2 NWP system connector male subassembly CODE 0	7188-7774-20 6P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

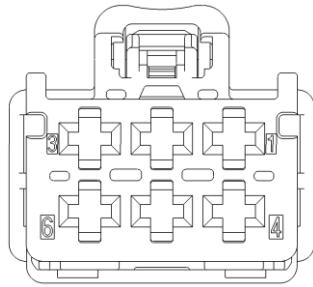
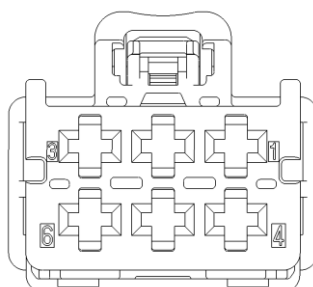
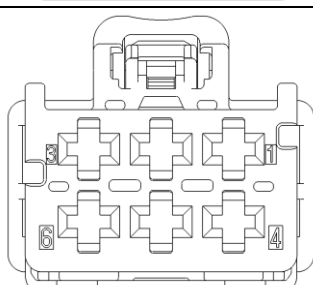
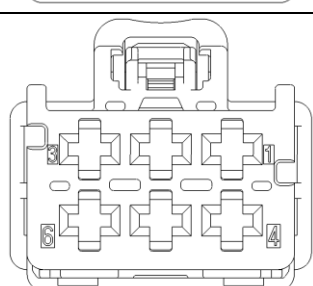
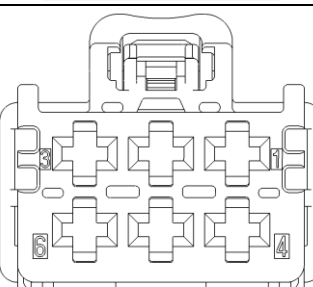
Title <b>1.2 NWP SYSTEM CONNECTOR FAMILY</b>	Doc. No. <b>YPES-15-1664E</b>	Rev. <b>3</b>
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7770-30 (9817888280) 6P 1.2 NWP system connector female subassembly CODE A	7189-7770-30 6P 1.2 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7771-60 (9821451880) 6P 1.2 NWP system connector female subassembly CODE B	7189-7771-60 6P 1.2 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7772-90 (9821451980) 6P 1.2 NWP system connector female subassembly CODE C	7189-7772-90 6P 1.2 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7773-80 (9821452180) 6P 1.2 NWP system connector female subassembly CODE D	7189-7773-80 6P 1.2 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7769-20 (9821452280) 6P 1.2 NWP system connector female subassembly CODE 0	7189-7769-20 6P 1.2 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1392 6P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

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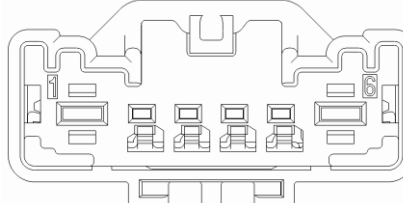
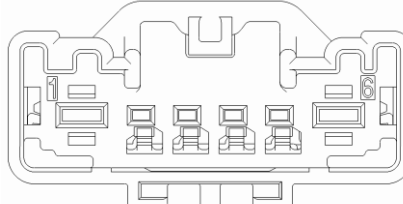
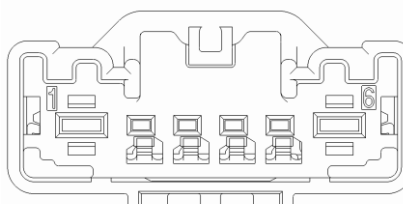
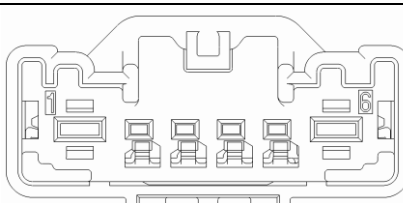
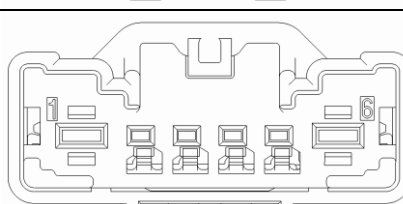


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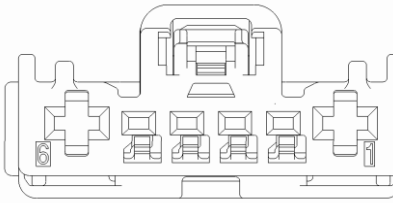
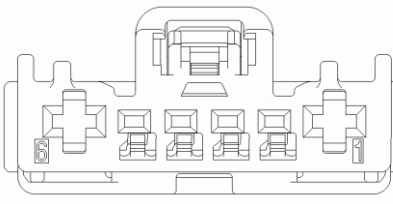
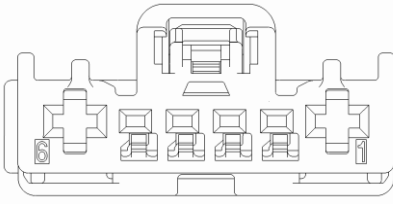
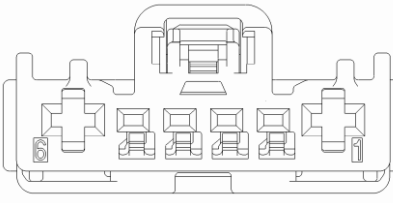
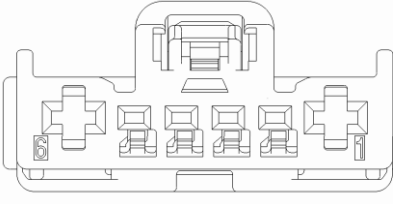
YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7298-1170-30 6P 2.8NWP system connector female subassembly CODE A	7198-1170-30 6P 2.8 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1567 6P 2.8 NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7298-1171-60 6P 2.8 NWP system connector female subassembly CODE B	7198-1171-60 6P 2.8 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1567 6P 2.8 NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7298-1172-90 6P 2.8 NWP system connector female subassembly CODE C	7198-1172-90 6P 2.8 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1567 6P 2.8 NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7298-1173-80 6P 2.8 NWP system connector female subassembly CODE D	7198-1173-80 6P 2.8 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1567 6P 2.8 NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7298-1174-20 6P 2.8 NWP system connector female subassembly CODE 0	7198-1174-20 6P 2.8 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1567 6P 2.8 NWP system F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

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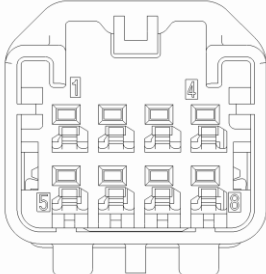
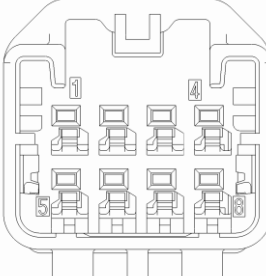
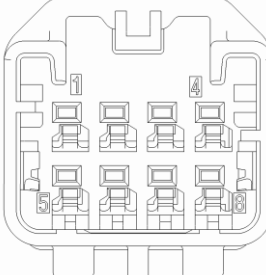
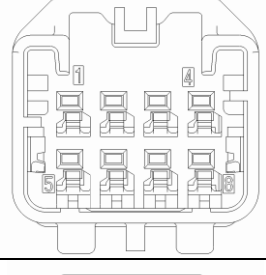
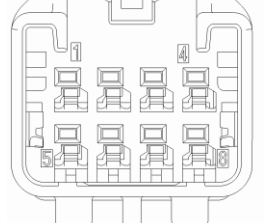


YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7868-30 6P HYB NWP system connector male subassembly CODE A	7188-7868-30 6P HYB NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1403 6P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-7869-60 6P HYB NWP system connector male subassembly CODE B	7188-7869-60 6P HYB NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1403 6P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-7870-90 6P HYB NWP system connector male subassembly CODE C	7188-7870-90 6P HYB NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1403 6P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-7871-80 6P HYB NWP system connector male subassembly CODE D	7188-7871-80 6P HYB NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1403 6P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-7867-20 6P HYB NWP system connector male subassembly CODE 0	7188-7867-20 6P HYB NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1403 6P HYB NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

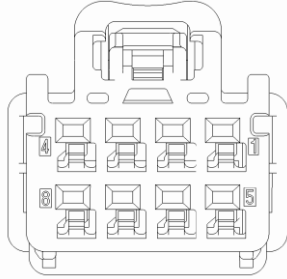
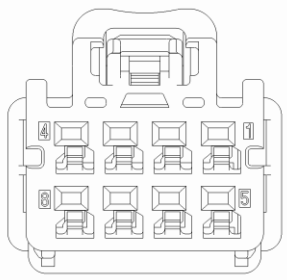
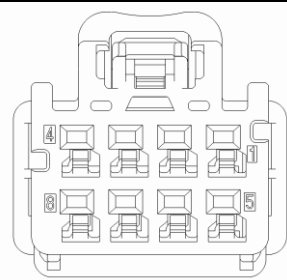
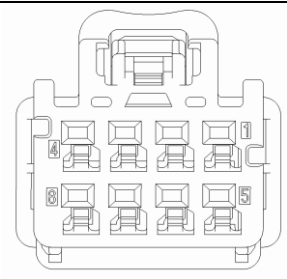
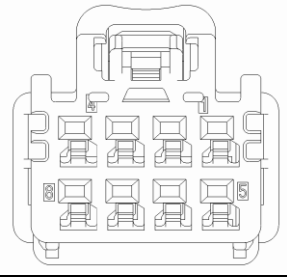
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7863-30 6P HYB NWP system connector female subassembly CODE A	7189-7863-30 6P HYB NWP system F housing CODE A 7172-1402 6P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] <i>[Noir]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7862-60 6P HYB NWP system connector female subassembly CODE B	7189-7862-60 6P HYB NWP system F housing CODE B 7172-1402 6P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] <i>[Vert]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7864-90 6P HYB NWP system connector female subassembly CODE C	7189-7864-90 6P HYB NWP system F housing CODE C 7172-1402 6P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7865-80 6P HYB NWP system connector female subassembly CODE D	7189-7865-80 6P HYB NWP system F housing CODE D 7172-1402 6P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] <i>[Marron]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7866-20 6P HYB NWP system connector female subassembly CODE 0	7189-7866-20 6P HYB NWP system F housing CODE 0 7172-1402 6P HYB NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Purple] <i>[Violet]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>

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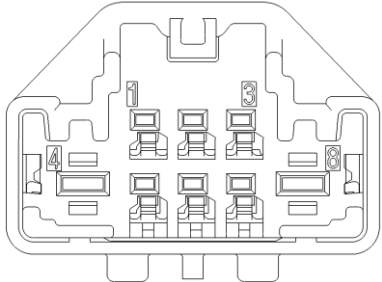
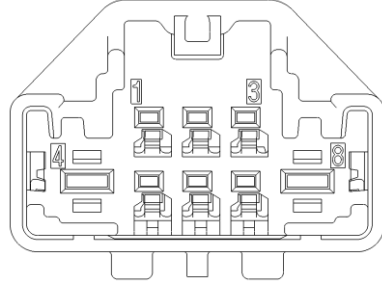
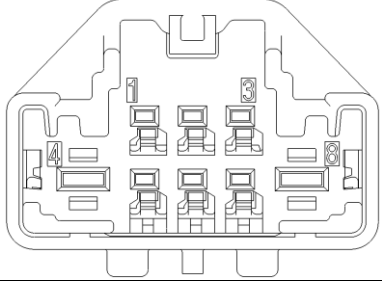
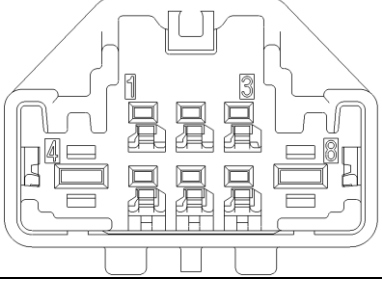
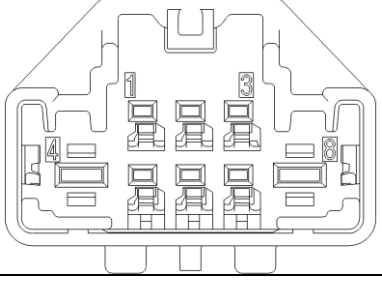
YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7797-30 (9817888080) 8P 1.2 NWP system connector male subassembly CODE A	7188-7797-30 8P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7798-60 (9821473480) 8P 1.2 NWP system connector male subassembly CODE B	7188-7798-60 8P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7799-90 (9821473880) 8P 1.2 NWP system connector male subassembly CODE C	7188-7799-90 8P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7800-80 (9821474280) 8P 1.2 NWP system connector male subassembly CODE D	7188-7800-80 8P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7796-20 (9821474680) 8P 1.2 NWP system connector male subassembly CODE 0	7188-7796-20 8P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7785-30 (9817887780) 8P 1.2 NWP system connector female subassembly CODE A	7189-7785-30 8P 1.2 NWP system F housing CODE A		PBT-(GF+MD)17 [Black] <i>[Noir]</i>
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7786-60 (9821473080) 8P 1.2 NWP system connector female subassembly CODE B	7189-7786-60 8P 1.2 NWP system F housing CODE B		PBT-(GF+MD)17 [Green] <i>[Vert]</i>
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7787-90 (9821473180) 8P 1.2 NWP system connector female subassembly CODE C	7189-7787-90 8P 1.2 NWP system F housing CODE C		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7788-80 (9821473280) 8P 1.2 NWP system connector female subassembly CODE D	7189-7788-80 8P 1.2 NWP system F housing CODE D		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>
7289-7784-20 (9821473380) 8P 1.2 NWP system connector female subassembly CODE 0	7189-7784-20 8P 1.2 NWP system F housing CODE 0		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>
	7172-1393 8P 1.2 NWP system M/F side spacer		PBT-GF30 [White] <i>[Blanc]</i>
	7172-1390-50 1.2 NWP system CPA		PBT-GF30 [Orange] <i>[Orange]</i>

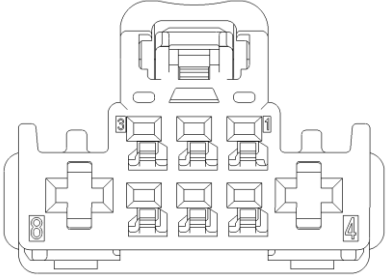
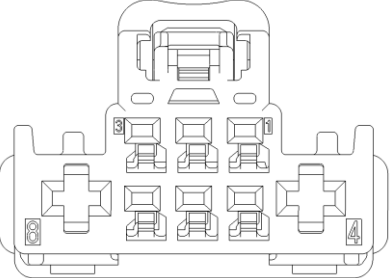
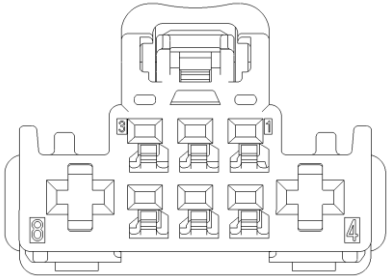
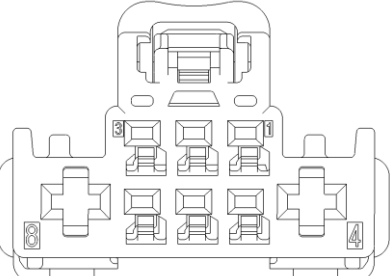
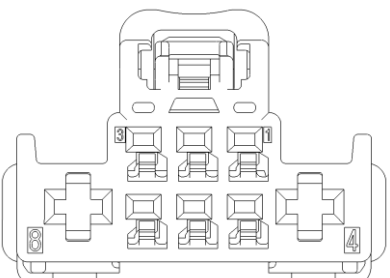
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7910-30 (9818502580) 8P HYB NWP system connector male subassembly CODE A	7188-7910-30 8P HYB NWP system M housing CODE A  7172-1398 8P HYB NWP system M side spacer		PBT-(GF+MD)17 [Black] <i>[Noir]</i>  PBT-GF30 [White] <i>[Blanc]</i>
7288-7911-60 (9824301680) 8P HYB NWP system connector male subassembly CODE B	7188-7911-60 8P HYB NWP system M housing CODE B  7172-1398 8P HYB NWP system M side spacer		PBT-(GF+MD)17 [Green] <i>[Vert]</i>  PBT-GF30 [White] <i>[Blanc]</i>
7288-7912-90 (9824301880) 8P HYB NWP system connector male subassembly CODE C	7188-7912-90 8P HYB NWP system M housing CODE C  7172-1398 8P HYB NWP system M side spacer		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>  PBT-GF30 [White] <i>[Blanc]</i>
7288-7913-80 (9824302080) 8P HYB NWP system connector male subassembly CODE D	7188-7913-80 8P HYB NWP system M housing CODE D  7172-1398 8P HYB NWP system M side spacer		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>  PBT-GF30 [White] <i>[Blanc]</i>
7288-7909-20 (9824302680) 8P HYB NWP system connector male subassembly CODE 0	7188-7909-20 8P HYB NWP system M housing CODE 0  7172-1398 8P HYB NWP system M side spacer		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>  PBT-GF30 [White] <i>[Blanc]</i>

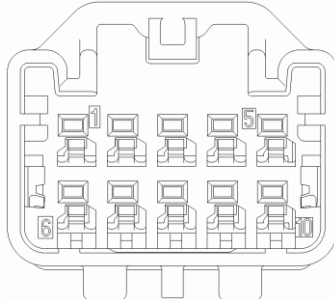
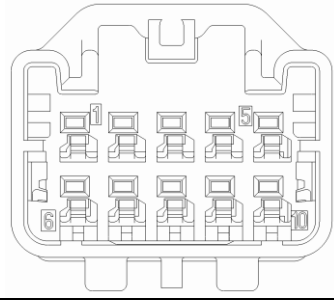
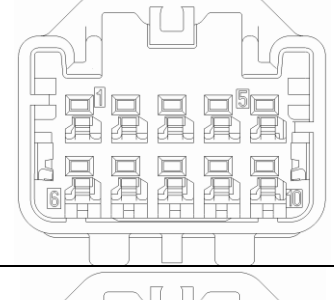
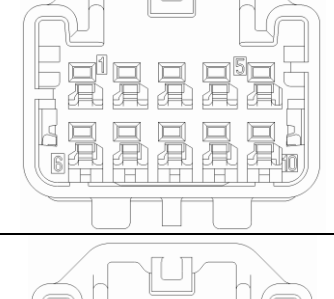
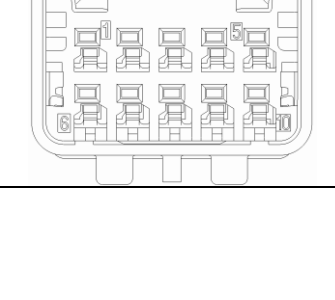
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7904-30 (9818502180) 8P HYB NWP system connector female subassembly CODE A	7189-7904-30 8P HYB NWP system F housing CODE A  7172-1404 8P HYB NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] <i>[Noir]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7905-60 (9824292280) 8P HYB NWP system connector female subassembly CODE B	7189-7905-60 8P HYB NWP system F housing CODE B  7172-1404 8P HYB NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] <i>[Vert]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7906-90 (9824292180) 8P HYB NWP system connector female subassembly CODE C	7189-7906-90 8P HYB NWP system F housing CODE C  7172-1404 8P HYB NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7907-80 (9824291780) 8P HYB NWP system connector female subassembly CODE D	7189-7907-80 8P HYB NWP system F housing CODE D  7172-1404 8P HYB NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7908-20 (9824292380) 8P HYB NWP system connector female subassembly CODE 0	7189-7908-20 8P HYB NWP system F housing CODE 0  7172-1404 8P HYB NWP system F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Purple] <i>[Violet]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>

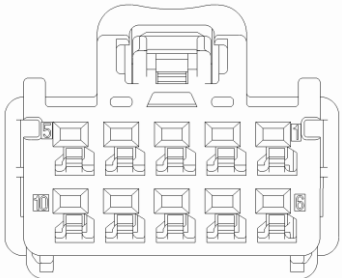
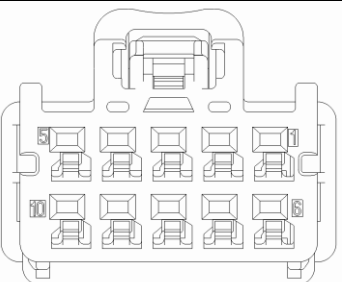
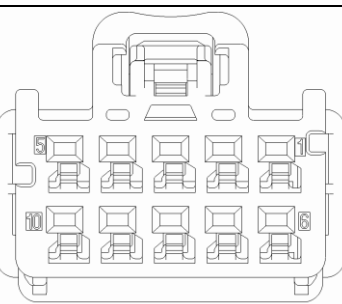
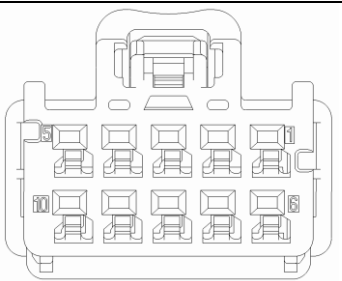
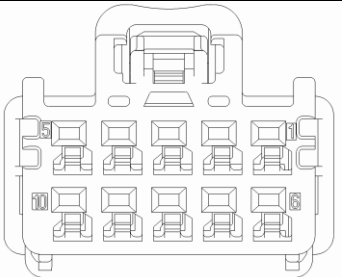
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7765-30 (9817878780) 10P 1.2 NWP system connector male subassembly CODE A	7188-7765-30 10P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1391 10P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7766-60 (9821516180) 10P 1.2 NWP system connector male subassembly CODE B	7188-7766-60 10P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1391 10P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7767-90 (9821519180) 10P 1.2 NWP system connector male subassembly CODE C	7188-7767-90 10P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1391 10P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7768-80 (9819931880) 10P 1.2 NWP system connector male subassembly CODE D	7188-7768-80 10P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1391 10P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7764-20 (9821519380) 10P 1.2 NWP system connector male subassembly CODE 0	7188-7764-20 10P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1391 10P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

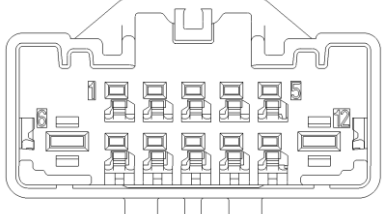
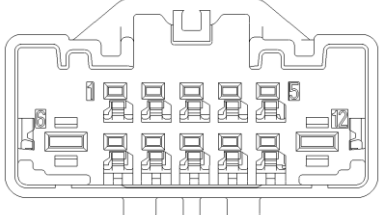
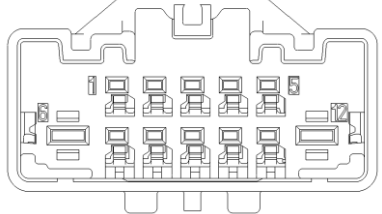
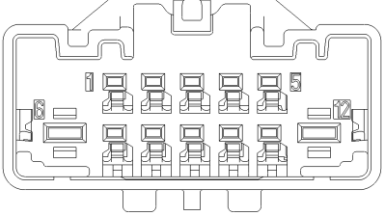
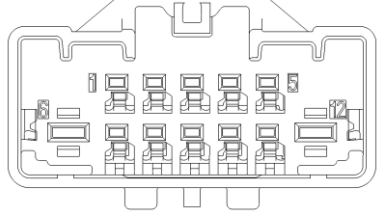
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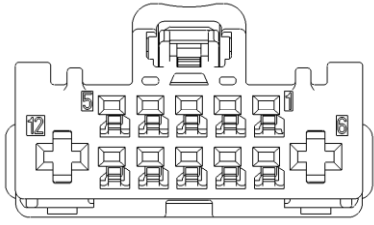
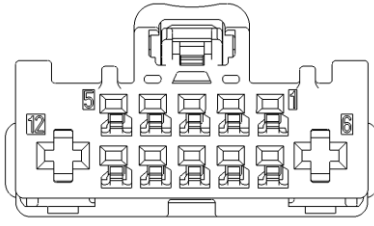
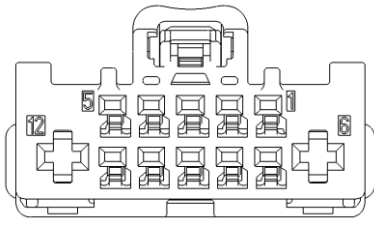
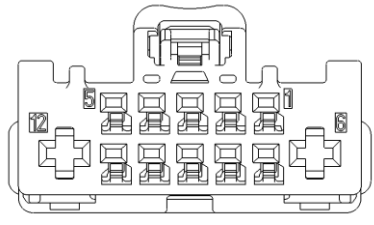
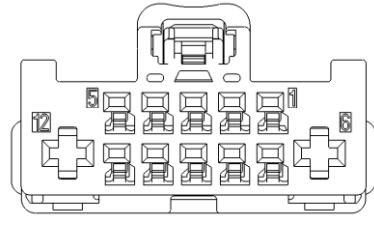
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7289-7760-30 (9817874180) 10P 1.2 NWP system connector female subassembly CODE A	7189-7760-30 10P 1.2 NWP system M/F housing CODE A 7172-1391 10P 1.2 NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] <i>[Noir]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7761-60 (9821515780) 10P 1.2 NWP system connector female subassembly CODE B	7189-7761-60 10P 1.2 NWP system F housing CODE B 7172-1391 10P 1.2 NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] <i>[Vert]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7762-90 (9821515880) 10P 1.2 NWP system connector female subassembly CODE C	7189-7762-90 10P 1.2 NWP system F housing CODE C 7172-1391 10P 1.2 NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7763-80 (9819931980) 10P 1.2 NWP system connector female subassembly CODE D	7189-7763-80 10P 1.2 NWP system F housing CODE D 7172-1391 10P 1.2 NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] <i>[Marron]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>
7289-7759-20 (9821515980) 10P 1.2 NWP system connector female subassembly CODE 0	7189-7759-20 10P 1.2 NWP system F housing CODE 0 7172-1391 10P 1.2 NWP system M/F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Violet] <i>[Violet]</i> PBT-GF30 [White] <i>[Blanc]</i> PBT-GF30 [Orange] <i>[Orange]</i>

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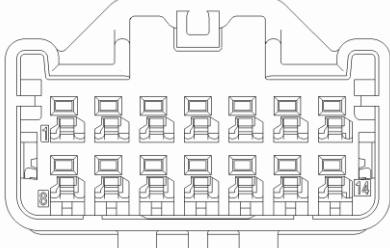
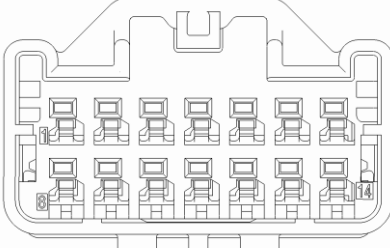
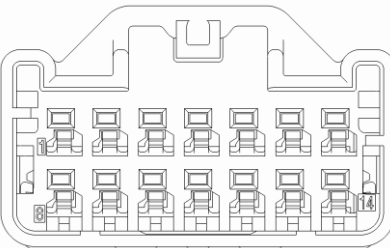
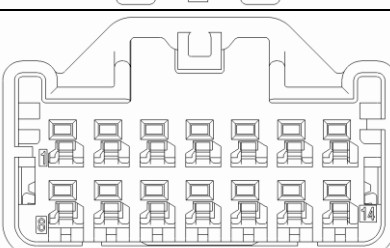
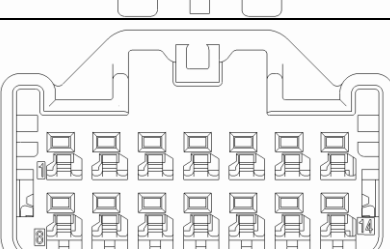
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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-9365-30 (9824245880) 12P HYB NWP system connector male subassembly CODE A	7188-9365-30 12P HYB NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1506 12P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-9366-60 (9830135780) 12P HYB NWP system connector male subassembly CODE B	7188-9366-60 12P HYB NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1506 12P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-9367-90 (9830136180) 12P HYB NWP system connector male subassembly CODE C	7188-9367-90 12P HYB NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1506 12P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-9368-80 (9830136280) 12P HYB NWP system connector male subassembly CODE D	7188-9368-80 12P HYB NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1506 12P HYB NWP system M side spacer		PBT-GF30 [White] [Blanc]
7288-9364-20 (9830136480) 12P HYB NWP system connector male subassembly CODE 0	7188-9364-20 12P HYB NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
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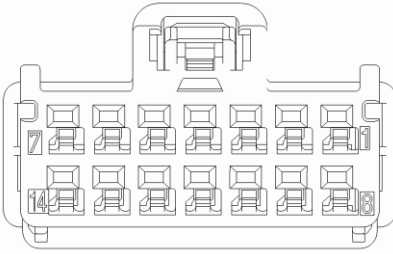
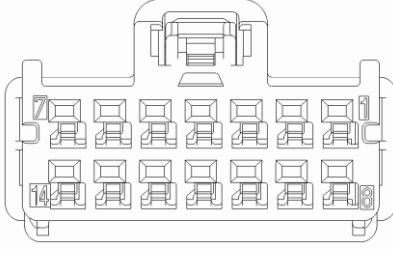
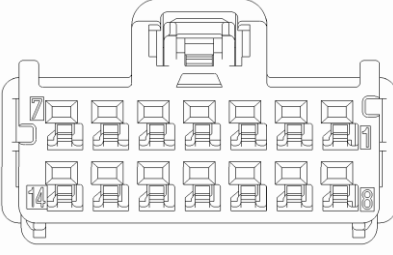
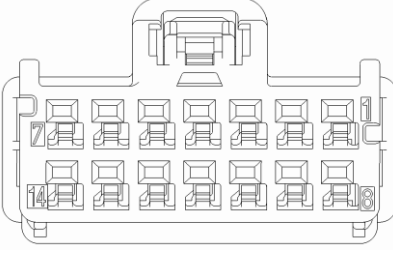
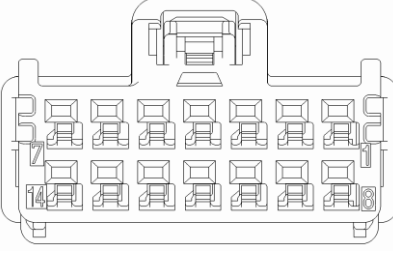
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1	YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation sous-ensemble YAZAKI (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
	7289-9370-30 (9824230680) 12P HYB NWP connector female subassembly CODE A	7189-9370-30 12P HYB NWP system F housing CODE A 7172-1507 12P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] [Noir] PBT-GF30 [White] [Blanc] PBT-GF30 [Orange] [Orange]
	7289-9371-60 (9830069580) 12P HYB NWP connector female subassembly CODE B	7189-9371-60 12P HYB NWP system F housing CODE B 7172-1507 12P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] [Vert] PBT-GF30 [White] [Blanc] PBT-GF30 [Orange] [Orange]
	7289-9372-90 (9830069680) 12P HYB NWP connector female subassembly CODE C	7189-9372-90 12P HYB NWP system F housing CODE C 7172-1507 12P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] [Bleu] PBT-GF30 [White] [Blanc] PBT-GF30 [Orange] [Orange]
	7289-9373-80 (9830069780) 12P HYB NWP connector female subassembly CODE D	7189-9373-80 12P HYB NWP system F housing CODE D 7172-1507 12P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] [Marron] PBT-GF30 [White] [Blanc] PBT-GF30 [Orange] [Orange]
	7189-9369-20 (9830069880) 12P HYB NWP connector female subassembly CODE 0	7189-9369-20 12P HYB NWP system F housing CODE 0 7172-1507 12P HYB NWP system F side spacer 7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Purple] [Violet] PBT-GF30 [White] [Blanc] PBT-GF30 [Orange] [Orange]

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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7288-7807-30 (9817972180) 14P 1.2 NWP system connector male subassembly CODE A	7188-7807-30 14P 1.2 NWP system M housing CODE A		PBT-(GF+MD)17 [Black] [Noir]
	7172-1394 14P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7808-60 (9824610280) 14P 1.2 NWP system connector male subassembly CODE B	7188-7808-60 14P 1.2 NWP system M housing CODE B		PBT-(GF+MD)17 [Green] [Vert]
	7172-1394 14P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7809-90 (9824610380) 14P 1.2 NWP system connector male subassembly CODE C	7188-7809-90 14P 1.2 NWP system M housing CODE C		PBT-(GF+MD)17 [Blue] [Bleu]
	7172-1394 14P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7810-80 (9824610480) 14P 1.2 NWP system connector male subassembly CODE D	7188-7810-80 14P 1.2 NWP system M housing CODE D		PBT-(GF+MD)17 [Brown] [Marron]
	7172-1394 14P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]
7288-7806-20 (9824610780) 14P 1.2 NWP system connector male subassembly CODE 0	7188-7806-20 14P 1.2 NWP system M housing CODE 0		PBT-(GF+MD)17 [Purple] [Violet]
	7172-1394 14P 1.2 NWP system M/F side spacer		PBT-GF30 [White] [Blanc]

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YAZAKI (PSA) Subassembly part number/ name  <i>Référence / désignation            sous-ensemble YAZAKI            (PSA)</i>	YAZAKI part numbers / part names [CODES]  <i>Référence / désignation            pièce YAZAKI (PSA)</i>	Shape  <i>Forme</i>	Material [color]  <i>Matière [couleur]</i>
7289-7802-30 (9817971880) 14P 1.2 NWP system connector female subassembly CODE A	7189-7802-30 14P 1.2 NWP system M/F housing CODE A  7172-1394 14P 1.2 NWP system M/F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Black] <i>[Noir]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7803-60 (9823066380) 14P 1.2 NWP system connector female subassembly CODE B	7189-7803-60 14P 1.2 NWP system F housing CODE B  7172-1394 14P 1.2 NWP system M/F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Green] <i>[Vert]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7804-90 (9823066680) 14P 1.2 NWP system connector female subassembly CODE C	7189-7804-90 14P 1.2 NWP system F housing CODE C  7172-1394 14P 1.2 NWP system M/F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Blue] <i>[Bleu]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7805-80 (9823066880) 14P 1.2 NWP system connector female subassembly CODE D	7189-7805-80 14P 1.2 NWP system F housing CODE D  7172-1394 14P 1.2 NWP system M/F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Brown] <i>[Marron]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>
7289-7801-20 (9823066980) 14P 1.2 NWP system connector female subassembly CODE 0	7189-7801-20 14P 1.2 NWP system F housing CODE 0  7172-1394 14P 1.2 NWP system M/F side spacer  7172-1390-50 1.2 NWP system CPA		PBT-(GF+MD)17 [Violet] <i>[Violet]</i>  PBT-GF30 [White] <i>[Blanc]</i>  PBT-GF30 [Orange] <i>[Orange]</i>

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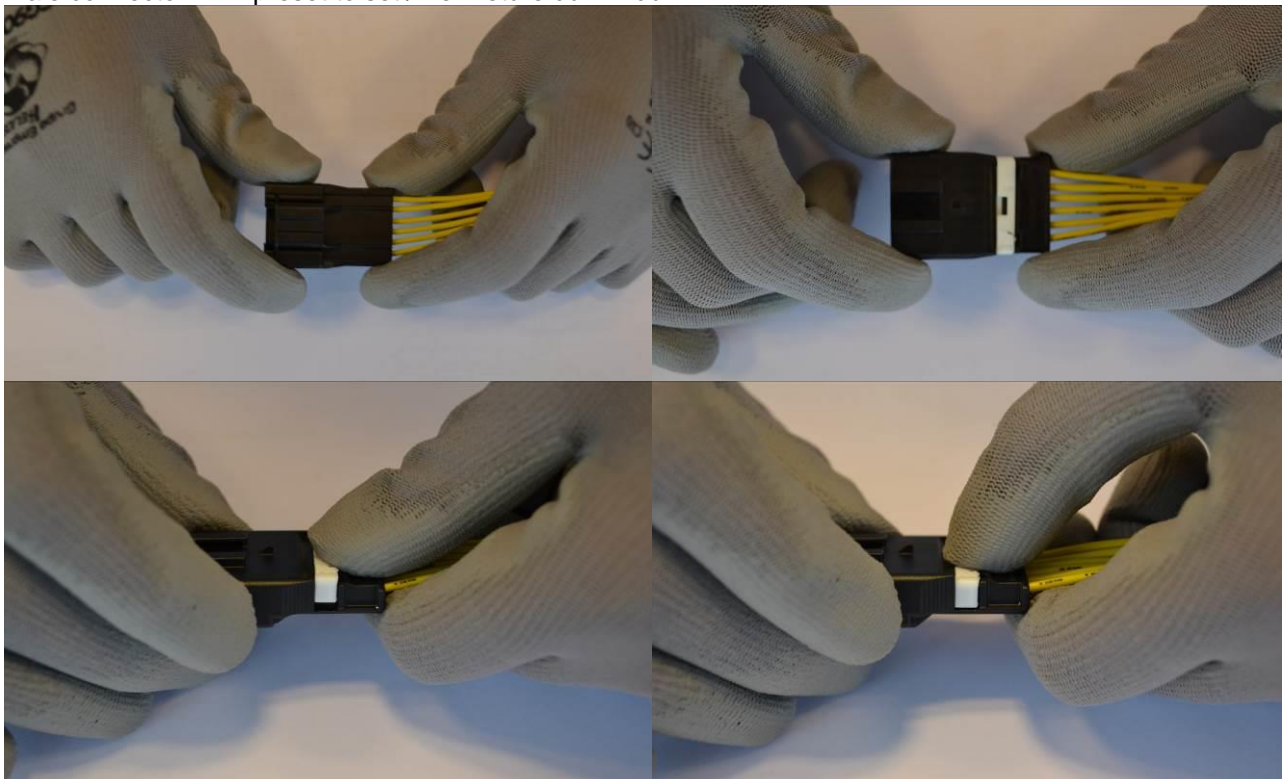


1 8. ATTACHMENT 2 – Connector mating and unmating

8. ANNEXE 2 – Accouplement et désaccouplement des connecteurs

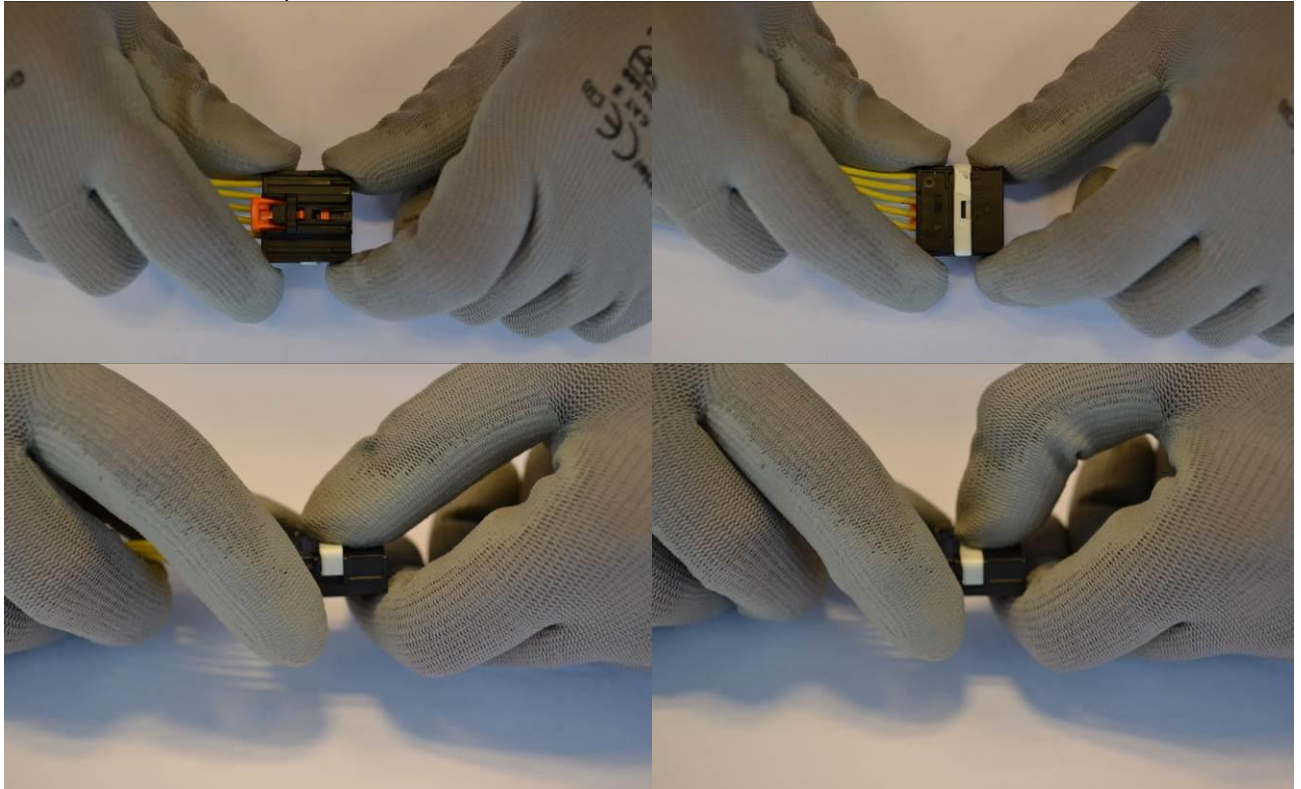


Male connector TPA preset to set / Fermeture du DV du PL:



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Female connector TPA preset to set / Fermeture du DV du PC:



Connector mating / Accouplement:



CPA activation / Fermeture du CPA:



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CPA deactivation / Ouverture du CPA:



Pressing the locking arm and unmating the housings / Appuyer sur la lance de verrouillage et désaccoupler les connecteurs:



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**9. ATTACHMENT 3 – Electrical check pin positioning**

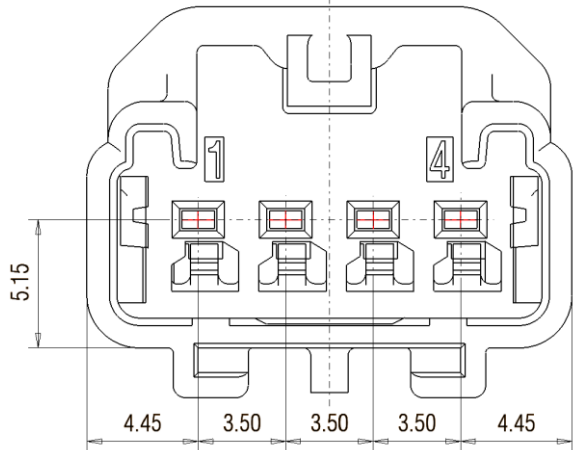
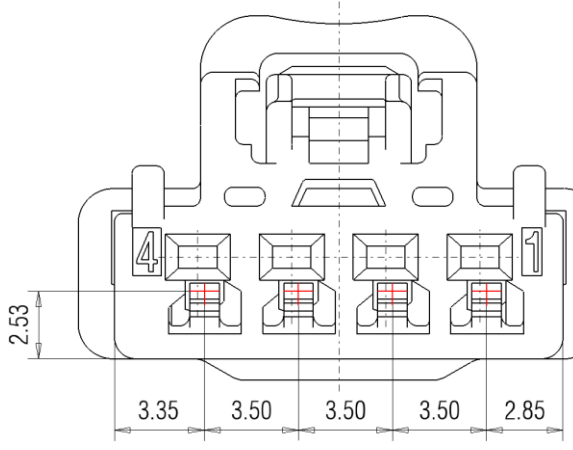
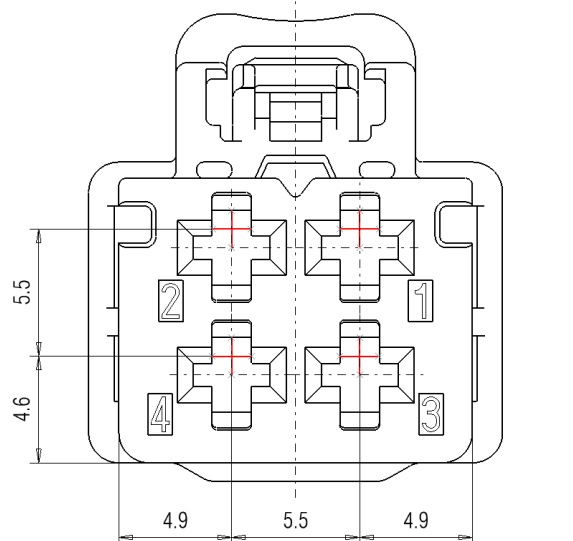
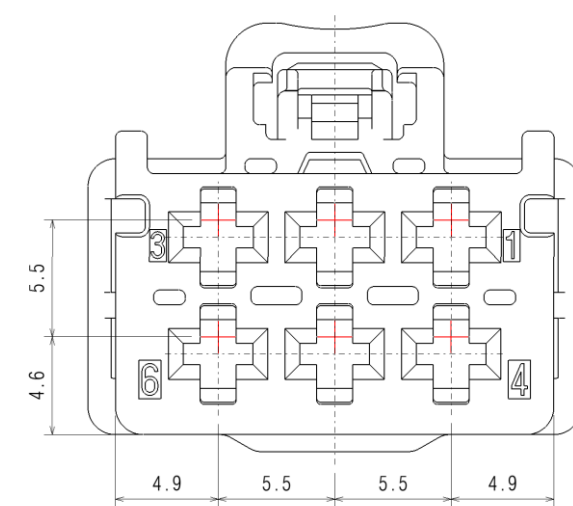
**9. ANNEXE 3 – Position des pointes de contrôle électrique**

For tolerances, check terminal position tolerances on customer drawings (see 3.1 Customer drawings).

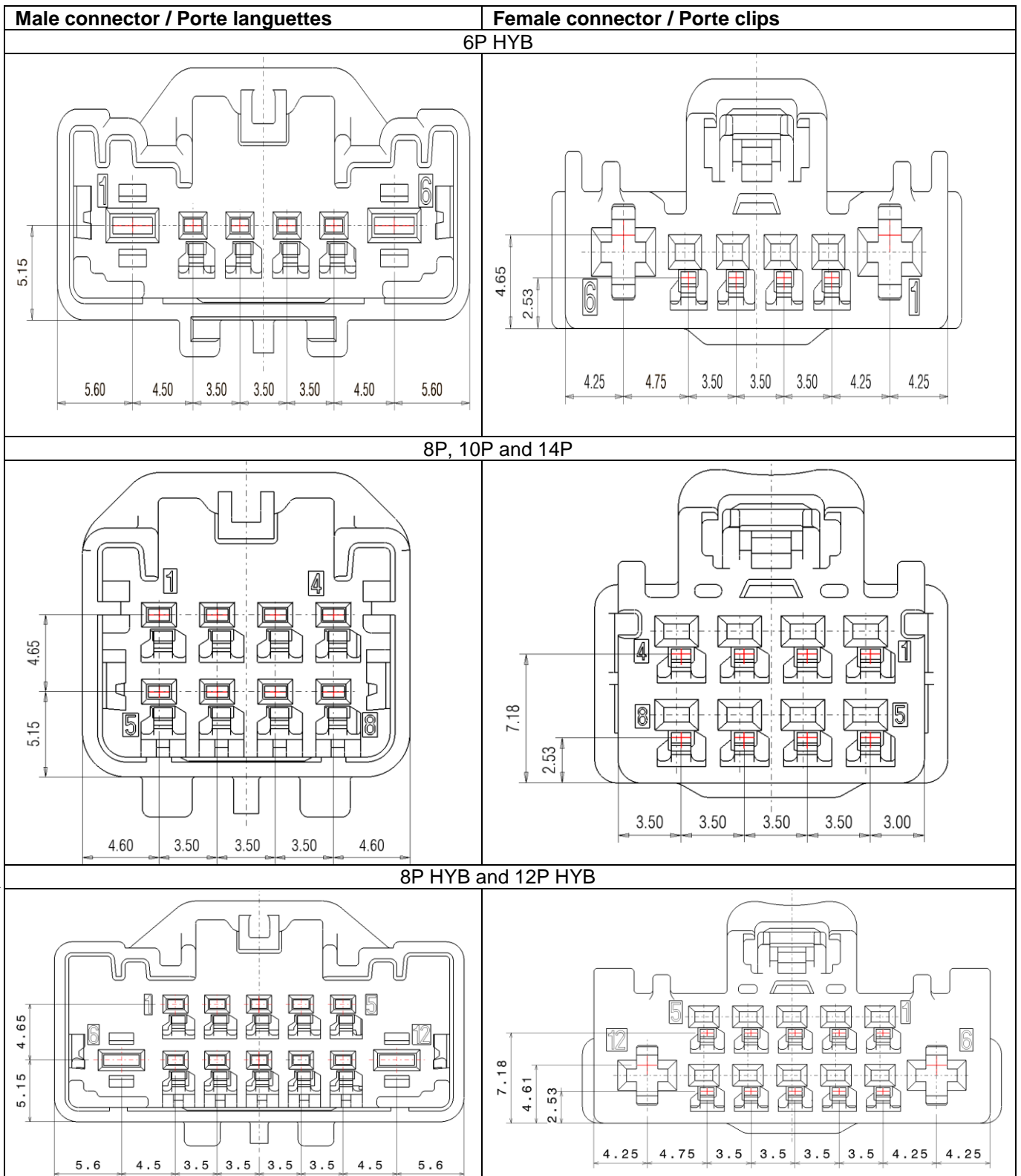
Pour les tolérances, se référer aux tolérances de position des contacts sur les plans Client (voir 3.1 Plans Client).

Male connector / Porte languettes	Female connector / Porte clips
<b>2P 1.2</b>	
<b>2P 2.8</b>	
<b>3P HYB</b>	

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Male connector / Porte languettes	Female connector / Porte clips
3P, 4P and 6P	
	
4P 2.8	
N/A	
6P 2.8	
N/A	

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**10. Revision history****10. Historique de révision**

<b>Revision Level</b>	<b>Date</b>	<b>Change Description</b>	<b>Revised By</b>
0	24.05.2016.	Initial	M.Zokalj
1	14.01.2019.	PSA PNs and 12P HYB mass numbers added, 4P 2.8 and 6P 2.8 connectors added, 2.8 removal tool updated, terminal information updated	M.Zokalj
2	29.10.2019.	Changed Delphi to Aptiv, Tyco 2.8 removal tool added, 2P 2.8 F PSA ref. added, MCP ref added	M.Zokalj
3	07.12.2021.	Female connector clamping zones image added	M.Zokalj

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