

Handling Manual for 2P/ 3P/ 4P 1,5mm / YPT 9,5mm System Sealed Hybrid Connector

Verarbeitungsspezifikation für 2-/ 3-/ 4-poligen 1,5mm / YPT 9,5mm System gedichteten Hybrid-Stecker



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1 Scope

This Handling Manual contains the guidelines for the application of the **YAZAKI 2P/ 3P/ 4P 1,5mm / YPT 9,5mm System Sealed Hybrid Connector** together with 1,5mm YES and YPT 9,5mm Systems Sealed Male and Female Terminals. The connectors are used for the application of a Cooling Fan Inline Connection and a Heater Blower Inline Connection.

1.1 Delivery Condition

- Assembled Male Connector with Front Holder (Spacer) in Preset – Position (7286-1397-30 etc.)
- Assembled Female Connector with Interface Seal and Front Holder in Preset-Position (7287-1403-30 etc.)
- Assembled Female Connector with Interface Seal, Front Holder in Preset-Position and CPA in Preset-Position (7289-5783-30 etc.) 
- Assembled Female Connector with Interface Seal, Front Holder in Preset-Position and CPA in Preset-Position (7289-7643-30 etc.) 

For the definition of coding and versions, as well as colour marking, see YAZAKI-Drawing: 7286-1397-30:R or 7287-1403-30:R

1 Anwendungsbereich

Diese Verarbeitungsspezifikation enthält die Richtlinien für die Verarbeitung des **YAZAKI 2 - / 3 - / 4 - poligen 1,5mm / YPT 9,5mm System gedichteten Hybrid-Steckers** zusammen mit gedichteten 1,5mm YES und YPT 9,5mm System Flachsteck- und Buchsenkontakten. Die Stecker werden eingesetzt bei Reihenschaltungen von Kühlgebläse und Heizlüfter.

1.1 Anlieferungszustand

- Montierter Flachstecker mit Vordergehäuse (Zweite Kontaktsicherung) in vorgerastetem Zustand (7282-1397-30 usw.)
- Montierter Buchsenstecker mit Buchsendichtung, Vordergehäuse (Zweite Kontaktsicherung) in vorgerastetem Zustand (7287-1403-30 usw.)
- Montierter Buchsenstecker mit Buchsendichtung, Vordergehäuse (Zweite Kontaktsicherung) in vorgerastetem Zustand und CPA in vorgerastetem Zustand (7289-5783-30 usw.) 
- Montierter Buchsenstecker mit Buchsendichtung, Vordergehäuse (Zweite Kontaktsicherung) in vorgerastetem Zustand und CPA in vorgerastetem Zustand (7289-7643-30 usw.) 

Für die Festlegung der Kodierung und Ausführungsarten als auch der Farbkennzeichnung, siehe YAZAKI-Zeichnung: 7282-1397-30:R oder 7287-1403-30:R

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2 Part Description and Function

2.1 Female Connector Parts and Part Numbers

YPT 9,5mm Single Wire Seals (SWS) / YPT 9,5mm Einzeldichtungen (SWS):

△ 7158-3672-50, 7158-3673-90, 7158-3713-70, 7172-5184, 7172-5643-50.

1,5mm Single Wire Seals (SWS) / 1,5mm Einzeldichtungen (SWS):

△ 7158-3030-50, 7158-3031-90, 7158-3033-40.

Female Terminals (1,5mm and 9,5mm) /
Flachsteckkontakte (1,5mm und 9,5mm)

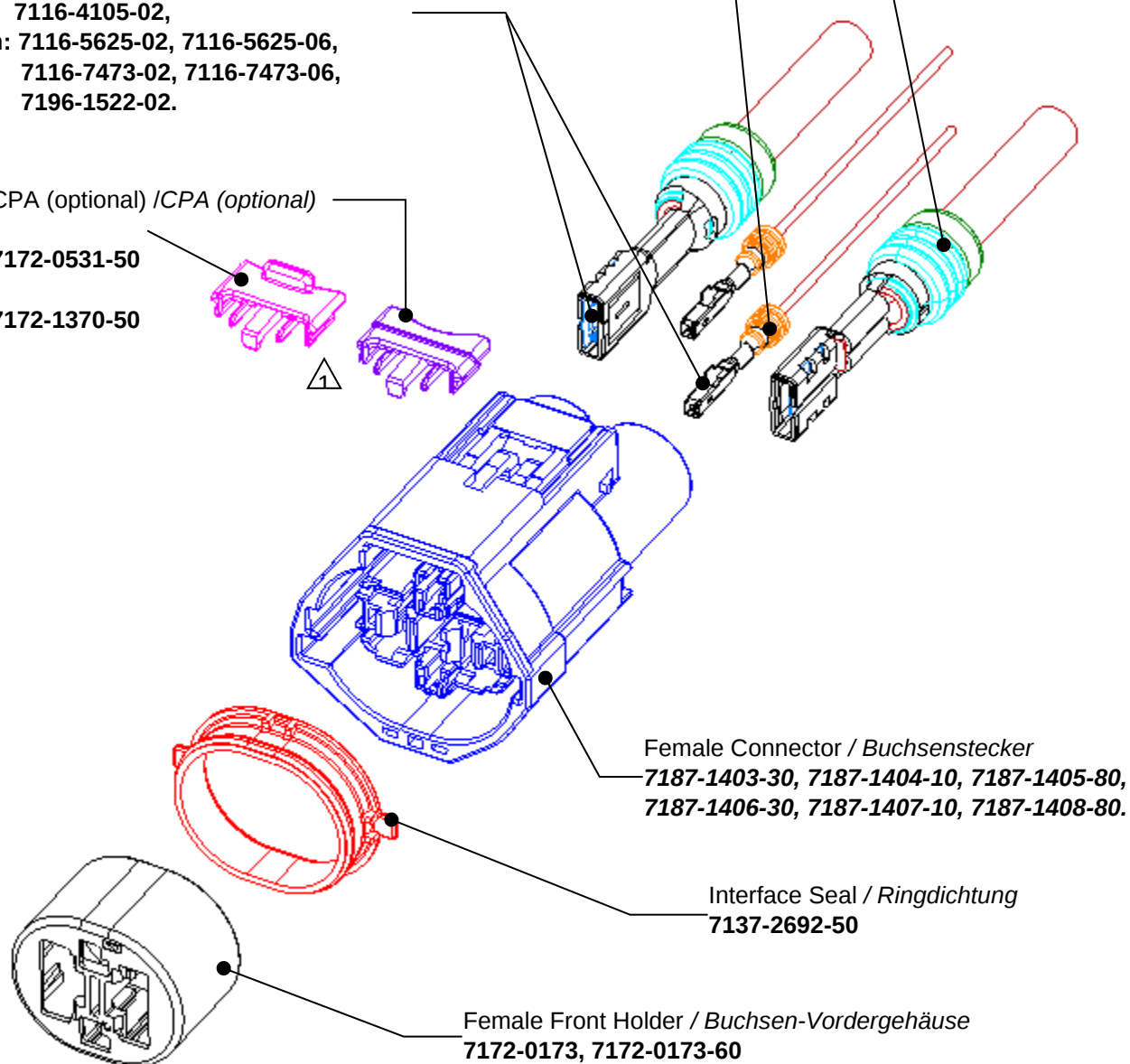
△ 1,5mm: 7116-4102-02, 7116-4103-02,
7116-4102-08, 7116-4103-08;
7116-4105-02,

△ 9,5mm: 7116-5625-02, 7116-5625-06,
7116-7473-02, 7116-7473-06,
7196-1522-02.

CPA (optional) / CPA (optional)

7172-0531-50

7172-1370-50



Picture 1

Abbildung 1

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2.2 Male Connector Parts and Part Numbers

2.2 Flachsteckerteile und Teile Nummern

YPT 9,5mm Single Wire Seals (SWS) / YPT 9,5mm Einzeldichtungen (SWS):

△ **7158-3672-50, 7158-3673-90, 7158-3713-70, 7172-5184, 7172-5643-50.**

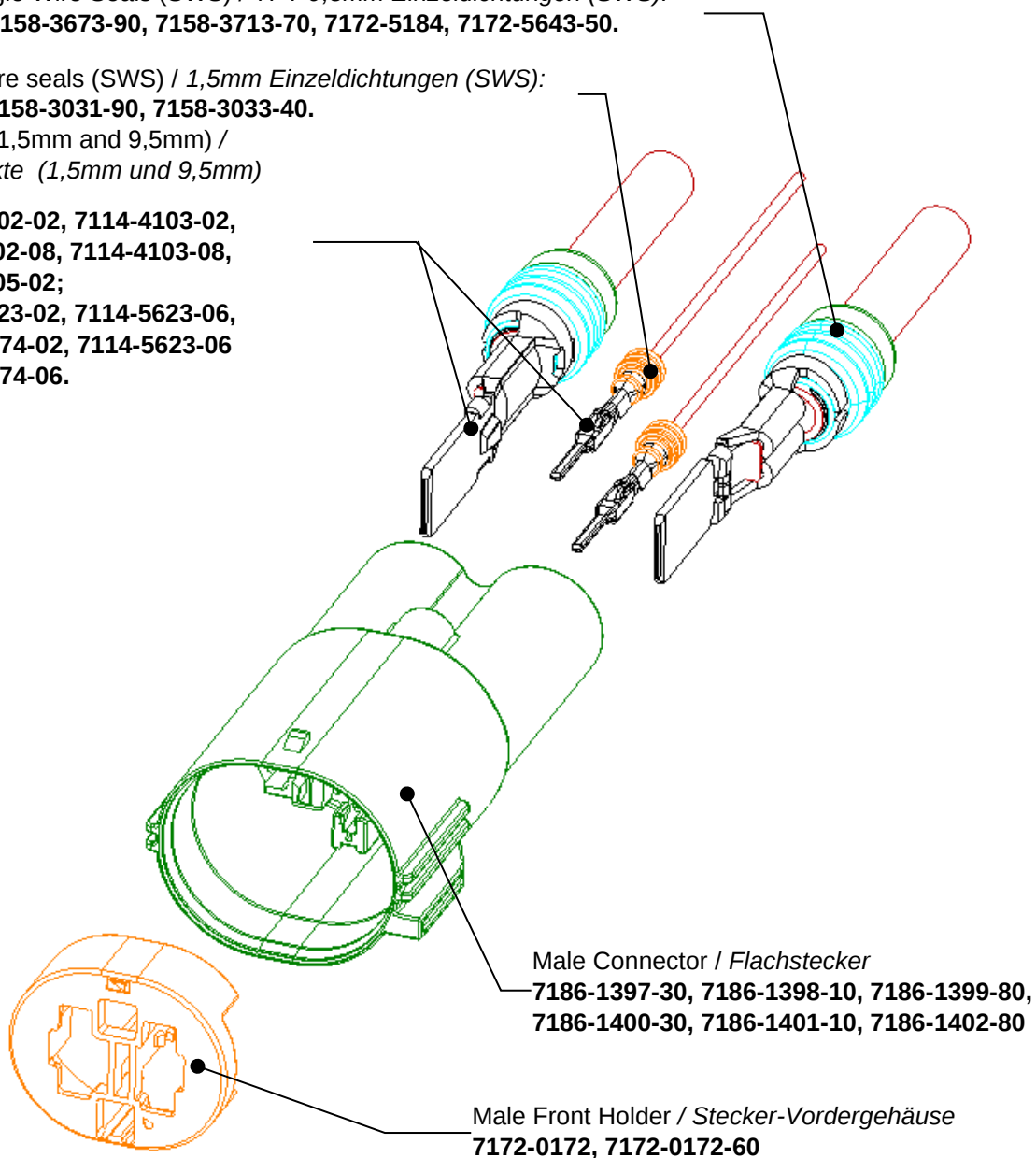
1,5mm Single wire seals (SWS) / 1,5mm Einzeldichtungen (SWS):

△ **7158-3030-50, 7158-3031-90, 7158-3033-40.**

Male Terminals (1,5mm and 9,5mm) /
Flachsteckkontakte (1,5mm und 9,5mm)

△ **1,5mm: 7114-4102-02, 7114-4103-02,
7114-4102-08, 7114-4103-08,
7116-4105-02;**

△ **9,5mm: 7114-5623-02, 7114-5623-06,
7114-7474-02, 7114-5623-06
7114-7474-06.**



Picture 2

Abbildung 2

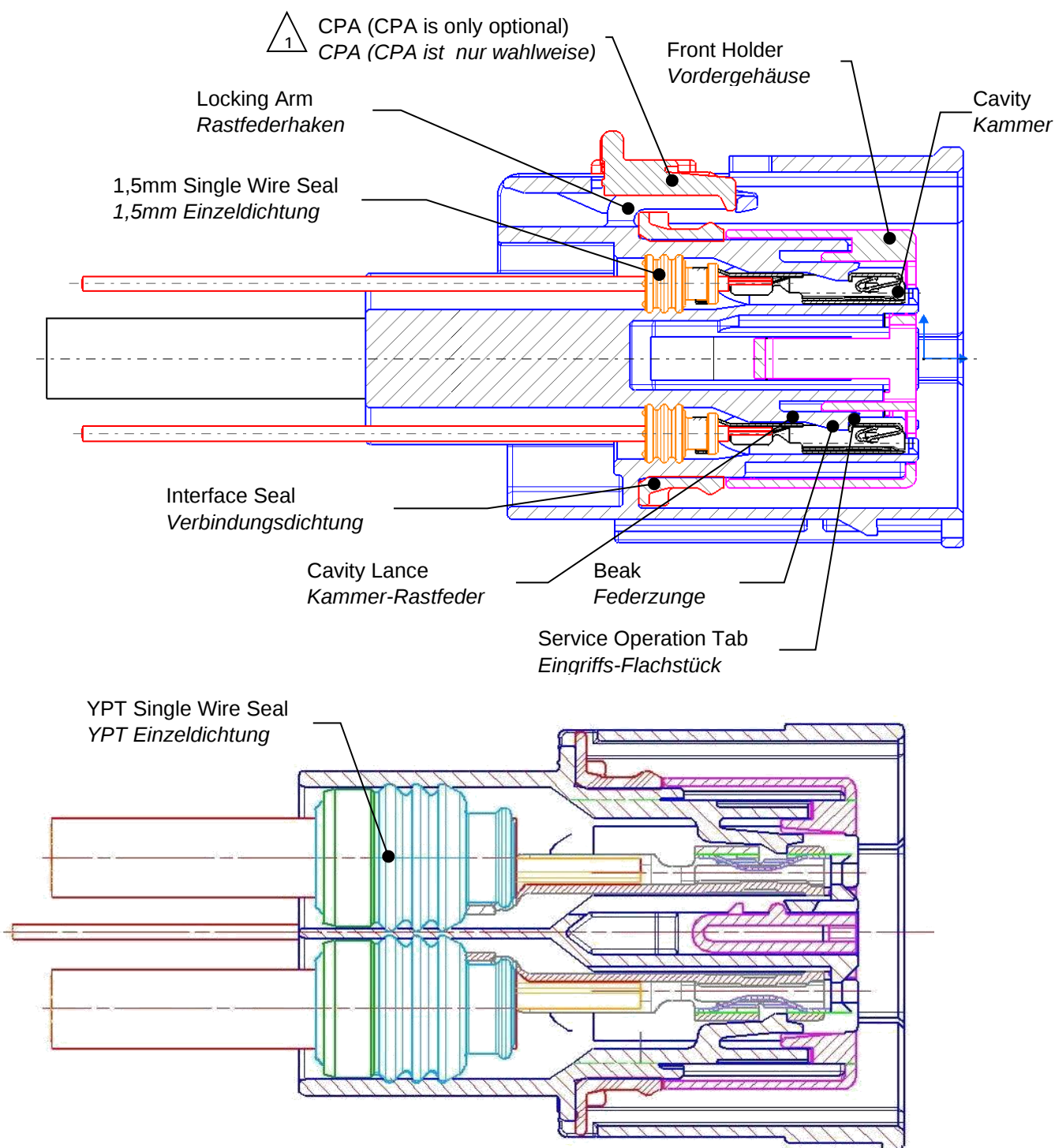
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2.3 Significant Features: Description and Function

2.3.1 Female Connector with Locking Arm and Front Holder

2.3 Wichtige Merkmale: Beschreibung und Funktion

2.3.1 Buchsenstecker mit Rastfederhaken und Vordergehäuse



Picture 3

Abbildung 3

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- Front Holder

After insertion of all Terminals, push Front Holder from Pre-Set to the Set Position. This action checks if all Terminals are completely inserted. If Front Holder is not fully engaged in Set Position, then Female Connector could not be mated with Male Connector.

- Interface Seal

Provides sealing between Female Connector and opposite mating element. It protects connection from water ingress.

- Locking Arm

Locks Connector Halves (Female and Male) if Connector is fully mated.

- 1 • Connector Position Assurance (CPA)
Checks if Connector is in mated position.

- Cavity

- Cavity Lance:

Allows movement of Housing Lance.

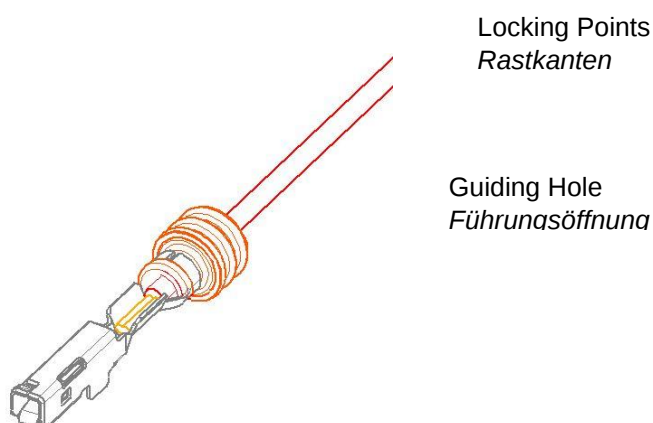
- Beak

Locking / Retention of Female Terminal

- Service Operation Tab:

Allow Beak releasing operation.

2.3.2 Female Terminals



Picture 4: Female Terminal

- Vordergehäuse

Nach dem Einsetzen aller Kontakte drücken Sie das Vordergehäuse aus der Vorraststellung in die Endraststellung. Dieser Vorgang prüft, ob alle Kontakte vollständig eingesetzt sind. Falls das Vordergehäuse nicht vollständig in der Endraststellung eingerückt ist, kann der Buchsenstecker nicht mit dem Flachstecker verbunden werden.

- Verbindungsichtung

Sorgt für die Dichtung zwischen dem Buchsenstecker und dem Gegenstecker. Sie schützt die Steckverbindung vor dem Eindringen von Wasser.

- Rastfederhaken

Verriegelt die Steckerhälften (Buchsen- und Flachstecker), wenn der Stecker vollständig gesteckt ist.

- 1 • Gehäuse Sekundärverriegelung (CPA)
Mit dem CPA wird überprüft, ob der Stecker vollständig gesteckt ist.

- Gehäusekammer

- Kammer-Rastfeder

Ermöglicht die Bewegung der Federzunge des Gehäuses.

- Federzunge

Rastung bzw. Festhalten des Buchsenkontakts.

- Eingriffsflachstück:

Ermöglicht den Eingriff zum Lösen der Federzunge.

2.3.2 Buchsenkontakte

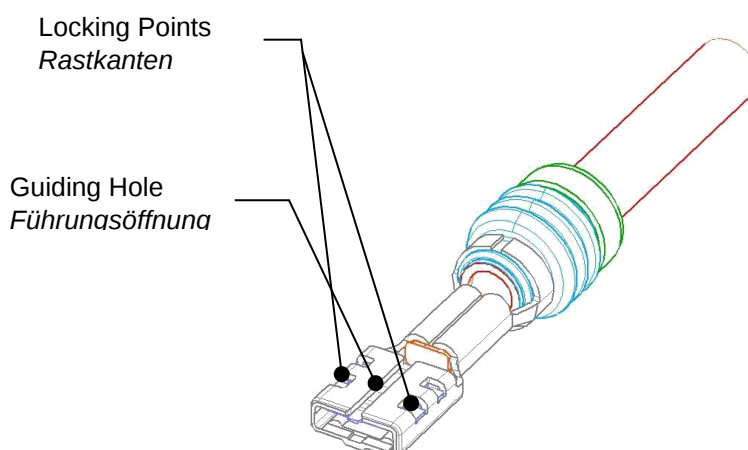
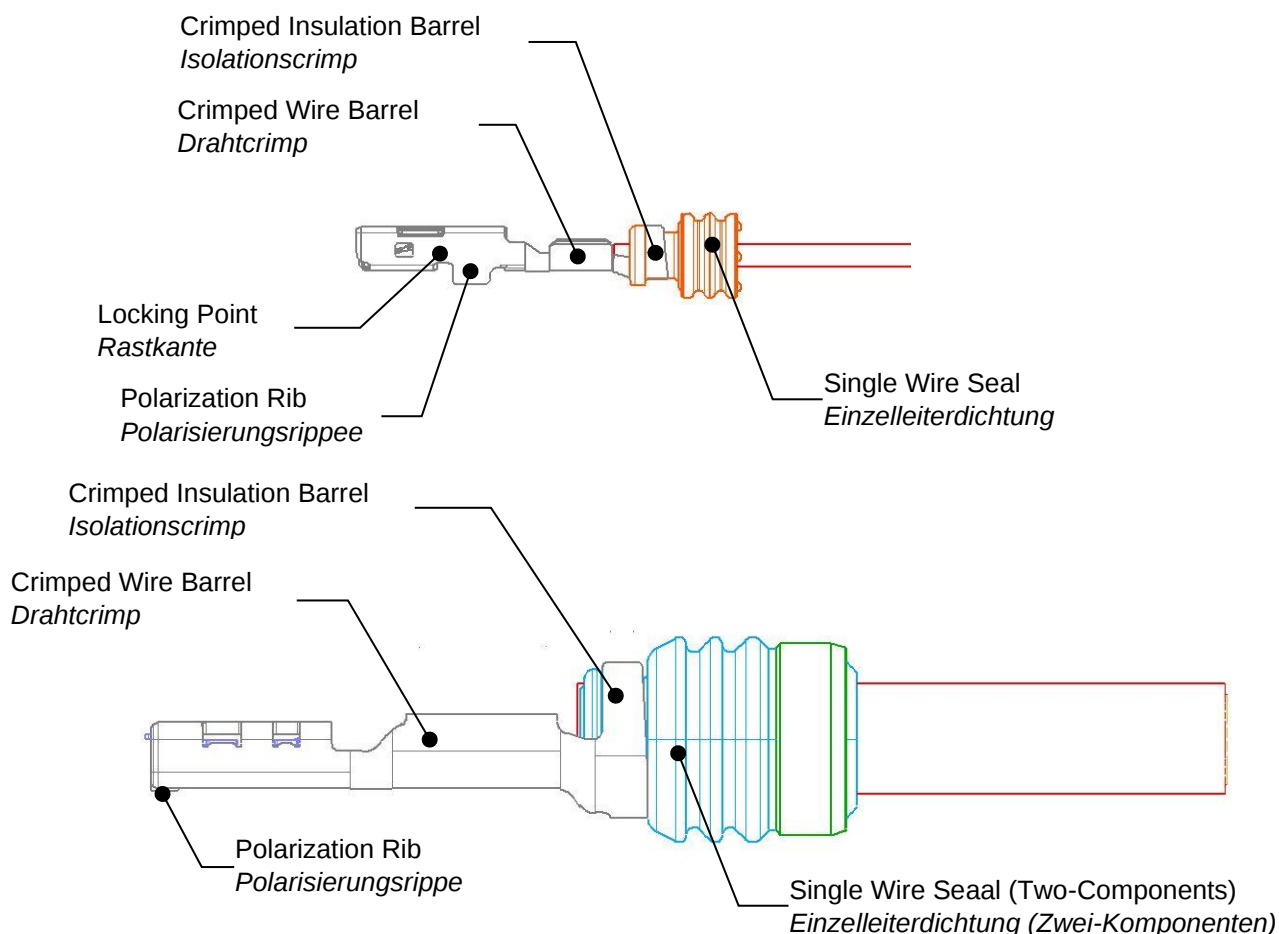


Abbildung 4: Buchsenkontakt

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Picture 5

Abbildung 5

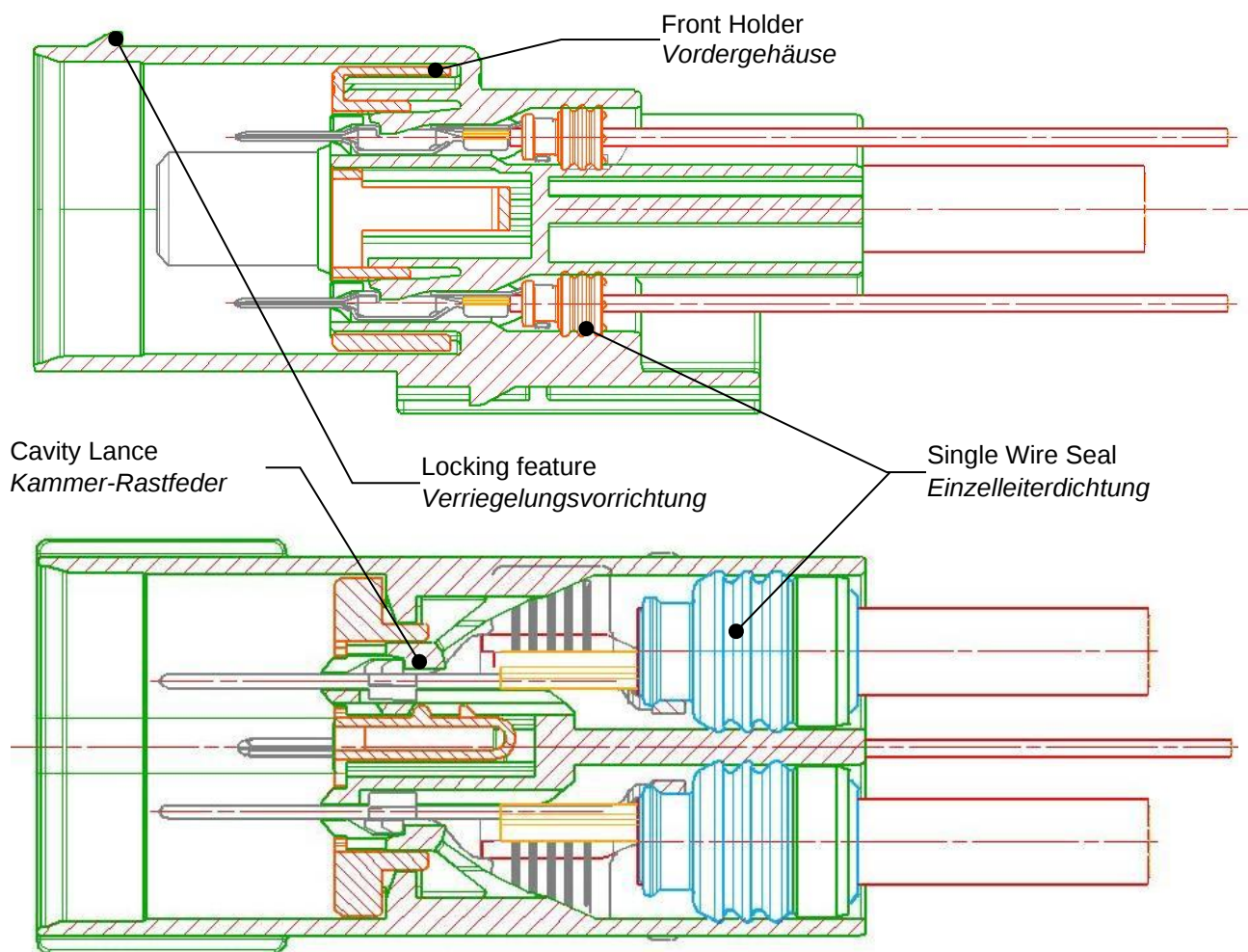
- Crimped Wire Barrel
Is crimped with the strains of the wire.
- Crimped Insulation Barrel
Is crimped with the Single Wire Seal and the lead insulation.
- Polarization Rib
Prevents Terminal against improper insertion.
- Locking Points
Edges provide locking with Cavity Lance.
- Single Wire Seal
Provides sealing between lead and Housing.

- Drahtcrimp
Drahtcrimp Ist gecrimpt mit der Litze der Leitung.
- Isolationscrimp
Ist mit der Einzelleiterdichtung und der Leiterisolation gecrimpt.
- Polarisierungsrippe
Verhindert falsches Einstecken des Kontakts.
- Rastkanten
Kanten dienen zum Verrasten mit der Kammer.
- Einzelleiterdichtung
Dient der Dichtung zwischen Leitung und Gehäuse.

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2.3.3 Male Connector with Front Holder

2.3.3 Flachstecker mit Vordergehäuse

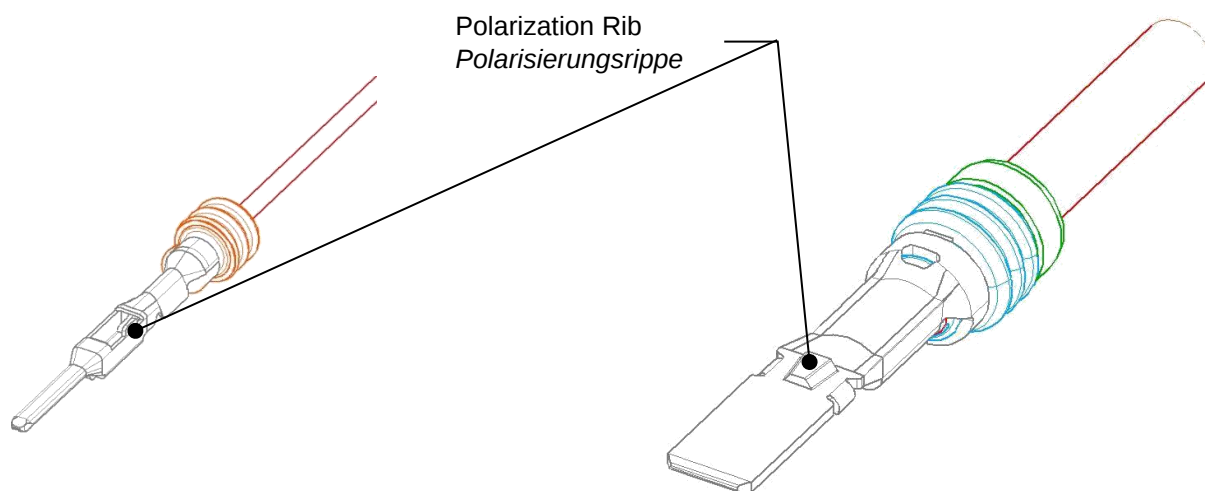


Picture 6

Abbildung 6

2.3.4 Male Terminals

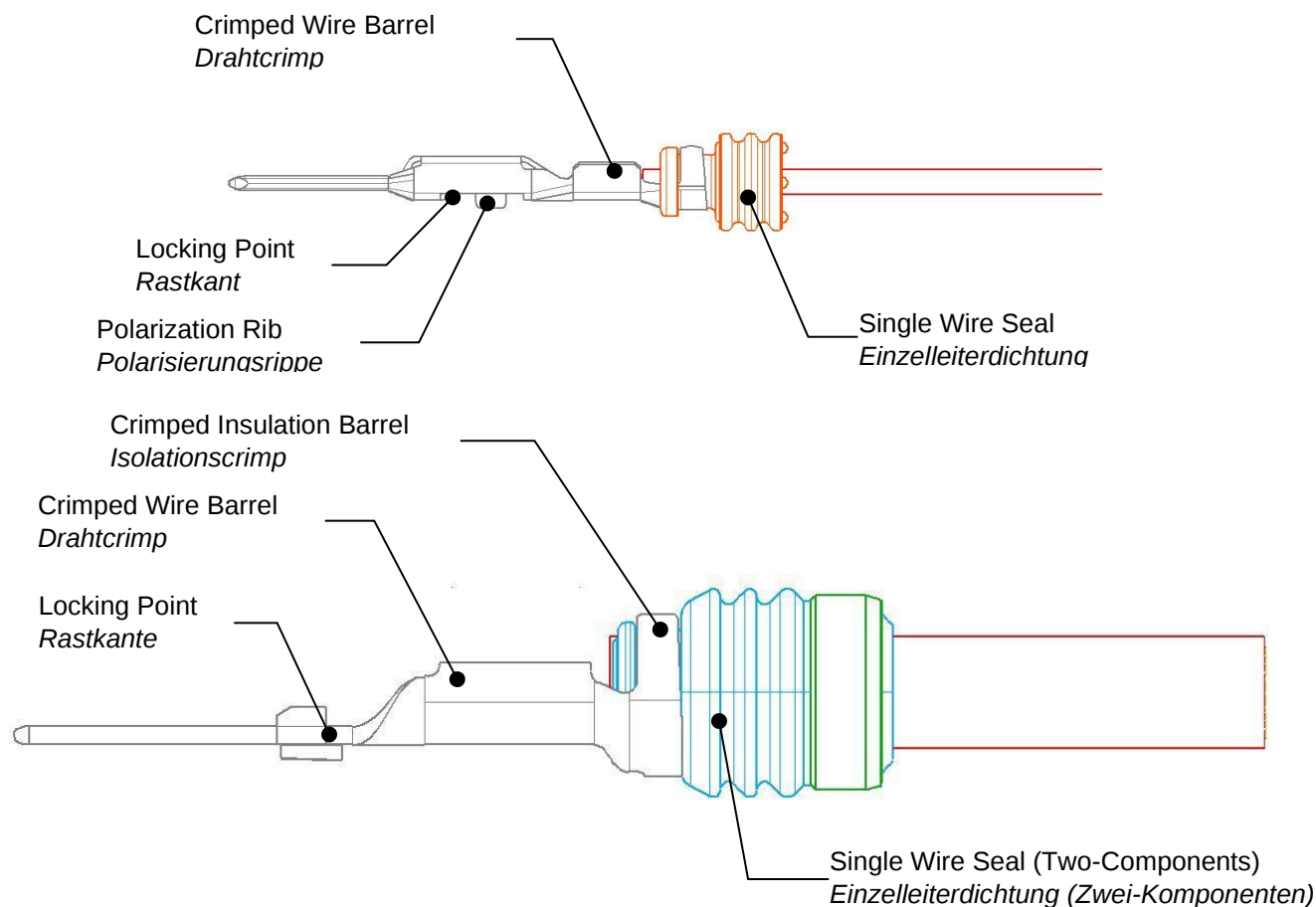
2.3.4 Flachsteckkontakt



Picture 7

Abbildung 7

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Picture 8

Abbildung 8

- **Crimped Wire Barrel**
Is crimped with the strains of the wire.
- **Crimped Insulation Barrel**
Is crimped with the Single Wire Seal and the lead insulation.
- **Polarization Rib**
Prevents Terminal against improper insertion.
- **Locking Point**
Edge provides locking with Cavity Lance.
- **Single Wire Seal**
Provides sealing between lead and Housing

- **Drahtcrimp**
Ist gecrimpt mit der Litze der Leitung.
- **Isolationscrimp**
Ist mit der Einzelleiterdichtung und der Leiterisolation gecrimpt.
- **Polarisierungsrippe**
Verhindert falsches Einstecken des Kontakts.
- **Rastkante**
Kante dient zum Verrasten mit der Kammer.
- **Einzelleiterdichtung**
Dient der Dichtung zwischen Leitung und Gehäuse

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3 Referenced Documents

3.1 Customer Drawings

The dimensions and materials are shown in the YAZAKI - Customer Drawings.

3.2 Product Standard

Product Standard YPES-11-04-162E defines performance, tests and quality requirements of the Connector.

3.3 Terminal Documents

All data about applicable Terminals are given in the referenced documents:

- Yazaki Drawings:
- YES Male Terminal: 7114-4102-02:R;
7114-4102-08:R;
- YES Female Terminal: 7116-4102-02:R;
7116-4102-08:R;
- YES SWS: 7158-3030-50:R;
- YPT Male Terminal: 7114-5623-02:R;
- YPT Female Terminal: 7116-5625-02:R;
- YPT SWS: 7158-3672-50:R.

3.4 Specifications

Connector meets specifications:

- SAE / USCAR-2 (Class 3) Connector Performance Specifications, Rev. 4.0;
- SAE / USCAR-12 (Class 3) Connector Performance Specifications, Rev. 3.0;
- Handling Manual for 9.5 WP YPT terminal: YPES-15-969E;
- Handling Manual for 1.5 WP YES terminal: YPES-15-298E.

3 Referenzdokumente

3.1 Kundenzeichnungen

Abmessungen und Werkstoffe werden in den YAZAKI – Kundenzeichnungen aufgeführt.

3.2 Produktstandard

Produktstandard YPES-11-04-162E beschreibt die Leistungen, die Prüfungen und Qualitätsanforderungen an den Steckverbinder.

3.3 Dokumente zu den Steckkontakten

Alle Daten zu den anwendbaren Steckkontakten sind in den Referenzdokumenten zu finden.

- Yazaki Zeichnungen:
- YES Flachkontakt: 7114-4102-02:R;
7114-4102-08:R;
- YES Buchsenkontakt: 7116-4102-02:R;
7116-4102-08:R;
- YES SWS: 7158-3030-50:R;
- YPT Flachkontakt: 7114-5623-02:R;
- YPT Buchsenkontakt: 7116-5625-02:R;
- YPT SWS: 7158-3672-50:R.

3.4 Spezifikationen

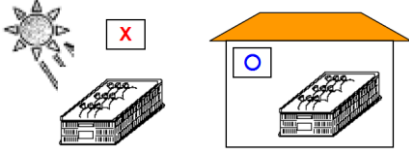
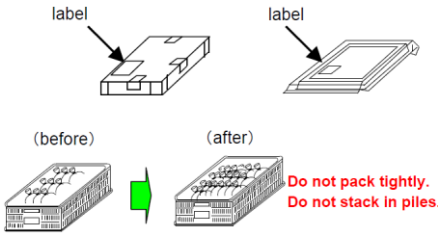
Stecker entspricht den Spezifikationen:

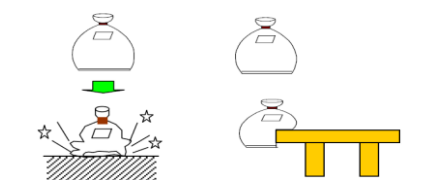
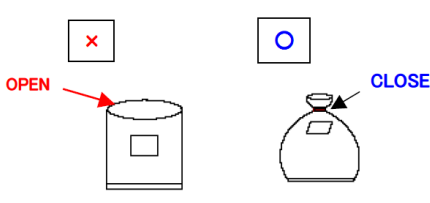
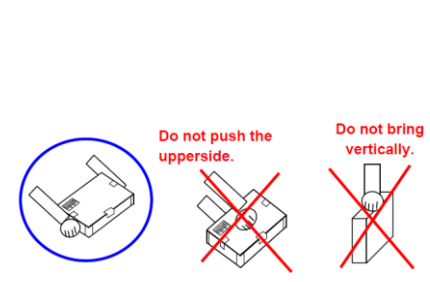
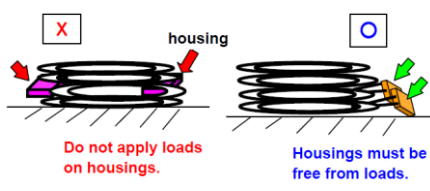
- SAE / USCAR-2 (Klasse 3) Connector Performance Specifications, Rev. 4.0;
- SAE / USCAR-12 (Klasse 3) Connector Performance Specifications, Rev. 3.0;
- Verarbeitungsspezifikation für 9.5 WP YPT Anschlußkontakte: YPES-15-969E;
- Verarbeitungsspezifikation für 1.5 WP YES Anschlußkontakte: YPES-15-298E.

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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.

YAZAKI empfiehlt Lagertemperaturen innerhalb von min -20 bis max 60°C mit 10% rel. Luftfeuchtigkeit / max 40°C mit 75% rel. Luftfeuchtigkeit und Verwendung des Produkts innerhalb von 12 Monaten nach Produktionsdatum. Diese Empfehlung hat keinen Einfluss auf Garantiestandards.

Control process / Kontrollprozess	Illustration / Illustration	Influence on quality / Einfluss auf die Qualität
Please store plastic and carton cases containing housing at room temperature avoiding moisture and direct sunlight. / Bitte lagern Sie Plastik- und Kartonschachteln mit Gehäuse bei Raumtemperatur und vermeiden Sie Feuchtigkeit und direktes Sonnenlicht. Please equalize housing temperature with room temperature. / Bitte gleichen Sie die Gehäusetemperatur mit der Raumtemperatur aus.		There are risks of breakage and discoloration due to housing material degradation. / Es besteht die Gefahr von Bruch und Verfärbung durch Verschlechterung des Gehäusematerials. There are risks of damage on lance, hinge and locking or other problems. / Es besteht die Gefahr von Schäden an Lanze, Scharnier und Verriegelung oder anderen Problemen.
Please make sure the label of the packages is clearly visible during storage. / Bitte stellen Sie sicher, dass das Etikett der Verpackungen während der Lagerung gut sichtbar ist. Please do not apply pressure to housings in bag packages during storage. / Bitte üben Sie während der Lagerung keinen Druck auf Gehäuse in Beutelverpackungen aus. Please do not replace plastic cases and carton boxes with storage boxes. / Bitte ersetzen Sie Plastikboxen und Kartons nicht durch Aufbewahrungsboxen.		There are risks of improper position of child parts, deformation or other problems. / Es besteht die Gefahr einer falschen Position der Kinderteile, einer Verformung oder anderer Probleme.

When handling housings, please pay attention not to damage the products. / Achten Sie beim Umgang mit Gehäusen darauf, die Produkte nicht zu beschädigen.		There are risks of deformation, breakage, improper position of child parts or loss of parts. / Es besteht die Gefahr von Verformung, Bruch, falscher Position von Kinderteilen oder Verlust von Teilen.
Please cover the product or store it in a plastic bag to protect it from dust. / Bitte decken Sie das Produkt ab oder bewahren Sie es in einer Plastiktüte auf, um es vor Staub zu schützen.		There is a risk of contact defect due to adherence of dust. / Es besteht die Gefahr eines Kontaktfehlers durch Anhaften von Staub.
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. / Halten Sie beim Tragen von Gehäusen die Unterseite des Behälters mit beiden Händen fest. Stellen Sie die Box nicht senkrecht und drücken Sie nicht auf die Oberseite der Box.		There are risks of deformation, damage or loss of parts. / Es besteht die Gefahr von Verformung, Beschädigung oder Verlust von Teilen.
Please store your products without applying loads on the housings. / Bitte lagern Sie Ihre Produkte ohne Belastung der Gehäuse.		There are risks of deformation due to the pressure of the weight and risks of breakage due to shock. / Es besteht Verformungsgefahr durch Gewichtsdruck und Bruchgefahr durch Stoß.

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5 Instructions for Installation

5.1 Terminal Insertion

-  Check, if the Front Holder is in Pre-Set Position. If the Front Holder is not in Pre-Set, pull it into Pre-set position following instructions in chapter 7.1.
- Align the Terminal and the Housing as shown in the Pictures 9 to 12; pay attention to the Terminal Guiding Rib.
- Then insert the terminal until an audible “click”- sound could be heard.  For 1,5mm Terminals the specified Insertion Tool No. 24040 or Tool ENT-YAZ-08-0017-98 shall be used.
- Additionally, press single wire seal (SWS) to assure complete insertion of the seal into the cavity. 
- Terminal is hooked by Cavity Lance as shown on Picture 12.
- After insertion, pull the wire slightly to check, if the terminal is locked.

Precautions:

Check for any foreign objects on terminals!

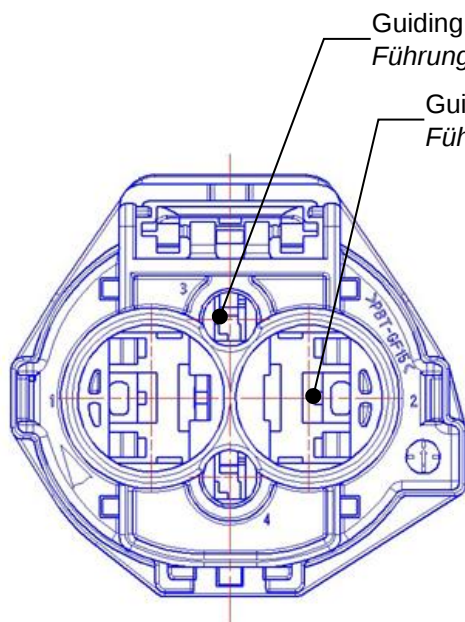
5 Hinweise zum Einbau

5.1 Einsetzen der Steckkontakte

-  Man prüfe, ob das Vordergehäuse in der Vorraststellung ist. Wenn das Vordergehäuse in der Vorraststellung nicht ist, zieht man ihn gemäß den Anweisungen in Kapitel 7.1 in den Vorraststellung.
- Man ordne Steckkontakt und Gehäuse so an, wie in den Abbildungen 9 bis 12 beschrieben ist; man achte auf die Führungsrippen am Steckkontakt.
- Dann setze man den Steckkontakt so ein, bis ein hörbares „Klick“ - Geräusch zu vernehmen ist. Für 1,5mm Steckkontakte soll das festgelegte Einsetzwerkzeug Nr. 24040 oder ENT-YAZ-08-0017-98 benutzt werden. 
- Während man die Einzelleiterdichtung drückt, um die Dichtung vollkommen einsetzen zu können. 
- Die Steckkontakte werden durch die Rastfedern in den Kontaktkammern fixiert, wie in Abbildung 12 gezeigt.
- Nach dem Einsetzen ist durch leichten Zug am Draht zu prüfen, ob der Steckkontakt verrastet ist.

Achtung:

Man prüfe, ob sich keine fremden Partikel am Kontakt befinden!



Picture 9

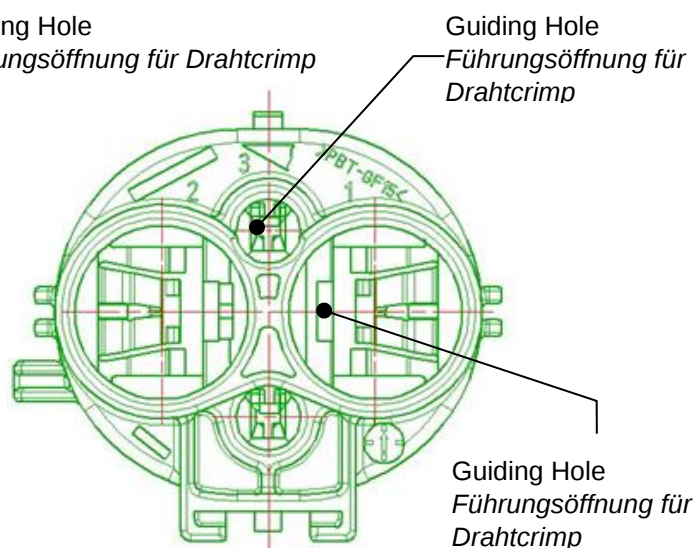
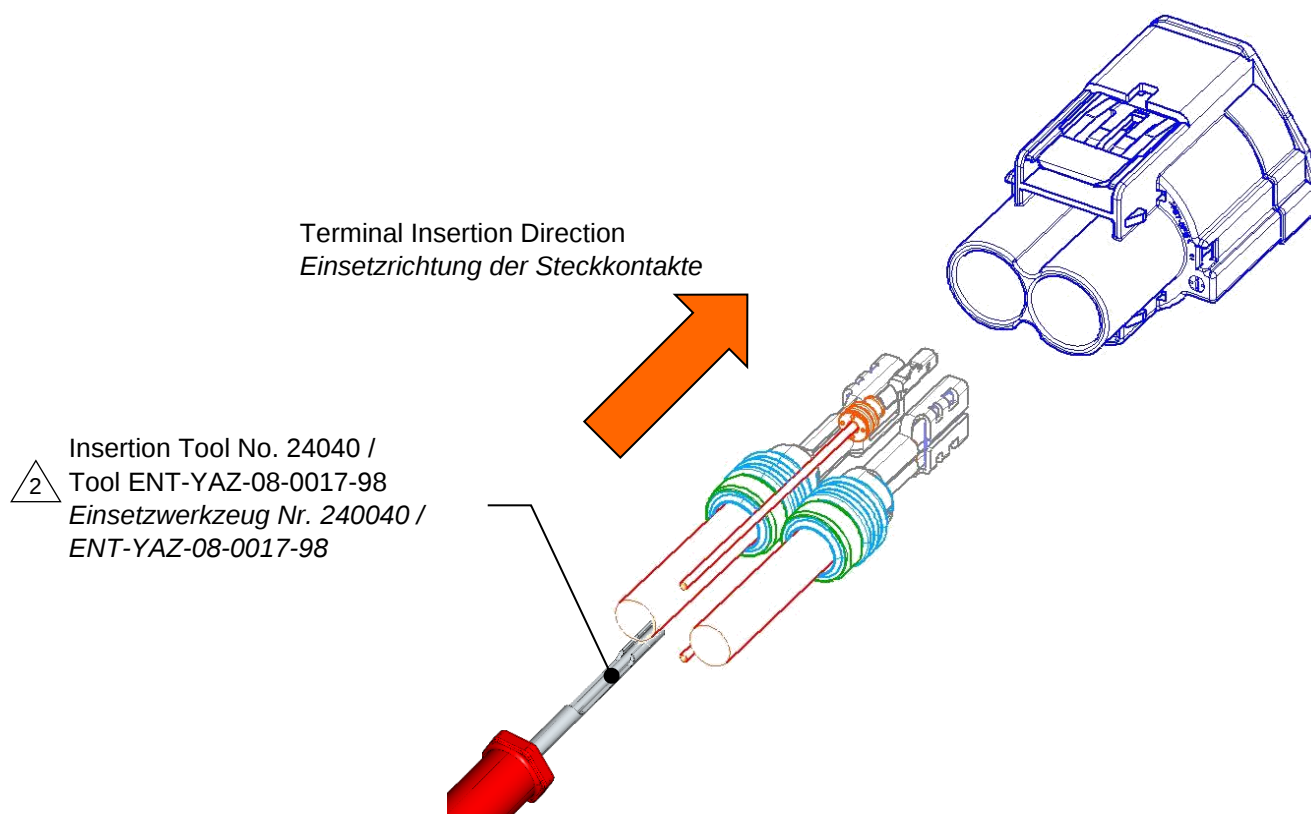


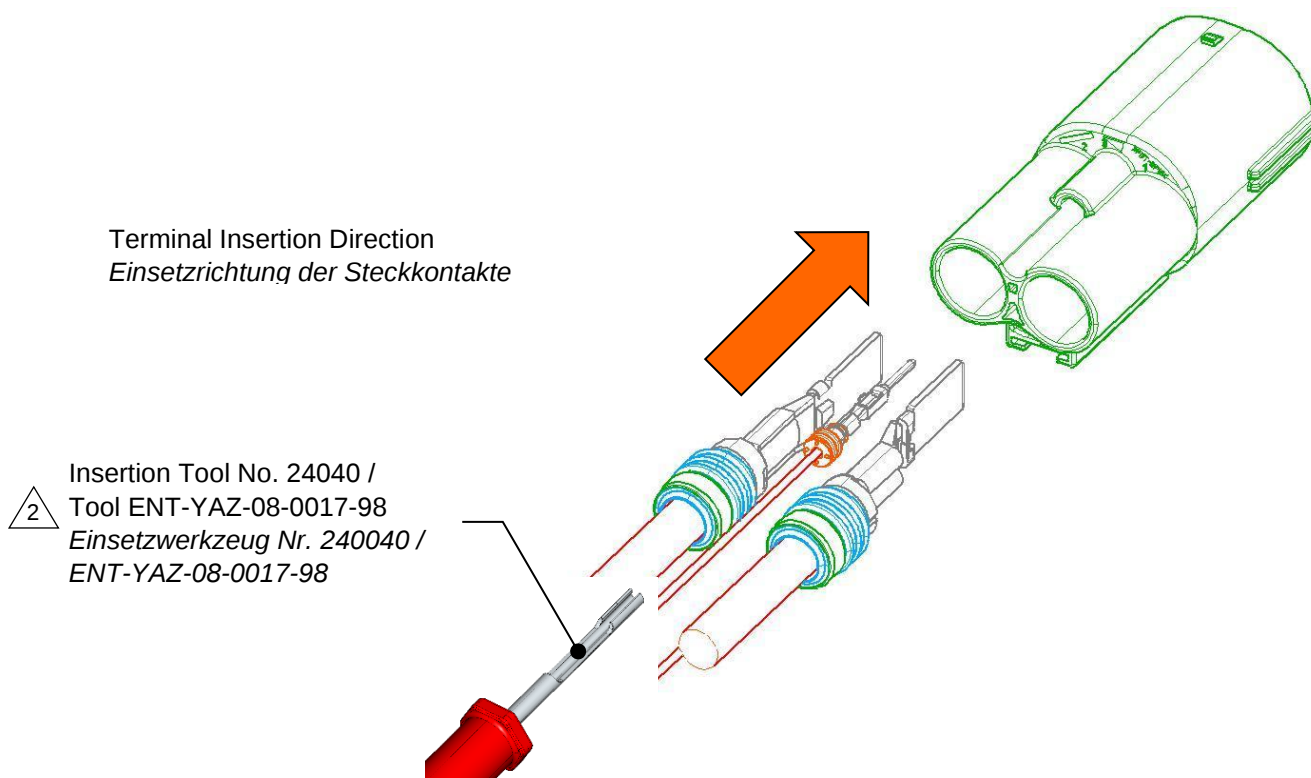
Abbildung 9

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Picture 10: Female Terminals

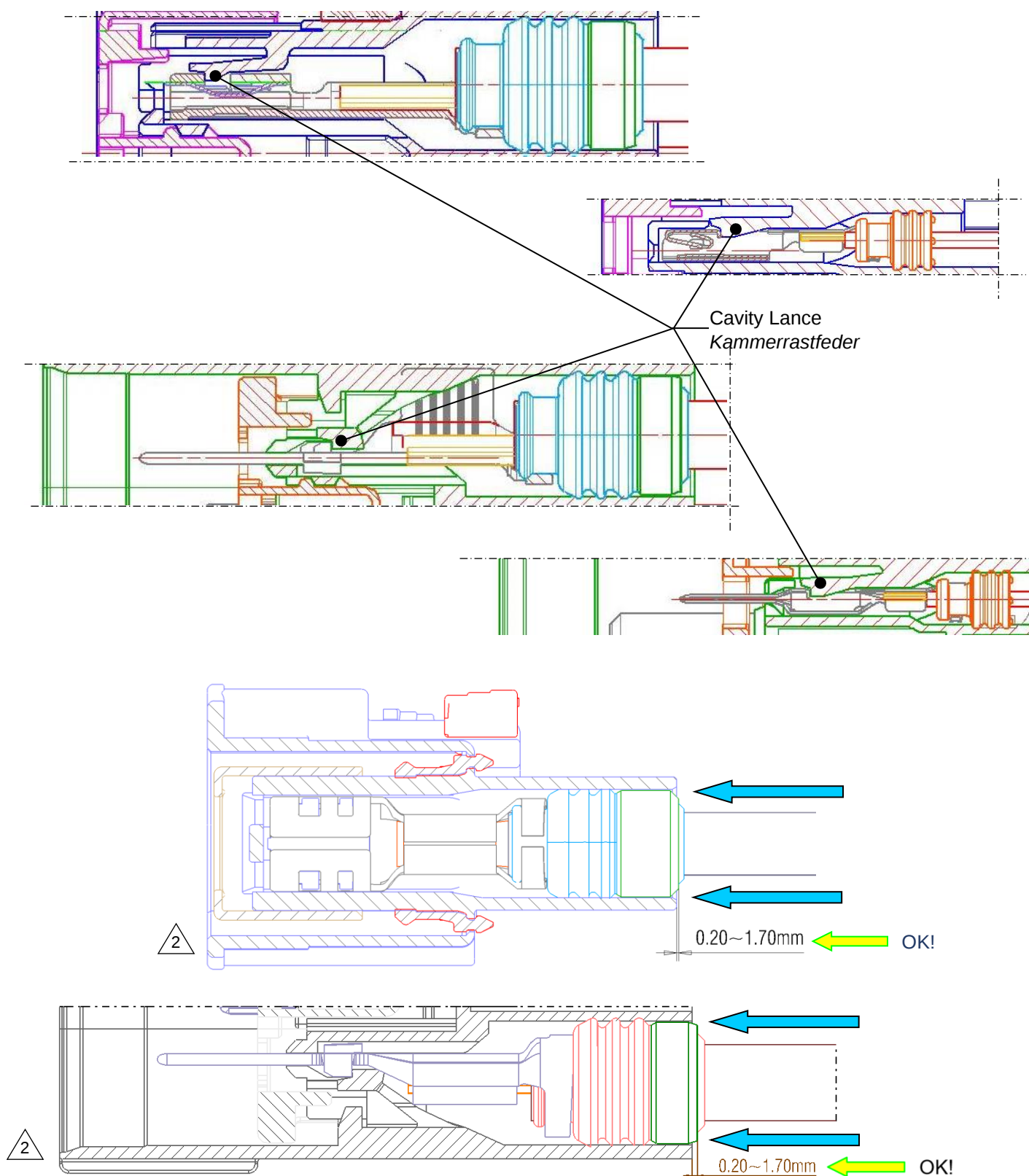
Abbildung10: Buchsenkontakte



Picture11: Male Terminals

Abbildung 11: Flachkontakte

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Picture 12

Abbildung 12

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5.2 Front Holder Insertion

After all Terminals are inserted, push Front Holder into the direction of the arrow until it is aligned with surface at Connector (as shown on Pictures 13 and 14).

Precautions:

After pushing Font Holder into the Set Position, check that the back surface of Front Holder is aligned i.e. inside of the surface on the inner surface of the Female Housing.

If Front Holder cannot be inserted smoothly or not at all, Terminals may be inserted incompletely. Therefore, check that Terminals have been inserted properly.

5.2 Einsetzen des Vordergehäuses

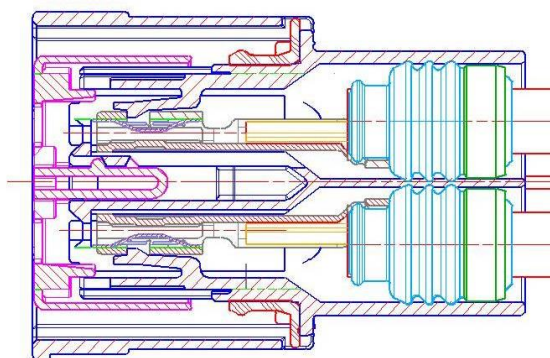
Wenn alle Steckkontakte eingesetzt sind, ist das Vordergehäuse in Pfeilrichtung zu schieben, bis es mit der Vorderfront des Steckers in einer Ebene liegt (siehe Darstellung in Abbildungen 13 und 14).

Achtung:

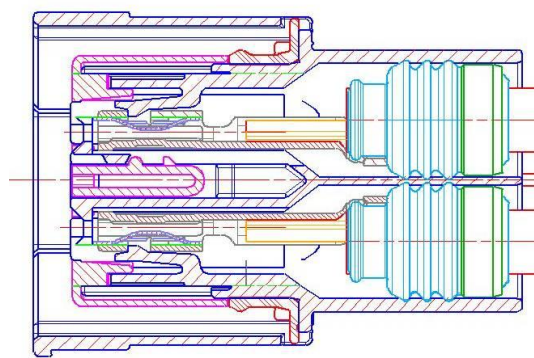
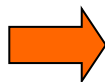
Nachdem man das Vordergehäuse in die Raststellung geschoben hat, ist zu überprüfen, dass die rückwärtige Fläche des Vordergehäuses bündig bzw. innerhalb der Fläche des Buchsengehäuses angeordnet ist.

Falls das Vordergehäuse nicht sanft oder überhaupt nicht eingesetzt werden kann, könnten die Steckkontakte nicht vollständig eingesetzt sein. Deshalb prüfe man, ob die Steckkontakte ordnungsgemäß eingesetzt sind.

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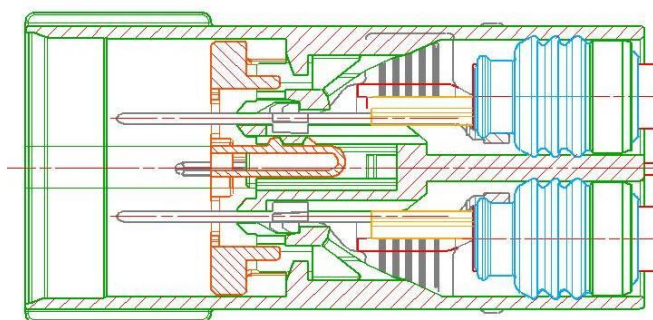
Front Holder in Pre-Set Position
Vordergehäuse in Vorraststellung



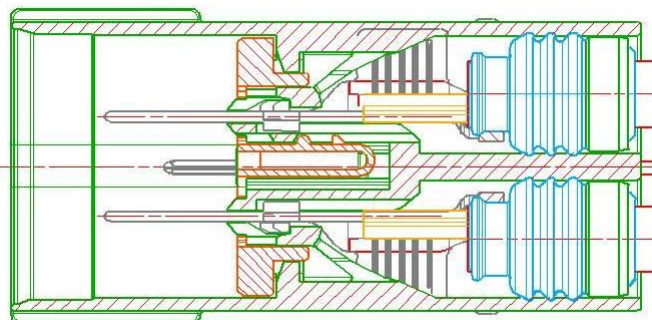
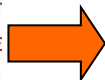
Front Holder in Set Position
Vordergehäuse in Endraststellung

Male Connector
Picture 13

Flachstecker
Abbildung 13



Front Holder in Pre-Set Position
Vordergehäuse in Vorraststellung



Male Connector
Picture 14

Flachstecker
Abbildung 14

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2 **6 Electrical control of terminals**

6.1 Connector condition before testing

Before any testing starts, make sure that appropriate terminals and SWS crimped on the wire are inserted into the corresponding 2P/ 3P/ 4P Sealed Hybrid Connector. It is necessary that front holders are in set position and CPA shall remain in pre-set position.

Precautions:

Trained technicians only should perform the testing.

6.2 Support areas (clamping)

It is not allowed to clamp locking areas of the connector during electrical or sealing test. Allowed clamping zones are indicated in picture 15.

2 **6 Elektrische Steuerung von Buchsenkontakt**

6.1 Zustand des Buchsensteckers vor dem Testen

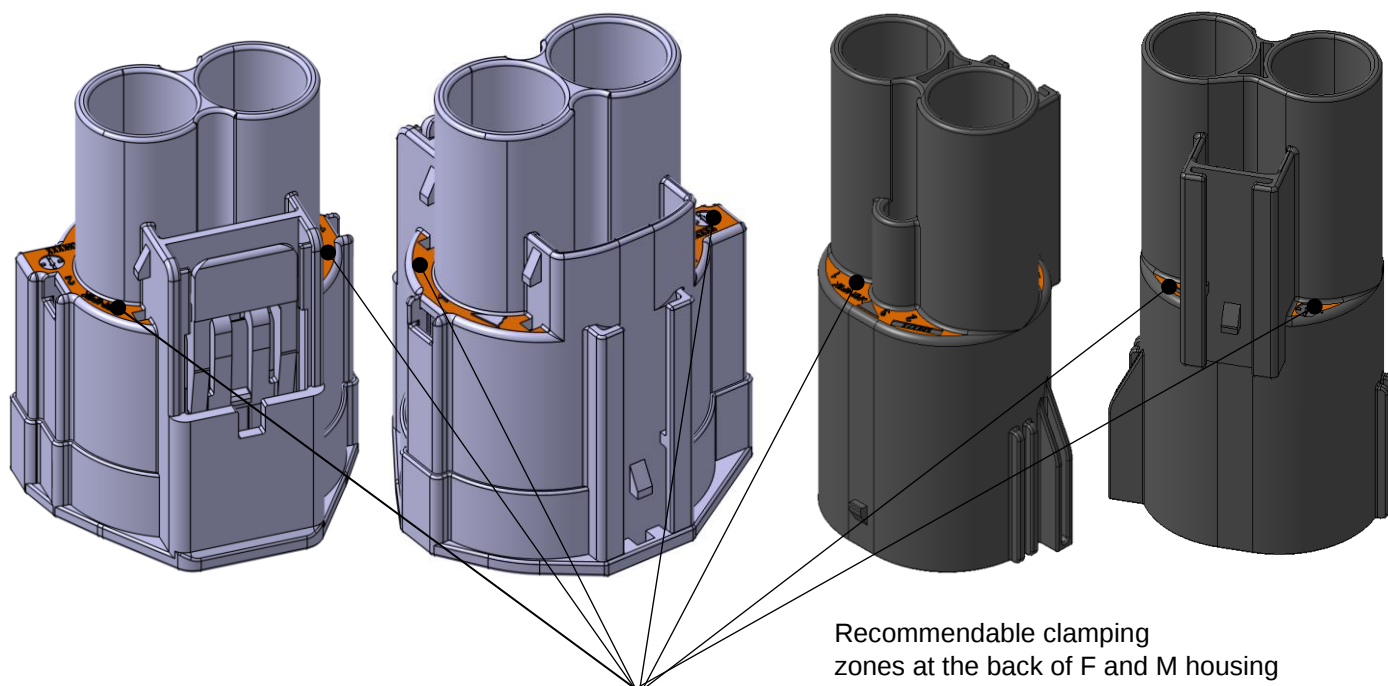
Stellen Sie vor Beginn der Tests sicher, dass die entsprechenden Buchsenkontakt und der am Kabel gecrimpte SWS in die 2P/ 3P/ 4P System gedichteten Hybrid-Steckers eingesteckt sind. Es ist erforderlich, dass sich die vorderen Halter in der eingestellten Position befinden und der CPA (optional) in der voreingestellten Position bleibt.

Vorsicht:

Nur geschulte Techniker sollten die Tests durchführen.

6.2 Stützbereiche (Klemmung)

Es ist nicht gestattet, Verriegelungsbereiche des Steckverbinders während des Elektro- oder Dichtungstests festzuklemmen. Zulässige Klemmzonen sind in Abbildung 15 angegeben



Picture 15 / Abbildung 15

Precautions:

Press-on force shall be 100N maximum.

Vorsicht:

Die Druckkraft darf maximal 100 N betragen.

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6.3 Female Testing pin definition - YPT 9,5mm

Any tool used for wiring and continuity inspections shall use equivalent shape and tolerances of the interface, but without locking - not to deform the housing or terminals.

For YPT 9,5 mm test pin description, refer to pictures 16, 17, 18 where space where test probe can be inserted is indicated.

One probe only should be sufficient per terminal, even though two can be placed in defined space.

Recommended plating for the probe: gold (Au).

Precautions:

Replace any damaged or deformed component with a new one

6.3 Weiblicher teststift definition – YPT 9,5mm

Jedes Werkzeug, das für Verkabelungs- und Durchgangsprüfungen verwendet wird, muss die gleiche Form und Toleranzen der Schnittstelle aufweisen, jedoch ohne Verriegelung, um das Gehäuse oder die Klemmen nicht zu verformen.

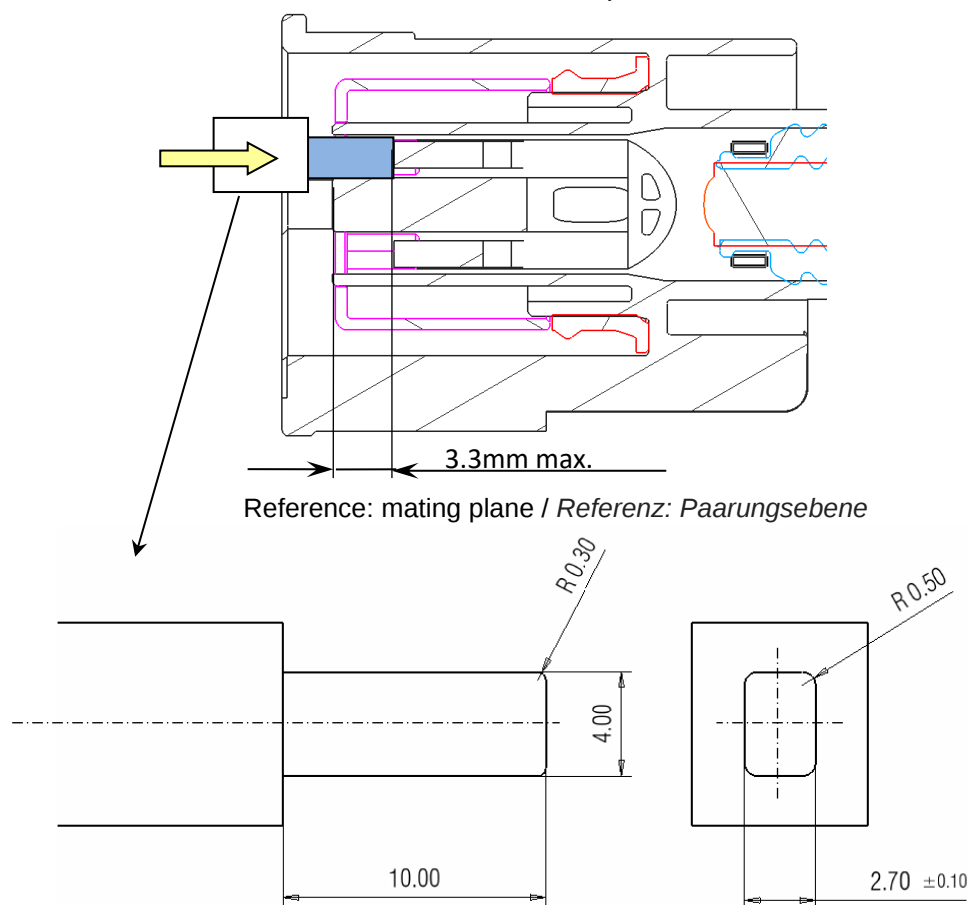
Eine Beschreibung der YPT 9,5 mm Teststifte finden Sie in Abbildung 16, 17, 18 in der der Bereich angegeben ist, in den die Testsonde eingeführt werden kann.

Pro Buchsenkontakt sollte nur eine Sonde ausreichen, obwohl zwei in einem definierten

Raum platziert werden können.
Empfohlene Beschichtung für die Sonde: Gold (Au).

Vorsicht:

Ersetzen Sie beschädigte oder deformierte Komponenten durch neue.

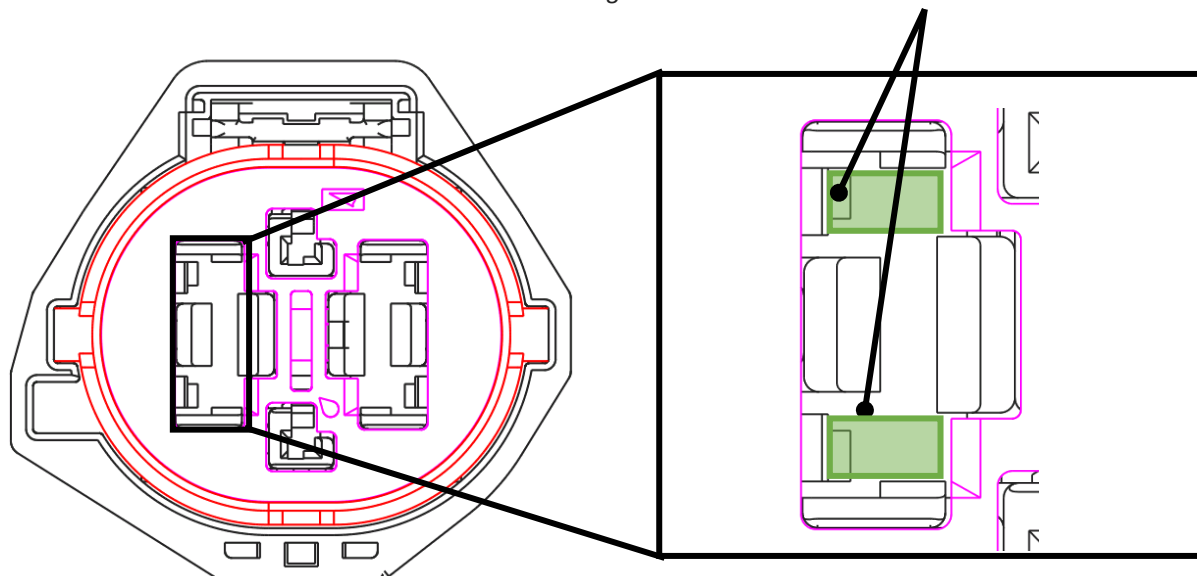


Picture 16 Testing pin definition

Abbildung 16

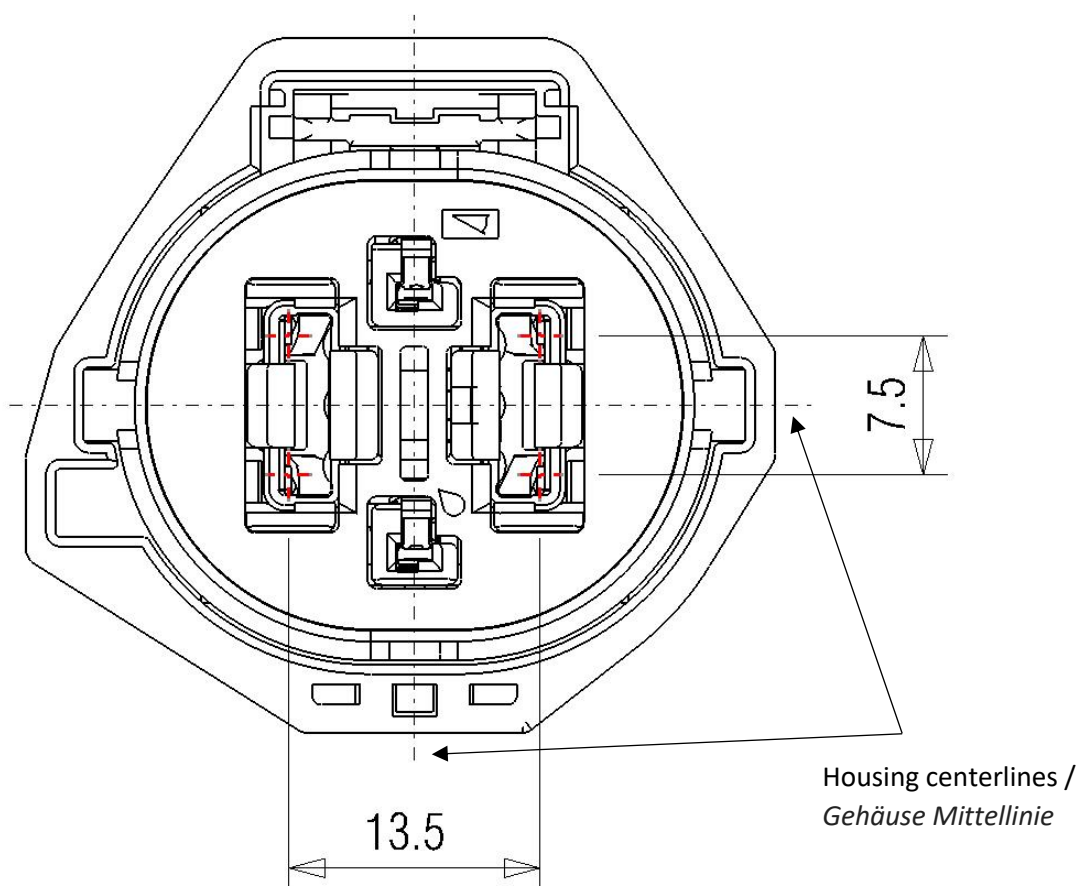
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Picture 17 Opening for probe pin

Abbildung 17 Öffnung für Sondenstift



Picture 18 Probe pin positions Abbildung 18 Sondenstiftpositionen

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6.4 Female Testing pin definition - YESC 1,5mm

Any tool used for wiring and continuity inspections shall use equivalent shape and tolerances of the interface, but without locking - not to deform the housing or terminals.

For YESC 1,5 mm test pin description, refer to pictures 19, 20, 21 where space where test probe can be inserted is indicated.

One probe only should be sufficient per terminal, even though two can be placed in defined space.

Recommended plating for the probe: gold (Au).

Precautions:

Replace any damaged or deformed component with a new one

6.4 Weiblicher Teststift definition – YESC 1,5mm

Jedes Werkzeug, das für Verkabelungs- und Durchgangsprüfungen verwendet wird, muss die gleiche Form und Toleranzen der Schnittstelle aufweisen, jedoch ohne Verriegelung, um das Gehäuse oder die Klemmen nicht zu verformen.

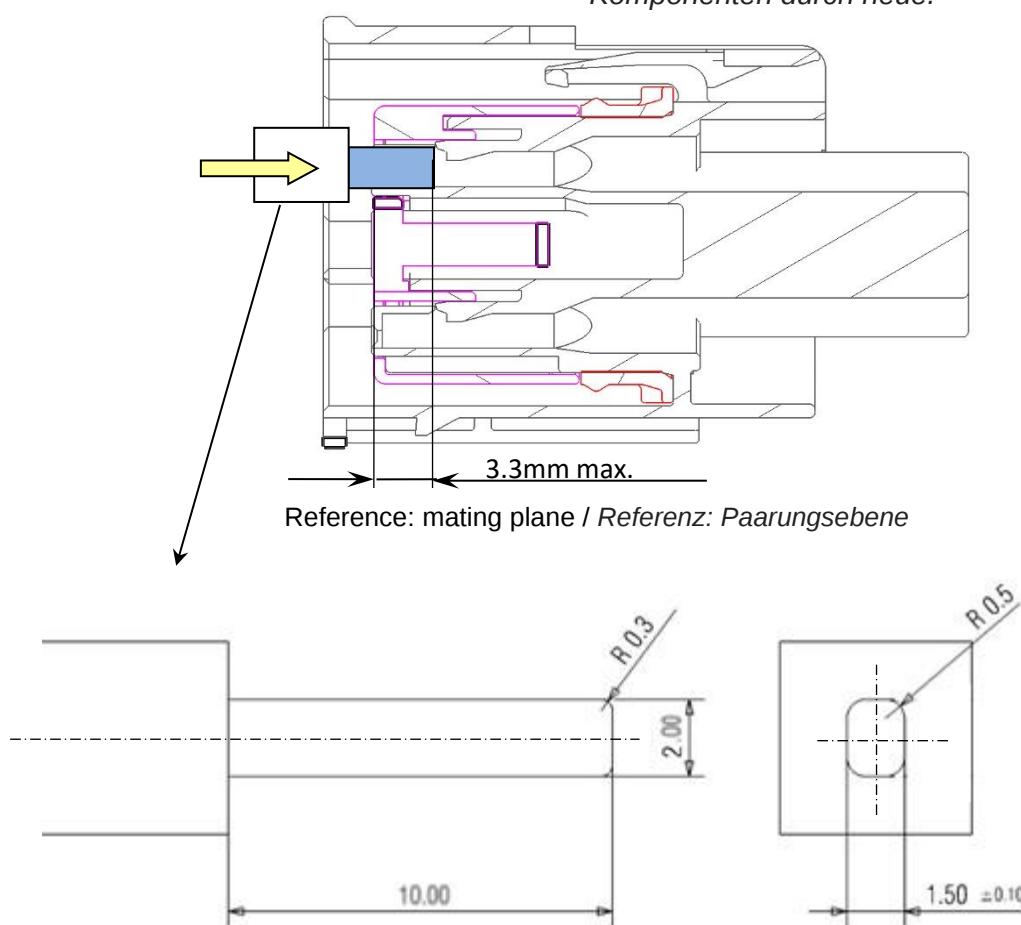
Eine Beschreibung der YESC 1,5 Teststifte finden Sie in Abbildung 19,20,21 in der der Bereich angegeben ist, in den die Testsonde eingeführt werden kann.

Pro Buchsenkontakt sollte nur eine Sonde ausreichen, obwohl zwei in einem definierten Raum platziert werden können.

Empfohlene Beschichtung für die Sonde: Gold (Au).

Vorsicht:

Ersetzen Sie beschädigte oder deformierte Komponenten durch neue.

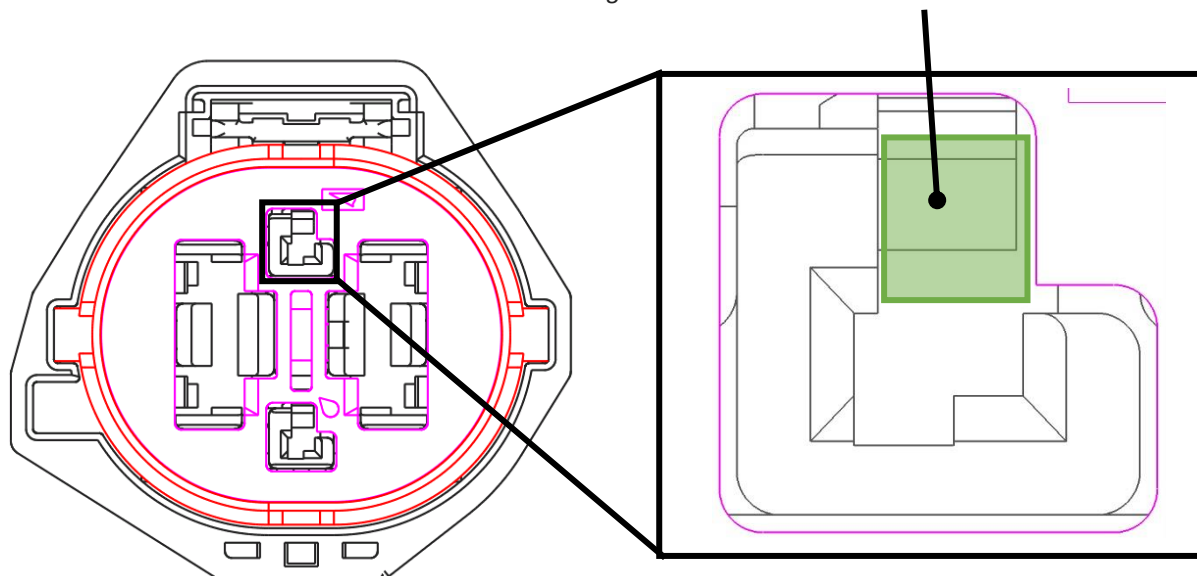


Picture 19 Testing pin definition

Abbildung 19

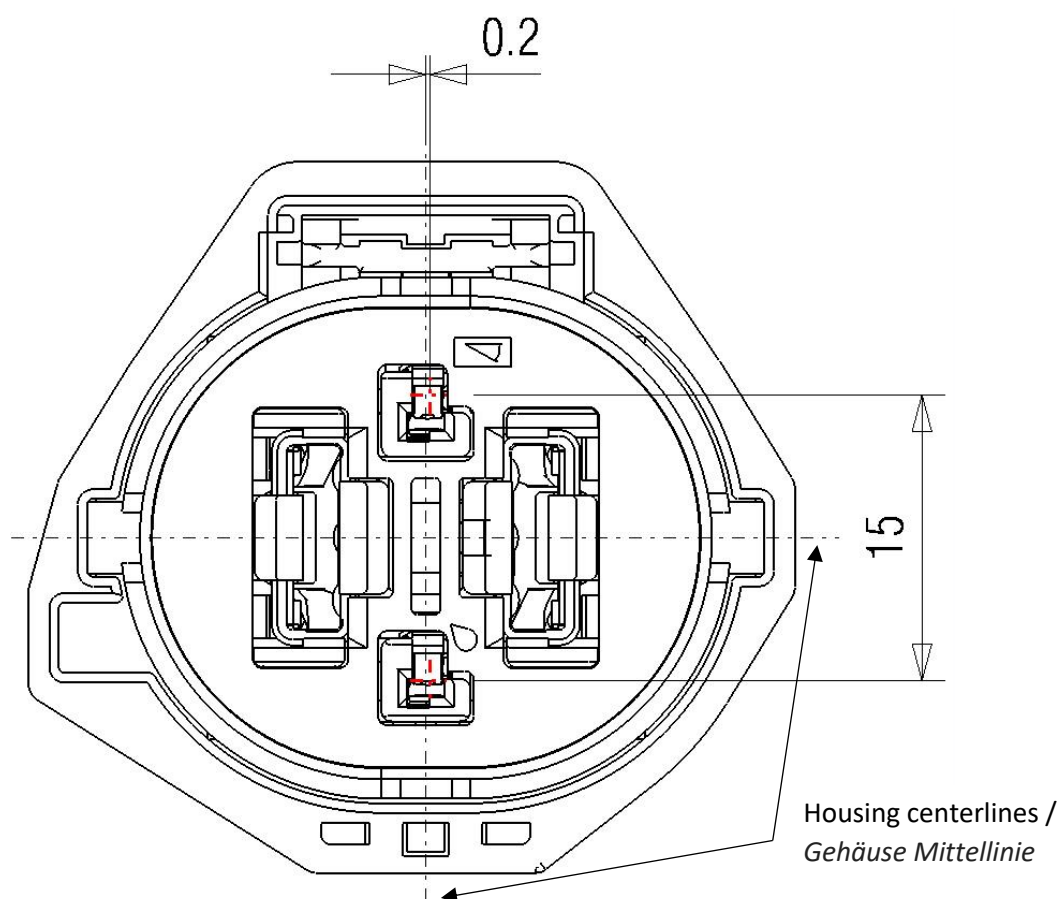
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Picture 20 Opening for probe pin

Abbildung 20 Öffnung für Sondenstift



Picture 21 Probe pin positions Abbildung 21 Sondenstiftpositionen

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6.5 Male Testing pin definition - YPT 9,5mm

Any tool used for wiring and continuity inspections shall use equivalent shape and tolerances of the interface, but without locking - not to deform the housing or terminals.

For YPT 9,5 mm test pin description, refer to pictures 22, 23, 24 where space where test probe can be inserted is indicated.

One probe only should be sufficient per terminal, even though two can be placed in defined space.

Recommended plating for the probe: gold (Au).

Precautions:

Replace any damaged or deformed component with a new one

6.5 Männlicher teststift definition – YPT 9,5mm

Jedes Werkzeug, das für Verkabelungs- und Durchgangsprüfungen verwendet wird, muss die gleiche Form und Toleranzen der Schnittstelle aufweisen, jedoch ohne Verriegelung, um das Gehäuse oder die Klemmen nicht zu verformen.

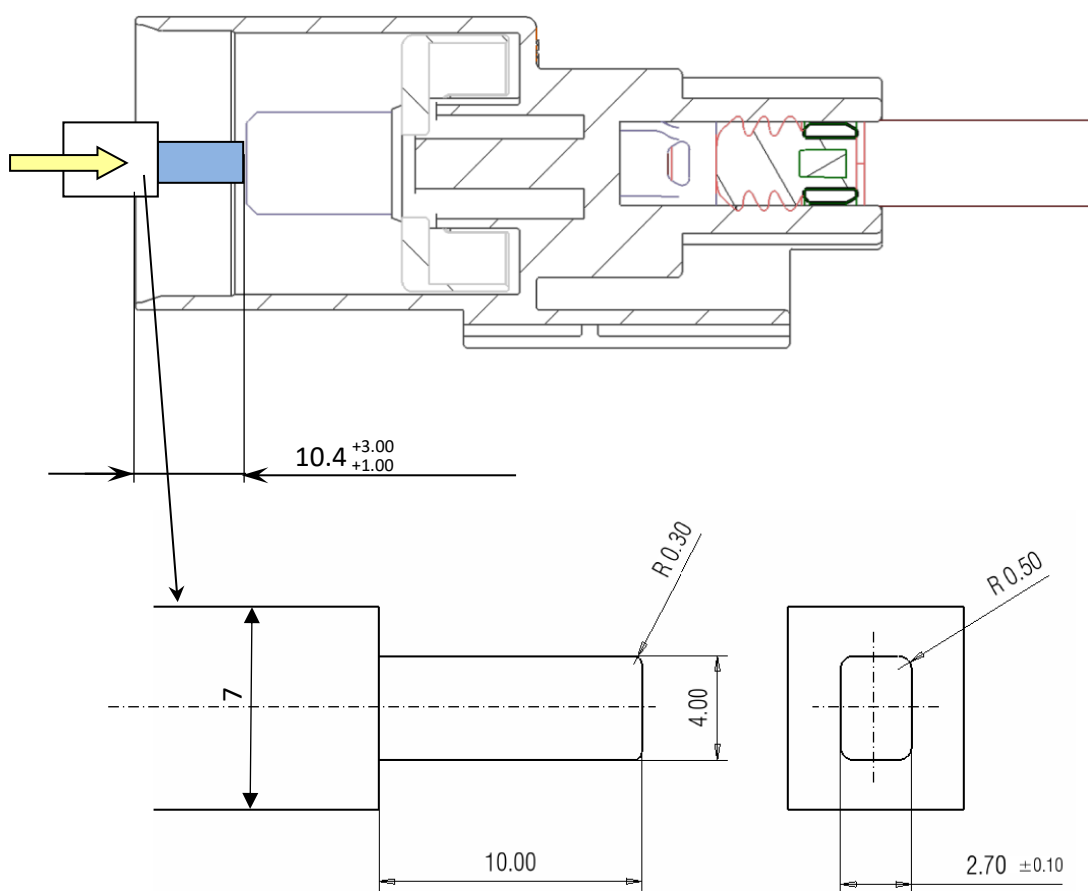
Eine Beschreibung der Teststifte finden Sie in Abbildung 22, 23, 24 in der der Bereich angegeben ist, in den die Testsonde eingeführt werden kann.

Pro Buchsenkontakt sollte nur eine Sonde ausreichen, obwohl zwei in einem definierten

Raum platziert werden können.
Empfohlene Beschichtung für die Sonde: Gold (Au).

Vorsicht:

Ersetzen Sie beschädigte oder deformierte Komponenten durch neue.

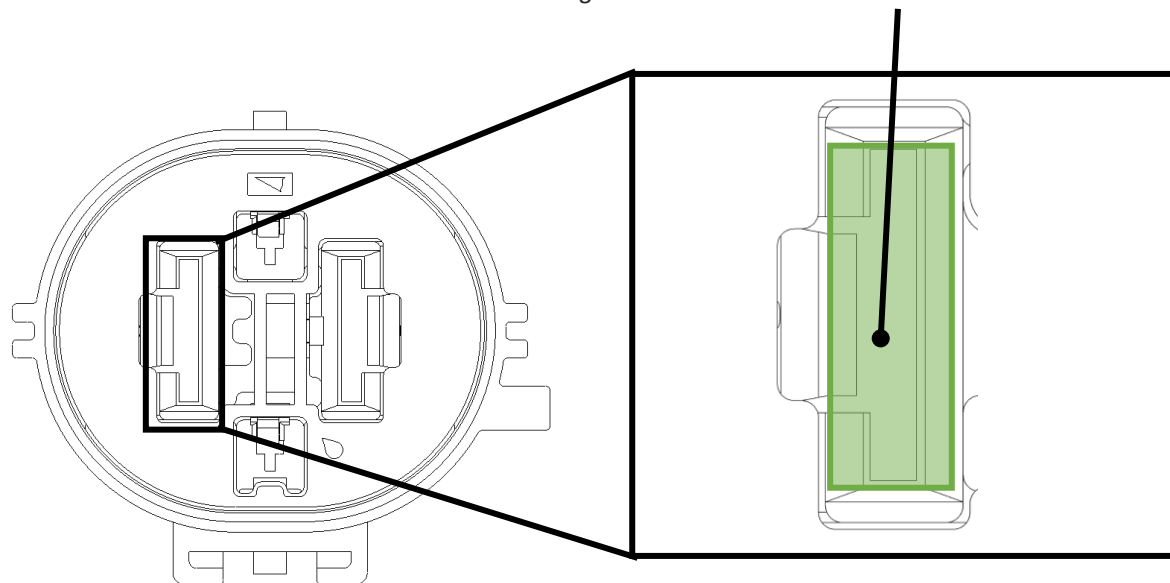


Picture 22 Testing pin definition

Abbildung 22

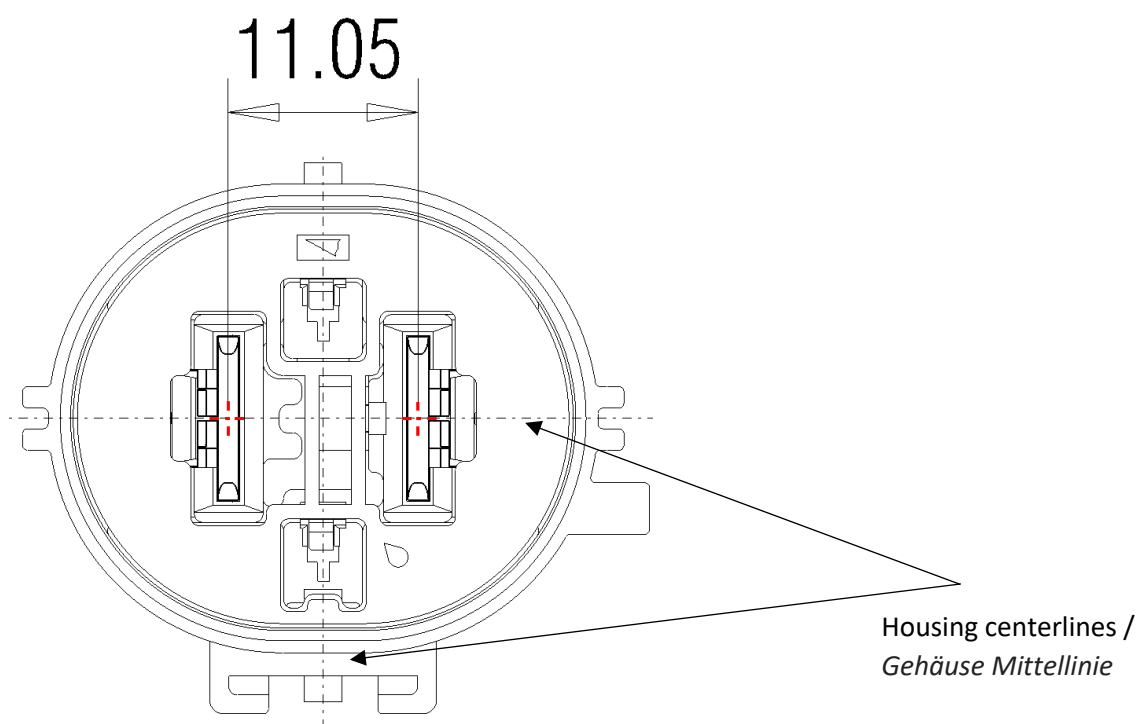
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Picture 23 Opening for probe pin

Abbildung 23 Öffnung für Sondenstift



Picture 24 Probe pin positions Abbildung 24 Sondenstiftpositionen

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6.6 Male Testing pin definition - YESC 1,5mm

Any tool used for wiring and continuity inspections shall use equivalent shape and tolerances of the interface, but without locking - not to deform the housing or terminals.

For YESC 1,5mm test pin description, refer to pictures 25, 26, 27 where space where test probe can be inserted is indicated.

One probe only should be sufficient per terminal, even though two can be placed in defined space.

Recommended plating for the probe: gold (Au).

Precautions:

Replace any damaged or deformed component with a new one

6.6 Männlicher teststift definition – YESC 1,5mm

Jedes Werkzeug, das für Verkabelungs- und Durchgangsprüfungen verwendet wird, muss die gleiche Form und Toleranzen der Schnittstelle aufweisen, jedoch ohne Verriegelung, um das Gehäuse oder die Klemmen nicht zu verformen.

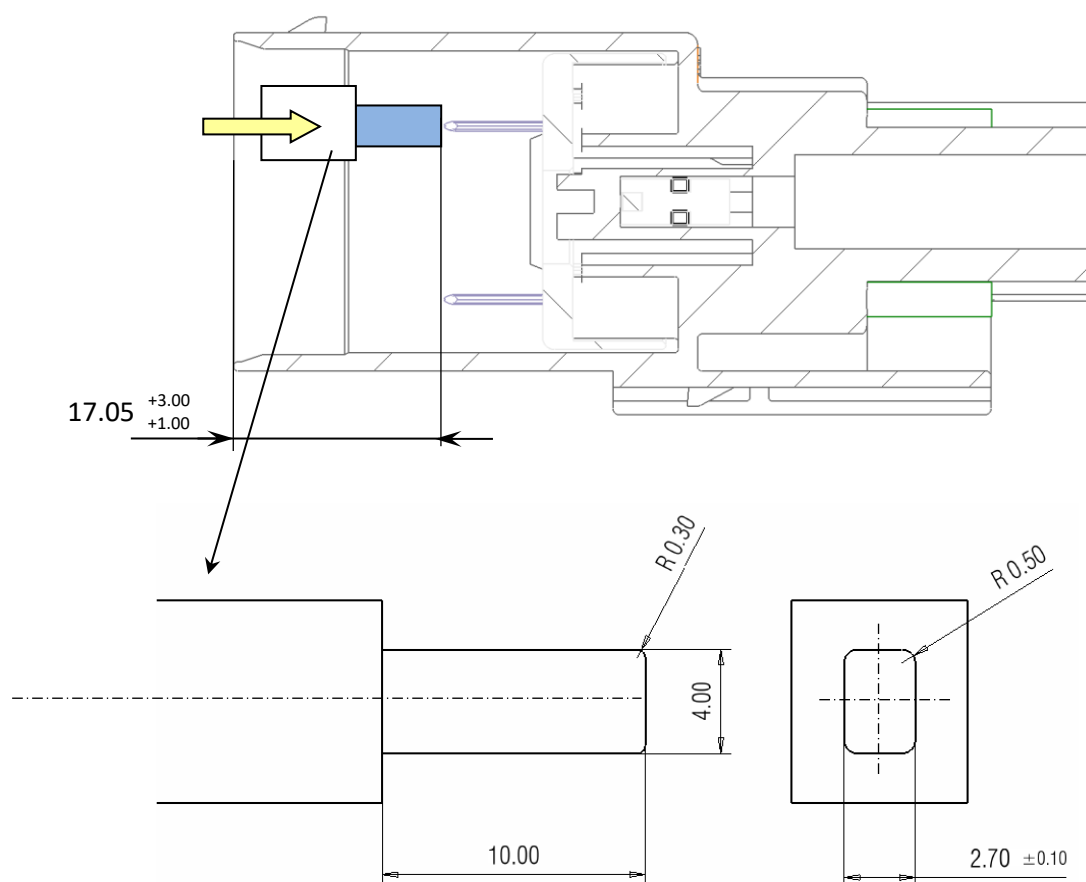
Eine Beschreibung der Teststifte finden Sie in Abbildung 25, 26, 27 in der der Bereich angegeben ist, in den die Testsonde eingeführt werden kann.

Pro Buchsenkontakt sollte nur eine Sonde ausreichen, obwohl zwei in einem definierten Raum platziert werden können.

Empfohlene Beschichtung für die Sonde: Gold (Au).

Vorsicht:

Ersetzen Sie beschädigte oder deformierte Komponenten durch neue.

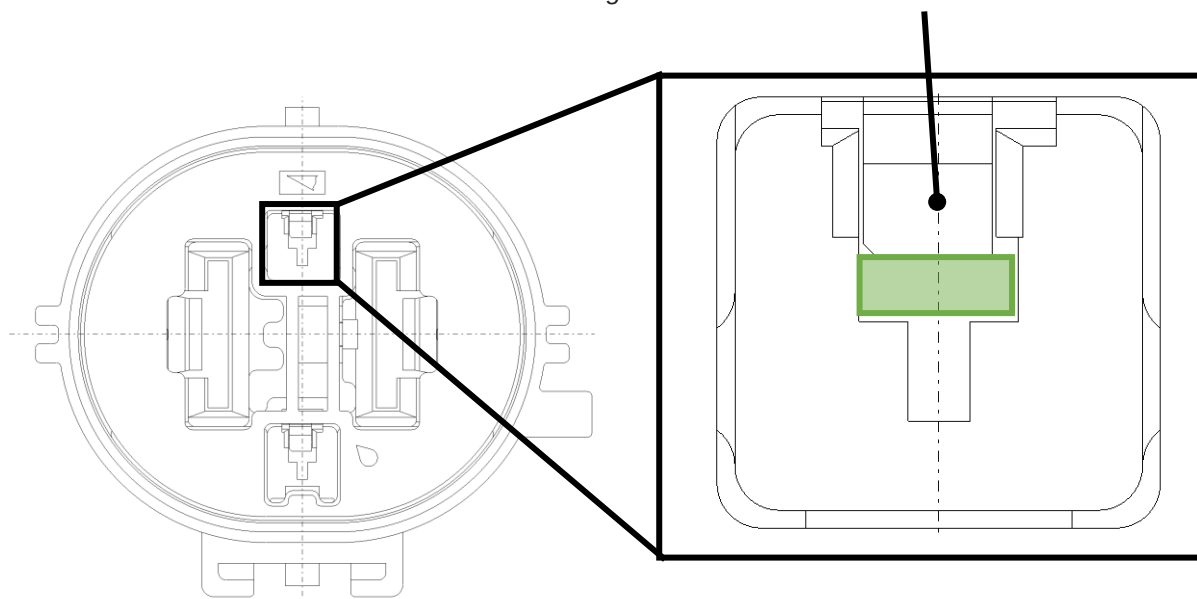


Picture 25 Testing pin definition

Abbildung 25

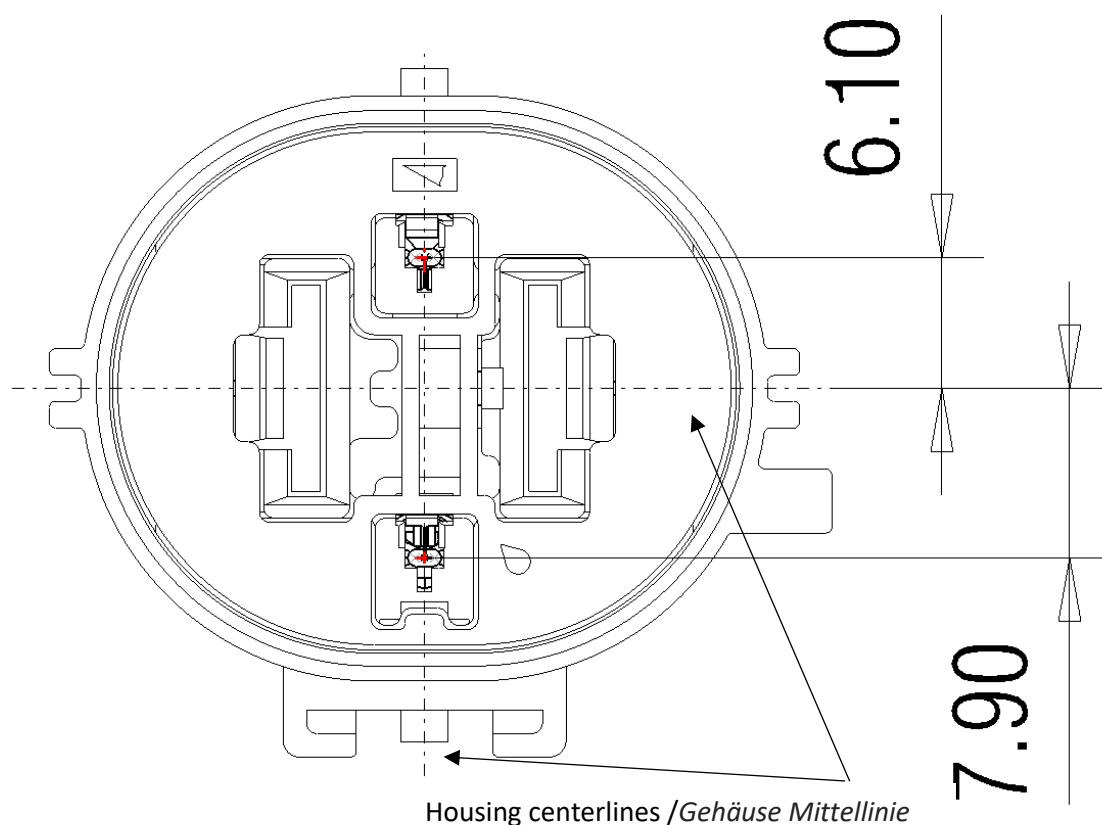
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Picture 26 Opening for probe pin

Abbildung 26 Öffnung für Sondenstift



Picture 27 Probe pin positions Abbildung 27 Sondenstiftpositionen

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6.7 Sealing test

IMPORTANT!

Sealed connector must pass 100% leak test at the harness maker's factory;

Trained operator only should perform the testing.

Before the testing starts, ensure that:

- Appropriate terminals with applicable wire seals are inserted into connector;
- Appropriate plugs are inserted into empty connector cavities;
- The TPA is in the set position and the CPA remains in the pre-set position (optional).

Precautions:

- Sealing test has to be performed after electrical test. It is important to check if the terminals are completely inserted into the housing, otherwise the connector might leak.
- The pressure checker must be suitable for the connector being tested. It is defined according to the interface shape, without locking hooks, tabs and material savers as indicated in picture 28.

Clamping areas are defined in section 6.2.

6.7 Dichtungstest

WICHTUNG!

Der gedichteter Buchsenstecker muss im Werk des Kabelbaumherstellers eine 100% ige Dichtheitsprüfung bestehen. Nur geschulte Techniker sollten die Tests durchführen

Stellen Sie vor Beginn des Tests Folgendes sicher:

- *Geeignete Buchsenkontakten mit entsprechenden Drahtdichtungen werden in den Buchsenstecker eingeführt.*
- *Geeignete Stecker werden in leere Steckerhohlräume eingeführt;*
- *Die vorderen Halter in der eingestellten Position befinden und der CPA (optional) in der voreingestellten Position bleibt.*

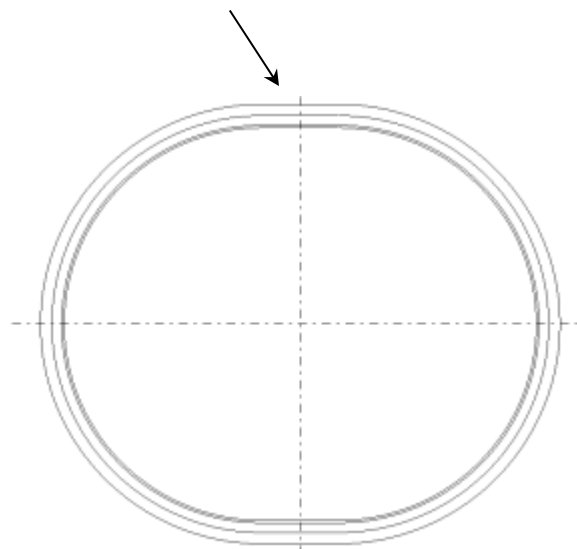
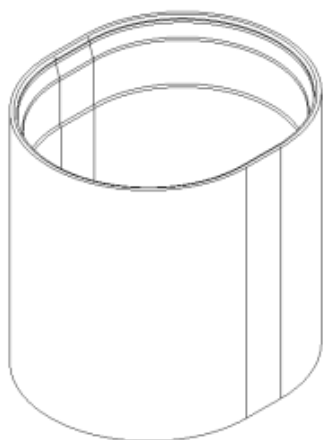
Vorsicht:

- *Der Dichtungstest muss nach dem elektrischen Test durchgeführt werden. Es ist wichtig zu überprüfen, ob die Buchsenkontakten vollständig in das Gehäuse eingesetzt sind, da sonst der Stecker undicht werden kann.*
- *Der Druckprüfer muss für den zu prüfenden Buchsenstecker geeignet sein. Sie wird gemäß der Schnittstellenform definiert, ohne Haken, Laschen und Materialsparer zu verriegeln, wie in Abbildung 28 gezeigt.*

Klemmungsbereiche sind in Abschnitt 6.2 definiert.

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No locking nose / Keine Verriegelungsnase



Picture 28 Sealing checker – interface shape

Abbildung 28 Der Druckprüfer - Schnittstellenform

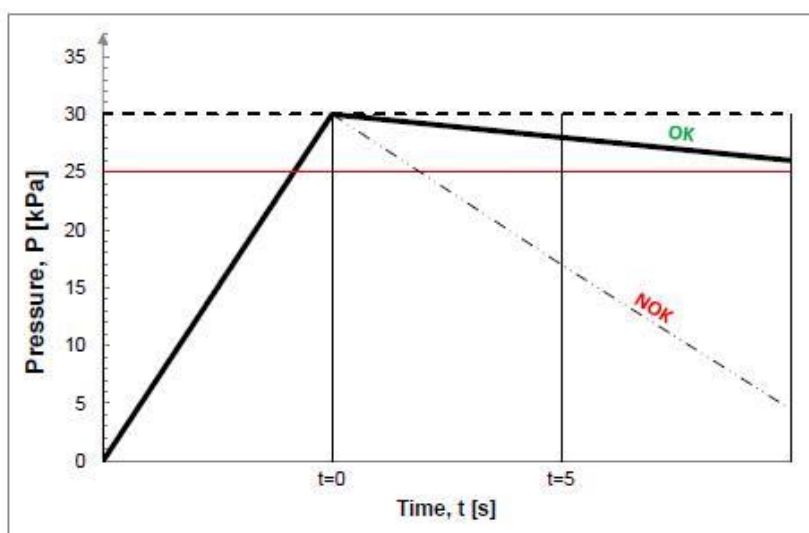
Note:

For code A and code B interface details, refer to interface drawing (7287-1403-30A).

Hinweis

Einzelheiten zur Schnittstelle von Code A und Code B finden Sie in der Schnittstellenzeichnung (7287-1403-30A).

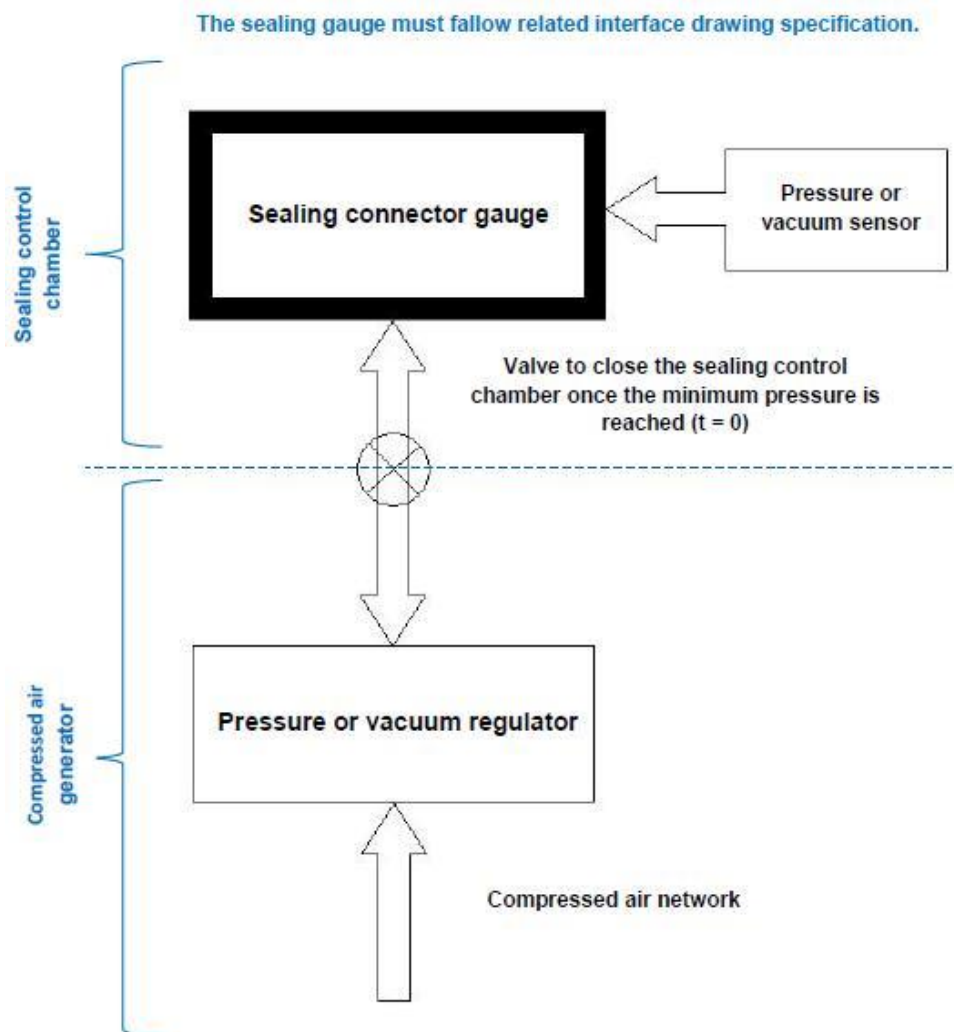
Test with positive or negative pressure Measurement into the sealing control chamber	
Starting value:	30 kPa
Limit value:	25 kPa
Duration time:	5 s
Test principle shown on next page	



Picture 29 Test acceptance criteria and sealing profile

Abbildung 29 Zulassungskriterien und Dichtungsprofil prüfen

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Note:

Control device must be capable following sealing profile as shown on page 30. It is recommended to control it periodically by means of calibrated leaks.

Hinweis

Das Steuergerät muss dem Dichtungsprofil gemäß Seite 30 folgen können. Es wird empfohlen, es regelmäßig durch kalibrierte Lecks zu kontrollieren.

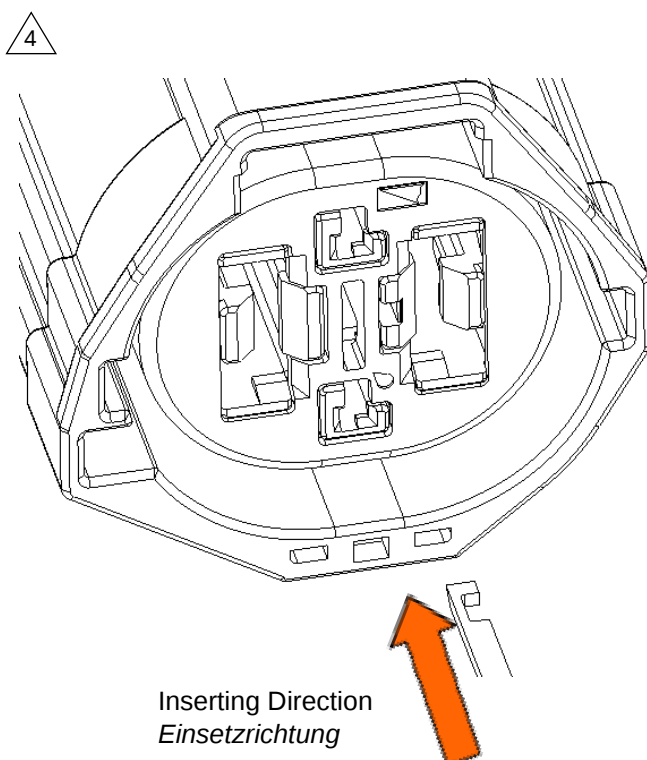
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7 Instructions for Removal

7.1 Front Holder Removal

Precautions:

- For Front Holder disengage only specified Removal Tool No. 90030 or Tool ENT-YAZ-30-0020-98 should be used (see chapter 8).
- To disengage Front Holder from Set to Pre-Set Position place the tool into the position as shown in the Picture 30 and then pull it.
- Be sure that Front Holder is pulled up into the Pre-Set Position, and not between the Set and Pre-Set Position, because then it is not possible to extract Terminals from the cavities.
- Do not pull Front Holder more than in Pre-Set Position, because then it will be removed from the housing.



Picture 30a

7 Hinweise zum Ausbau

7.1 Entrasten des Vordergehäuses

Vorsicht:

- Zum Entriegeln des Vordergehäuses ist nur das festgelegte Entriegelungswerkzeug Nr. 90030 oder ENT-YAZ-30-0020-98 zu benutzen (Kapitel 8).
- Zum Entriegeln des Vordergehäuses von der End- zur Vorraststellung positioniere man das Werkzeug an die in Abbildung 30 gezeigte Stelle und dann ziehe man daran.
- Man vergewissere sich, dass das Vordergehäuse bis in die Vorraststellung gezogen wird und nicht irgendwo dazwischen, da es sonst nicht möglich ist, die Steckkontakte aus der Kammer zu ziehen.
- Das Vordergehäuse darf man nicht weiter als bis zur Vorraststellung ziehen, da es sonst aus dem Gehäuse herausfällt.

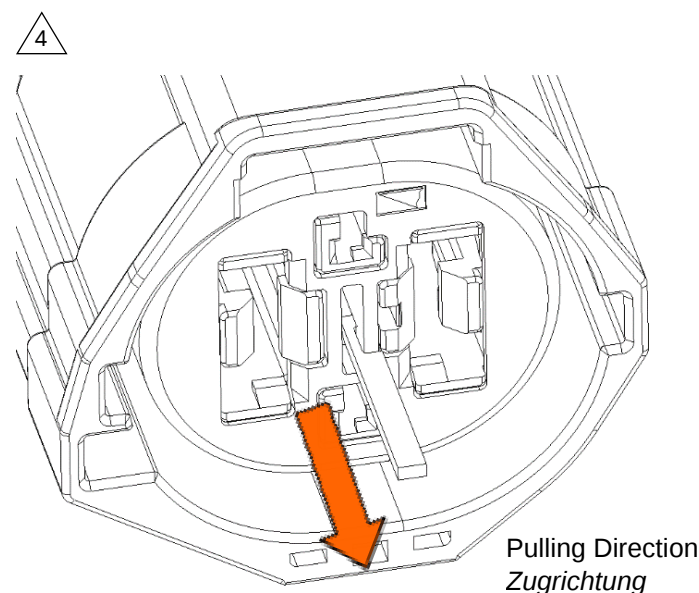
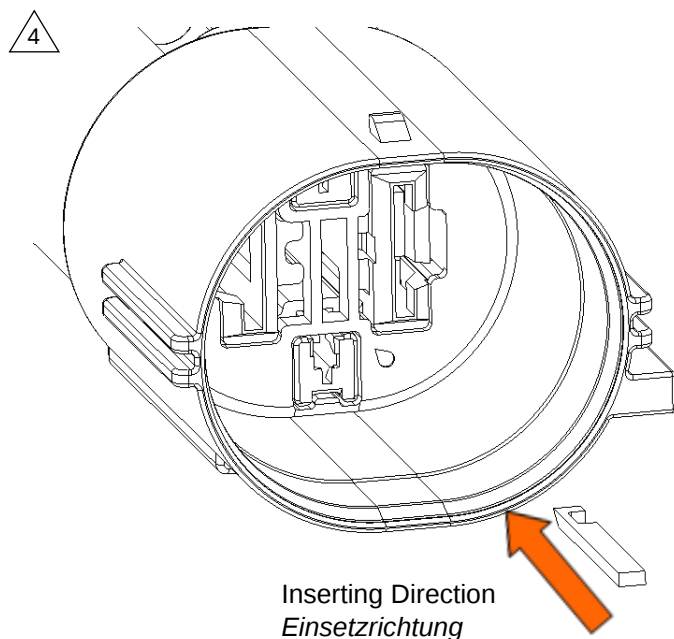


Abbildung 30a

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Picture 30b

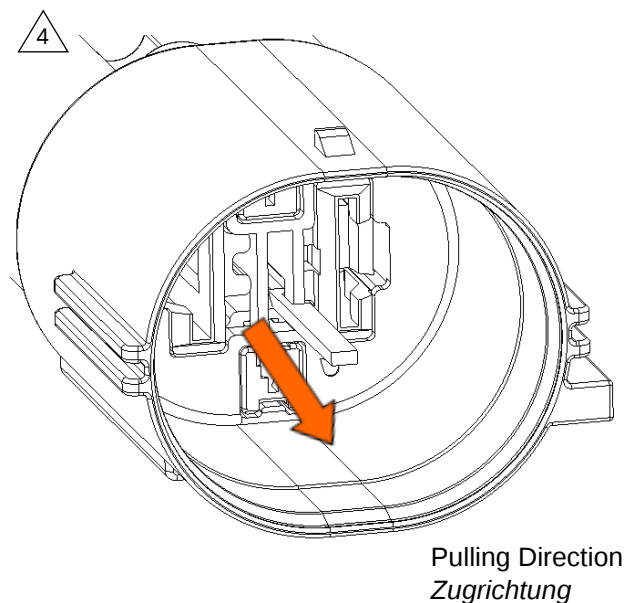


Abbildung 30b

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7.2 Terminal Extraction

Trained technicians should only perform the terminal extraction operation. Probing of the Terminal / Cavity by personnel not familiar with the removal process could result in damage of the Terminal and / or Connector.

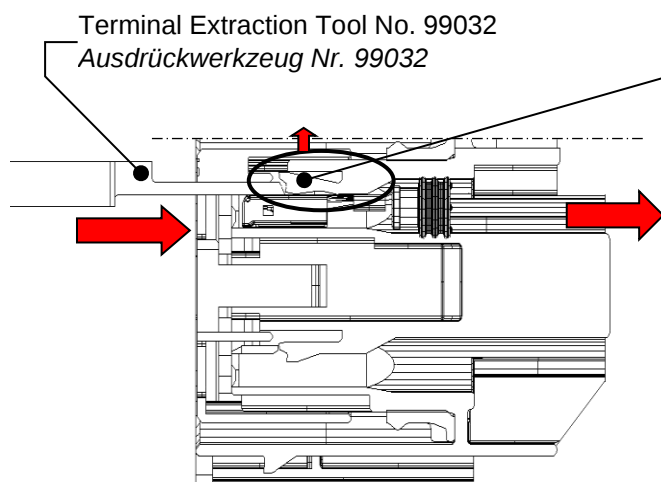
- Check if Front Holder is in Pre-Set Position.
- For extraction of 1,5mm terminals only original Extraction Tool No. 99032 should be used.
- For extraction of 9,5mm Male Terminals only original Extraction Tool No. ENT-YAZ-11-0042-98 or a screwdriver 1,5 to 3mm can be used.
- 2 • For extraction of 9,5mm Female Terminals only original Extraction Tool ZDD-06-0037 or ENT-YEL-12-0384-98 should be used.
- Place the tool as shown in the Pictures 31 and 32; push it until Cavity Lance is completely pressed down.
- Make sure that the tip of the Removal Tool is in the space between the Terminal and the Cavity Lance.
- Pull at the right wire until the Terminal is completely taken out of the cavity as shown in the Pictures 33 and 34
- If the Terminal cannot be extracted by pulling at the wire, it is possible that Front Holder is not in Pre-Set Position.
- If the Terminal cannot be removed smoothly, do not try to pull it out by force. Start the procedure again.
- After extraction of the Terminal, make sure that the Terminal is not damaged. If so, replace it with a new one.
- Also make sure that the Housing is not damaged. If so, replace the Housing with a new one.

7.2 Ausziehen der Steckkontakte

Nur erfahrene Fachkräfte sollten das Herausziehen von Kontakten durchführen. Das Bearbeiten von Kontakt bzw. Kammer von Personen, die nicht mit dem Vorgang der Demontage vertraut sind, kann zur Beschädigung von Kontakt und / oder Stecker führen.

- Man überprüfe Sie, ob das Vordergehäuse sich in der Vorraststellung befindet.
- Zum Ausziehen der 1,5mm Steckkontakte ist nur das Original Ausdrückwerkzeug Nr. 99032 zu verwenden.
- Zum Ausziehen der 9,5mm Flachsteckkontakte können das Original Ausdrückwerkzeug Nr. ENT-YAZ-11-0042-98 oder Schraubendreher der Größe 1,5 bis 3mm verwendet werden.
- 2 • Zum Ausziehen der 9,5mm Buchsenkontakte darf nur das Original Ausdrückwerkzeug ZDD-06--0037 oder ENT-YAZ-12-0384-98 benutzt werden.
- Man positioniere das Werkzeug wie in den Abbildungen 31 und 32 gezeigt; man drücke es solange, bis die Rastfeder in der Kammer vollständig heruntergedrückt ist.
- Man stelle sicher, dass die Spitze des Ausdrückwerkzeugs sich in dem Spalt zwischen Steckkontakt und Rastfeder in der Kammer befindet.
- Man ziehe am richtigen Draht, bis der Steckkontakt vollständig aus der Kammer gezogen ist, wie in Abbildung 33 und 34 gezeigt.
- Falls der Steckkontakt nicht durch Ziehen am Draht entfernt werden kann, ist es möglich, dass das Vordergehäuse sich nicht in der Vorraststellung befindet.
- Falls der Steckkontakt nicht sanft entfernt werden kann, versuche man ihn nicht mit Gewalt herauszuziehen.
- Man vergewissere sich nach dem Ausziehen des Steckkontakts, dass er nicht beschädigt ist. Ist dies der Fall, ersetzen man ihn durch einen Neuen.
- Man vergewissere sich auch, dass das Gehäuse nicht beschädigt ist. Ist dies der Fall, ersetze man es durch ein Neues.

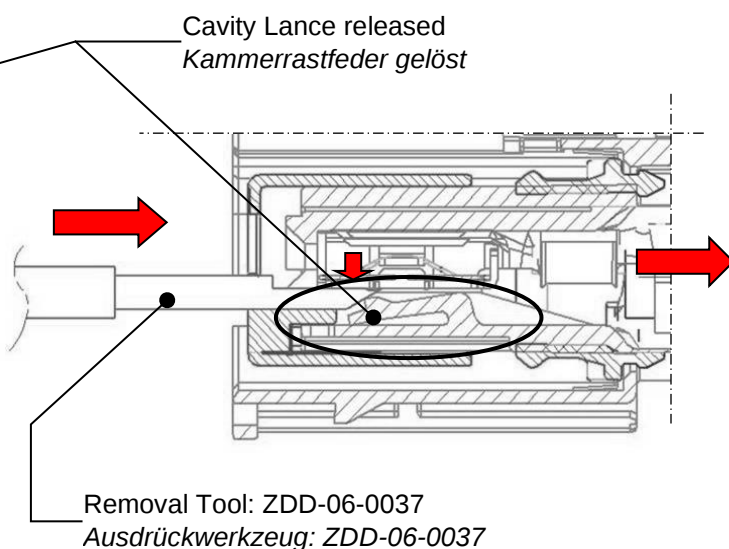
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Extraction of 1,5mm Female Terminal
Ausziehen des 1,5mm Buchsenkontakts

Picture 31

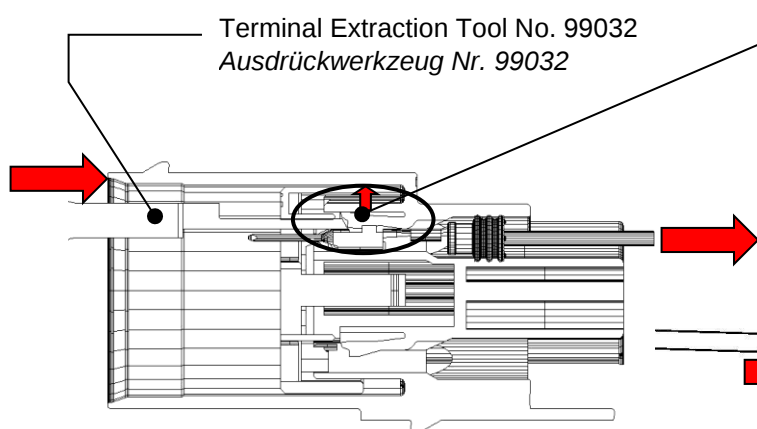
Abbildung 31



Extraction of 9,5mm Female Terminal
Ausziehen des 9,5mm Buchsenkontakts

Picture 32

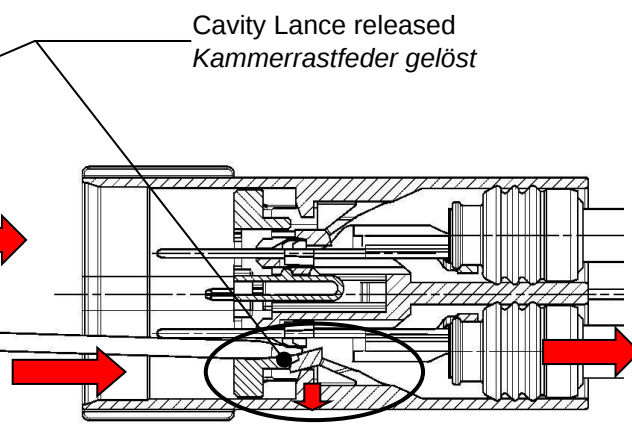
Abbildung 32



Extraction of 1,5mm Male Terminal
Ausziehen des 1,5mm Flachkontakts

Picture 33

Abbildung 33



Extraction of 9,5mm Male Terminal
Ausziehen des 9,5mm Flachkontakts

Picture 34

Abbildung 34

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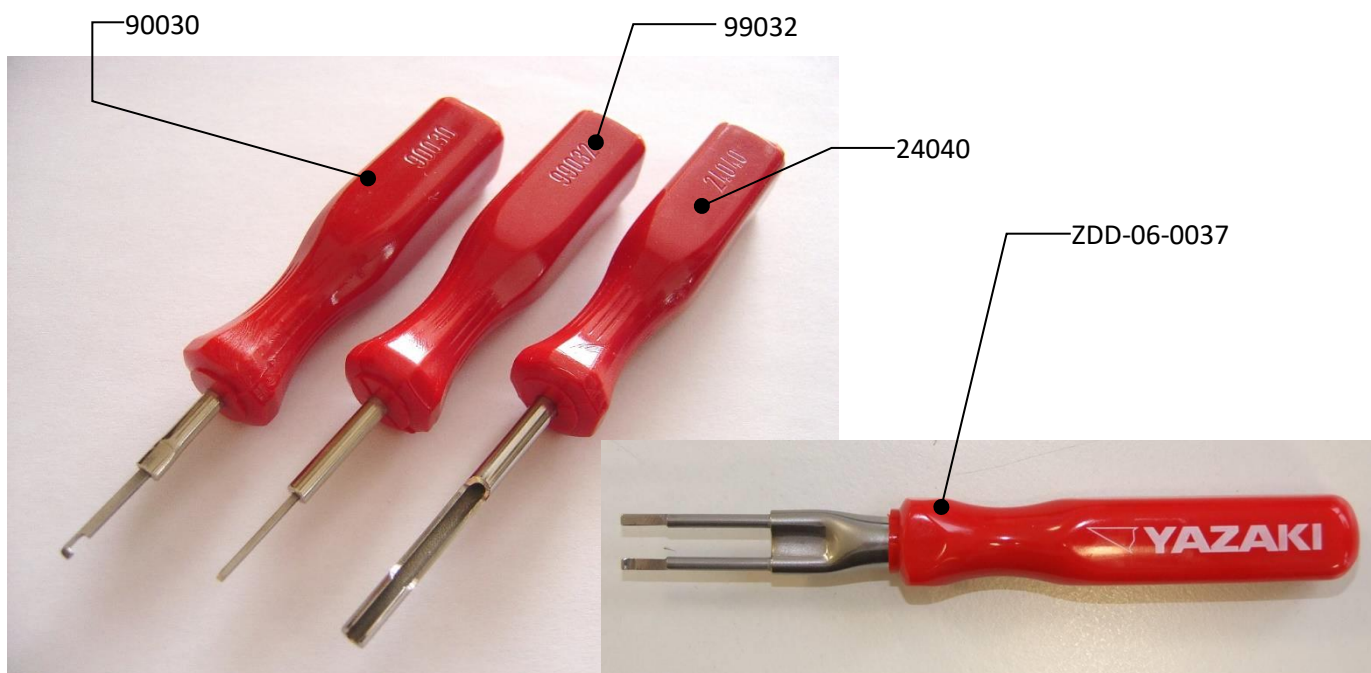
8 Removal, Insertion and Extraction Tools and

Part Numbers

- Front Holder Removal Tool
No. 90030
△² ENT-YAZ-30-0020-98
- 1,5mm Terminal Insertion Tool No. 24040
△² ENT-YAZ-08-0017-98
- 1,5mm Terminal Extraction Tool No. 99032
- 9,5mm Terminal Extraction Tool
ZDD-06-0037
△² ENT-YAZ-11-0042-98
ENT-YEL-12-0384-98

8 Entriegelungs-, Einsetz- und Ausdrückwerkzeuge und Teilenummern

- Entriegelungswerkzeug für Vordergehäuse
Nr. 90030
△² ENT-YAZ-30-0020-98
- Einsetzwerkzeug für 1,5mm Steckkontakt
Nr. 24040 ENT-YAZ-08-0017-98
- Ausdrückwerkzeug für 1,5mm Steckkontakt
Nr. 99032
- Ausdrückwerkzeug für 9,5mm Steckkontakt
ZDD-06-0037
△² ENT-YAZ-11-0042-98
ENT-YEL-12-0384-98

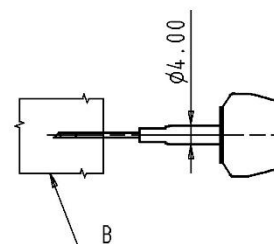
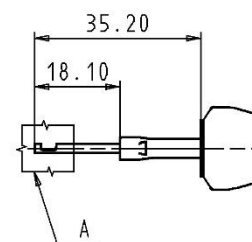
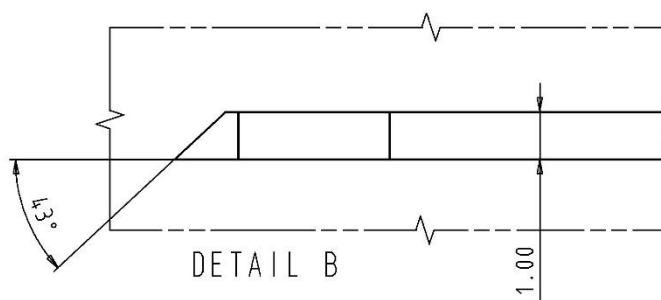
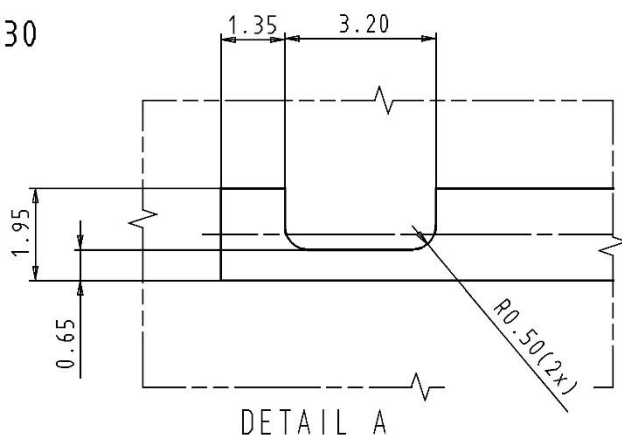


Picture 35

Abbildung 35

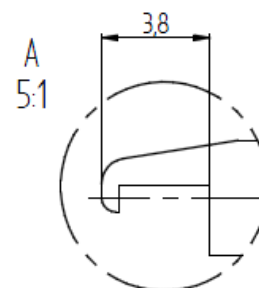
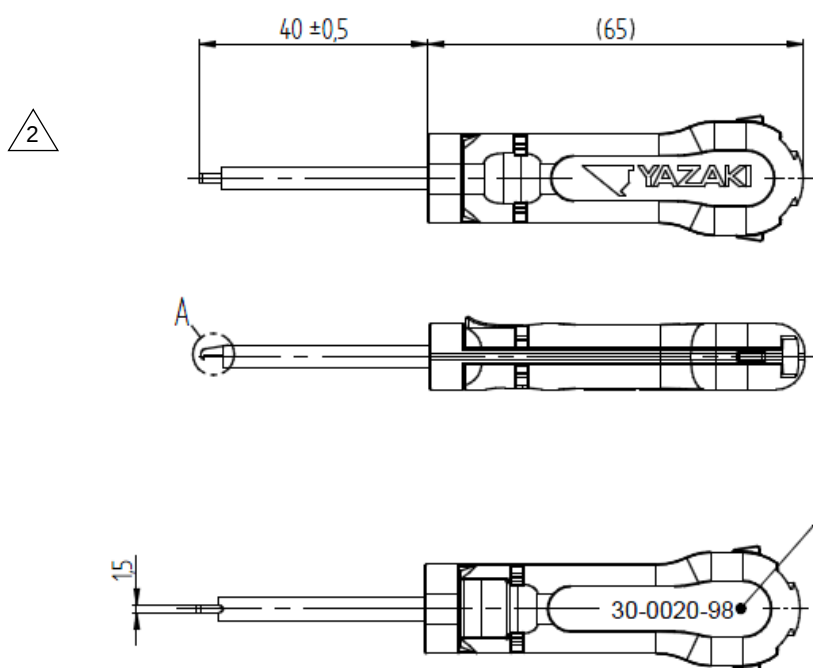
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90030



Sketch 1:
Front Holder Removal Tool No. 90030

Skizze 1:
Entriegelungswerkzeug für Vordergehäuse Nr. 90030

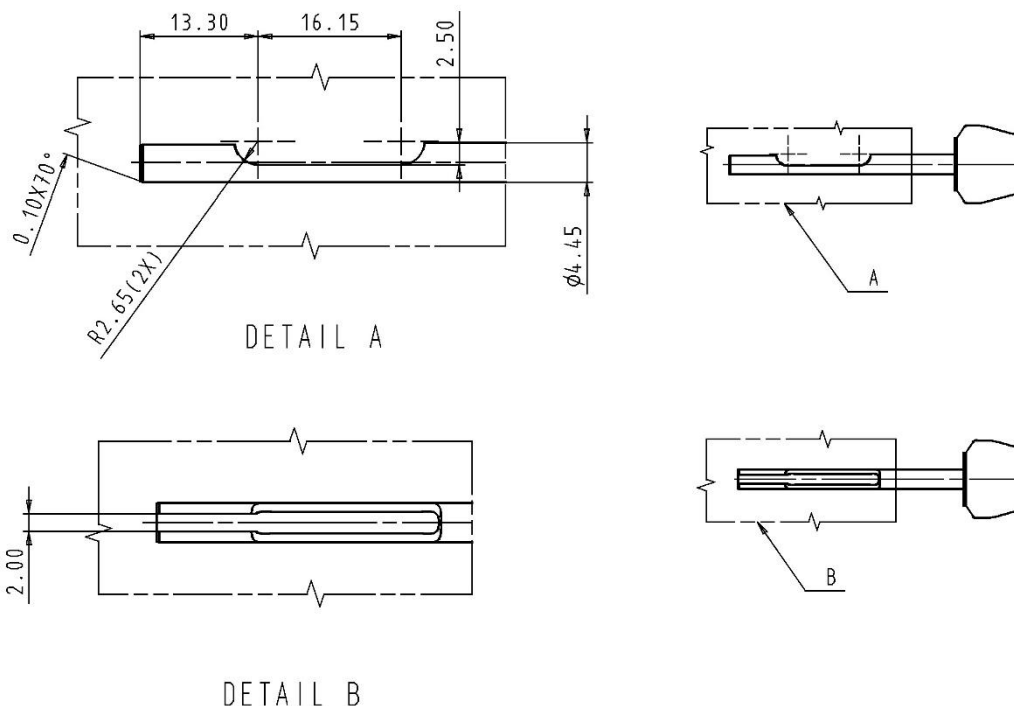


Sketch 2:
Front Holder Removal Tool No. ENT-YAZ-30-0020-98

Skizze 2:
Entriegelungswerkzeug für Vordergehäuse Nr.
ENT-YAZ-30-0020-98

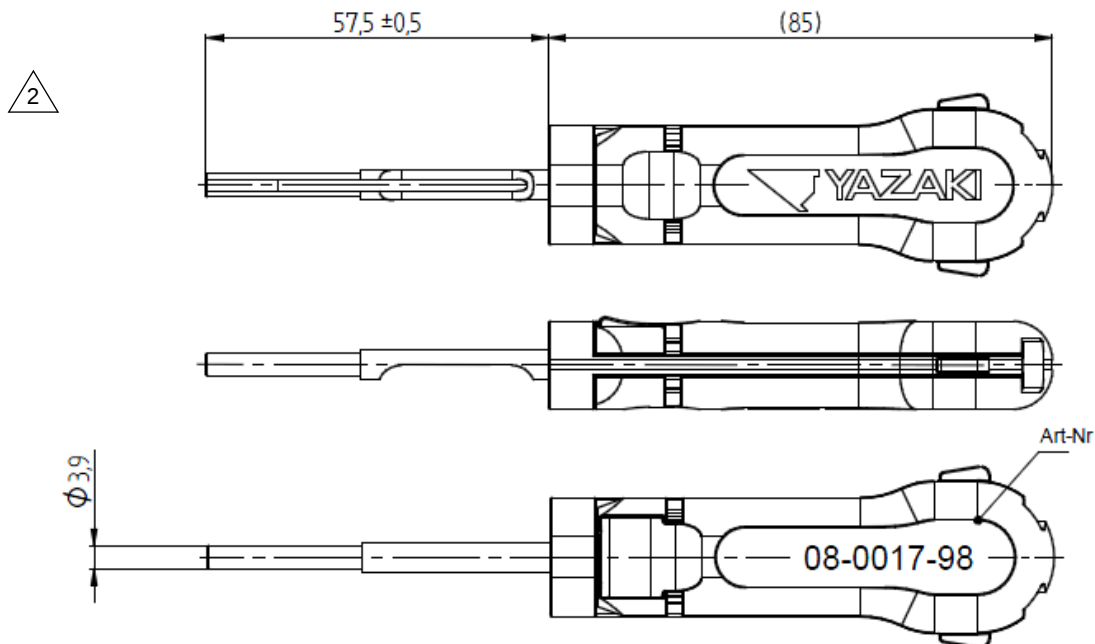
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24040



Sketch 3:
Insertion Tool for Terminal with SWS No. 24040

Skizze 3:
Einsetzwerkzeug für Steckkontakt mit
Einzelleiterdichtung Nr. 24040

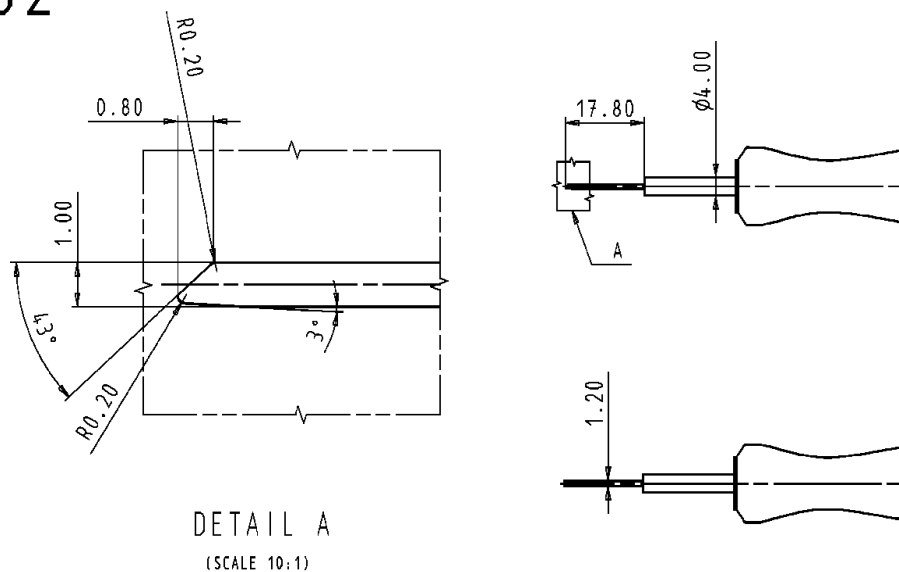


Sketch 4:
Front Holder Removal Tool No. ENT-YAZ-30-0020-98

Skizze 4:
Entriegelungswerkzeug für Vordergehäuse Nr.
ENT-YAZ-30-0020-98

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99032



Sketch 5:
Extraction Tool for 1,5mm Terminal No. 90032

Skizze 5:
Ausdrückwerkzeug für 1,5mm Steckkontakt Nr.
24040

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9 Instructions for Connector Mating and Unmating

9.1 Connector Mating

Following are the steps, which are necessary to mate the WP Hybrid Connector:

- Connector Systems have to be fully equipped with YPT and YES Terminals; Front Holders must be in Set Position.
- Move the Female Connector straight as the arrow **A** shows in Picture 36 until an audible CLICK-sound is heard: then the Lock is engaged.
- When male and female sides are fully mated and locked, push CPA from Pre-Set to Set Position. This action disables Locking Arm from lifting and therefore prevents disconnection of male and female side (see Picture 36).
- If male and female sides are not fully mated it is not possible to push CPA from Pre-Set to Set Position.
- Pull the Connectors lightly to confirm a secure Locking.



Precautions:

Do not wrench, when mating the Connector. Do not mate by pushing the Locking of the Housing. Female terminals in the connector and male tabs in the unit side shall have the same plating.

9 Stecken und trennen des Steckers

9.1 Gehäuse stecken

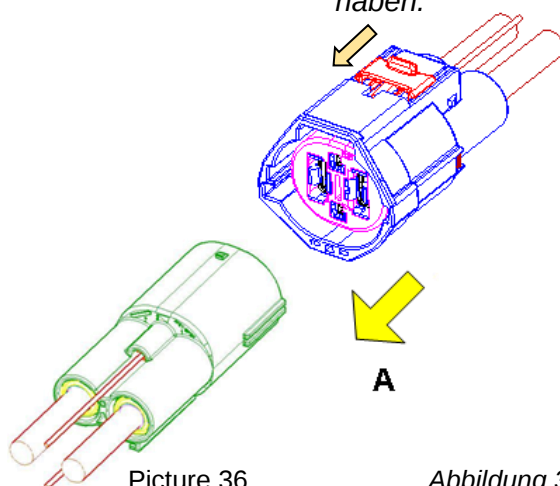
Die nachfolgenden Schritte beschreiben das Stecken des Gehäuse:

- Das Gehäuse muss vollständig mit YPT und YESC Kontakten bestückt sein, die zweite Kontaktsicherung muss sich im verrasteten Zustand befinden.
- Man steckt das Buchsengehäuse gerade, wie Pfeil A in Abbildung 36 zeigt, bis ein hörbares "Klick" Geräusch vernommen wird, damit sich die Verrastung betätigt.
- Wenn die Flachstecker- und Buchsenseiten vollständig verrastet sind, drücke man die CPA aus der Vorrast- in die Raststellung. Dieser Vorgang macht das Abheben des Rastarms unmöglich und verhindert somit die Steckertrennung von Flachstecker- und Buchsenseite (siehe Abbildung 36). Falls die Flachstecker- und Buchsenseiten nicht vollständig gesteckt sind, ist es nicht möglich die CPA aus der Vorrast- in die Raststellung zu schieben.
- Man zieht leicht an der Steckverbindung, um sicherzustellen, dass eine vollständige Verrastung besteht.



Vorsicht:

Das Gehäuse darf nicht verdreht gesteckt werden, beim Stecken nicht die Gehäuseverrastung drücken. Buchsenklemmen im Stecker und männliche Laschen auf der Geräteseite müssen die gleiche Beschichtung haben.



Picture 36

Abbildung 36

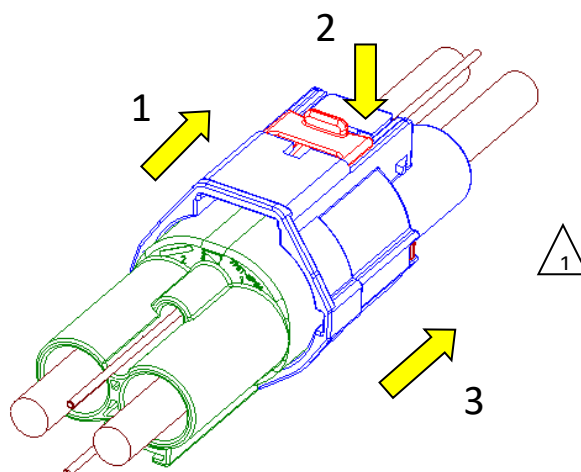
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9.2 Connector Unmating

In case that CPA is on the connector, assure that CPA is moved in arrow 1 direction from set to pre-set position like is shown on picture 37. Push the Housing Locking on Female Connector (Picture 37) into direction of the arrow 2 to disengage the Housing Lock. When holding the Housing Locking, pull the Female Connector into the direction of arrow 3 and unmate the Connectors.

9.2 Trennen des Steckers

Wird ein CPA verwendet, sollte sichergestellt werden, dass dieser in Pfeilrichtung 1 von der Raststellung in der Vorraststellung, wie in Abbildung 37 gezeigt, verschoben wird. Man drückt die Gehäuseverrastung am Buchsengehäuse (Abbildung 37) in Pfeilrichtung 2, um die Gehäuseverriegelung zu öffnen. Während man die Gehäuseverrastung gedrückt hält, zieht man den Buchsenstecker in Pfeilrichtung 3 und trennt die Steckverbindung.



Picture 37

Abbildung 37

Precautions:

Do not pull only by the wire.

Vorsicht:

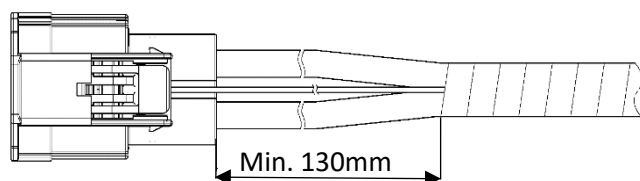
Man darf nicht nur an der Leitung ziehen.

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10 Wiring Harness Assembly

10.1 Precautions during Wire Harness Assembly

- To avoid the snagging of the Terminals take extra care about them.
- Apply the tape in such a manner that every individual wire is at an equal amount of tensile force (see Picture 38). Concentration of tensile force on a particular Wire may cause harmful effect such as inadvertent disengagement of Terminal.
- If bent Wire is necessary due to short distance to the connector, first bend the Wires in wanted direction and then apply the tape. The wrong application sequence may introduce stress, which could release the Contact unintended.



Picture 38

10.2 Notices for Packing of Wire Harnesses

Like many plastic part the Connector may be damaged if external force is applied to the Connector during transportation or storage. To prevent damages, take the following actions as well as the standard packaging and handling procedures:

- When packing wire harness in layers, use corrugate dividers for each layer, including layer dividers, vertical or horizontal dividers, internal supports and partitions to equally distribute weights of upper layer harness from the lower layer harnesses.

10 Montage von Kabelbäumen

10.1 Vorsichtsmassnahmen bei der Kabelbaummontage

- Man achte besonders darauf, dass sich die Kontakte nicht verhaken.
- Man verfare so mit dem Klebeband, dass jede einzelne Leitung gleichmässige mechanische Spannung hat (siehe Abbildung 38). Anhäufung von zu hoher Spannung auf einer einzelnen Leitung kann einen schädlichen Einfluss ausüben, wie zum Beispiel unbeabsichtigtes Herausziehen des Kontakts.
- Falls eine gebogene Leitung wegen kurzem Abstand zum Stecker erforderlich ist, biege man zuerst die Leitung in die gewünschte Richtung und dann umwickle man mit Klebeband. Umgekehrtes Vorgehen kann eine Beanspruchung erzeugen, die zum unbeabsichtigten Herauslösen des Kontaktes führt.

Acceptable
Zulässig

Abbildung 38

10.2 Hinweise zur Verpackung von Kabelbäumen

Wie bei den meisten Kunststoffteilen, kann auch der Stecker beschädigt werden, falls äußere Kräfte auf den Stecker bei Transport oder Lagerung einwirken. Um Beschädigungen zu vermeiden, beachte man sowohl die folgenden Maßnahmen als auch die normalen Verpackungs- und Verarbeitungsverfahren:

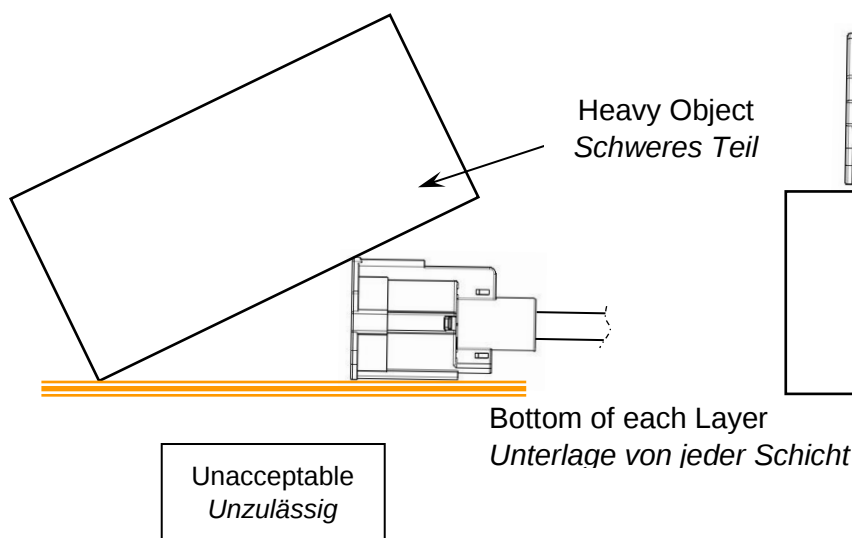
- Falls Kabelbäume schichtweise verpackt werden, benutze man Wellpappe zur Abtrennung jeder Schicht, einschließlich Trennlagen, aufrechte oder waagrechte Abtrennungen, Stützen innerhalb und Abtrennungen, um die Last von obenliegenden Kabelbäumen gegenüber

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- Any heavy and / or bulky objects shall be

placed on the bottom of the carton or divider to prevent weight of such item from being applied to the Connector (see Picture 39).

- The Connector shall be positioned outside or in the centre of the harness bundle, to prevent the weight of the harness from being applied to the Connector.
- Wire harness bundle size must fit the carton to prevent shifting of wire harness during transportation or storage.
- If the Connector Housing is "taped back" on the wire harness bundle, assure that the Housing Lock or other flexible member of the Connector are positioned away from the wire harness bundle.



Picture 39

den darunterliegenden gleichmäßig zu verteilen.

- Schwere oder großvolumige Teile sollte man

unten in den Karton oder in die Abtrennung legen, um die Last von solchen Artikeln nicht auf den Steckverbinder einwirken zu lassen (siehe Abbildung 39).

- Der Stecker sollte außerhalb oder in der Mitte des Kabelbündels liegen, damit das Gewicht des Kabelbaums nicht auf den Stecker drückt.
- Die Abmessungen des Kabelbündels müssen in den Karton passen, um das Verrutschen des Kabelbaums während Transport oder Lagerung zu verhindern.
- Falls das Steckergehäuse an den Kabelstrang zurückgebunden ist, achte man darauf, dass die Gehäuseverriegelung oder andere biegsame Teile des Steckers von dem Kabelbaum wegzeihen.

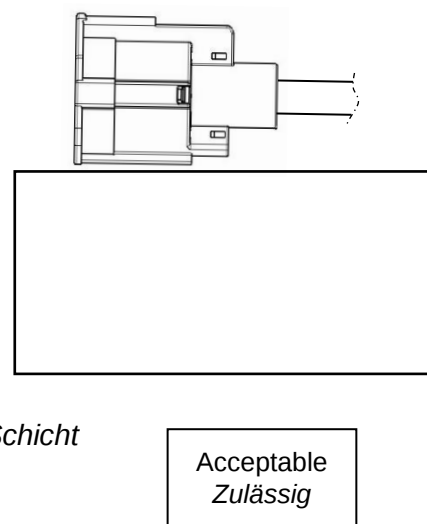


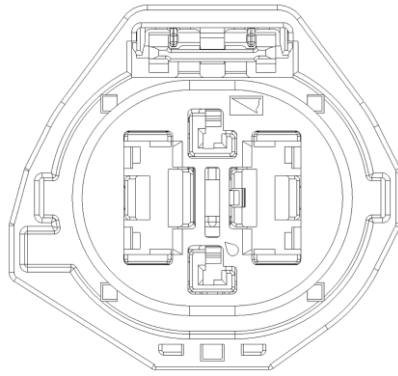
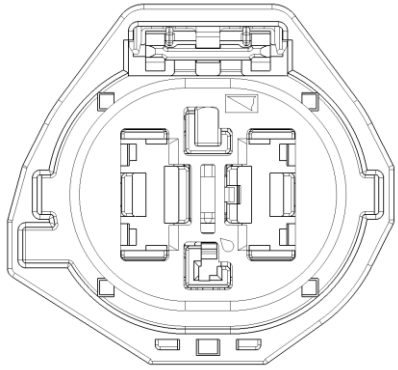
Abbildung 39

- Extra care shall be taken to prevent wire harnesses tangling which may damage the Connector when wire harness is removed from the carton at the vehicle assembly.
- After transportation or storage, the Connector shall be checked for damages.

- Besonders aufmerksam muss man darauf achten, dass sich die Kabelstränge nicht miteinander verhaken, da dies zu Beschädigungen führt, wenn der Kabelbaum bei der Fahrzeugmontage aus der Schachtel geholt wird.
- Nach Transport oder Lagerung ist der Stecker auf Beschädigungen zu untersuchen.

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Subassembly part numbers with related parts:

YAZAKI Subassembly part number/ name	YAZAKI part numbers / part names [CODES]	Shape	Material [color]
7287-1403-30 7289-5783-30 7289-7643-30 YPT HYBRID CONNECTOR 4P (1.5x2+9.5x2) (F) SUBASSEMBLY CODE A COLOR: BLACK	7187-1403-30 YPT HYBRID WP CONNECTOR 4P (1.5x2+9.5x2) (F) HOUSING CODE A		PBT-GF15 [Black]
	7172-0173 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE A		PBT-GF15 [Natural]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50 YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]
7287-1404-10 7289-5784-10 7289-7641-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (F) SUBASSEMBLY CODE A COLOR: DARK GRAY	7187-1404-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (F) HOUSING CODE A		PBT-GF15 [Dark gray]
	7172-0173 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE A		PBT-GF15 [Natural]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]

Title

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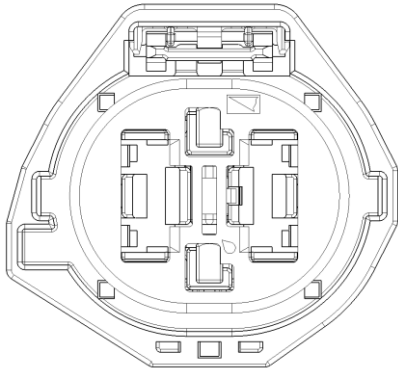
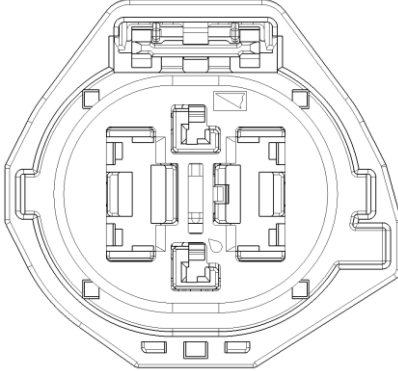
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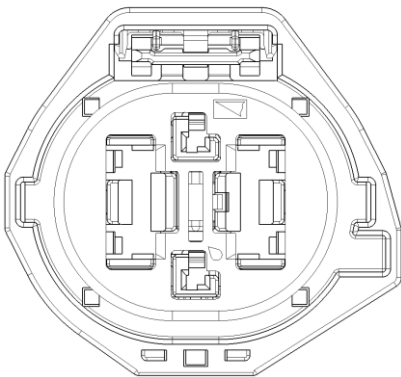
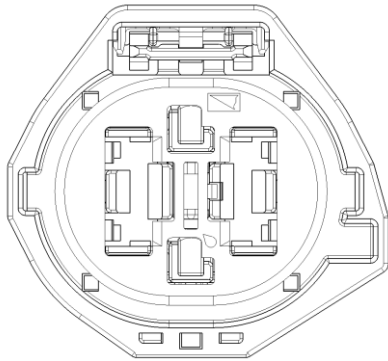
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3

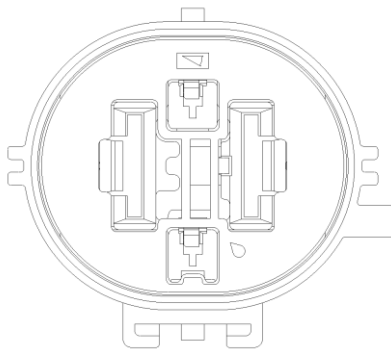
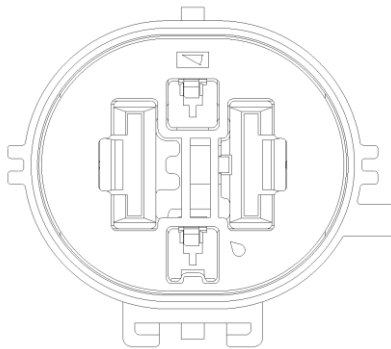
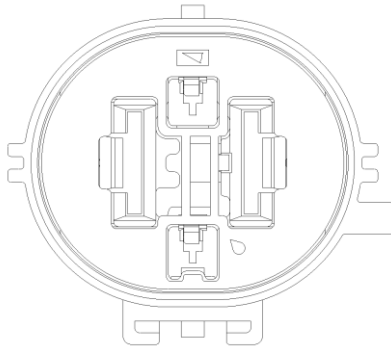
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7287-1405-80 7289-5785-80 7289-7639-80 YPT HYBRID CONNECTOR 2P (9.5x2) (F) SUBASSEMBLY CODE A COLOR: DARK BROWN	7187-1403-30 YPT HYBRID CONNECTOR 2P (9.5x2) (F) HOUSING CODE A		PBT-GF15 [Dark brown]
	7172-0173 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE A		PBT-GF15 [Natural]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50 YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]
7287-1406-30 7289-5786-30 7289-7644-30 YPT HYBRID CONNECTOR 4P (1.5x2+9.5x2) (F) SUBASSEMBLY CODE B COLOR: BLACK	7187-1406-30 YPT HYBRID CONNECTOR 4P (1.5x2+9.5x2) (F) HOUSING CODE A		PBT-GF15 [Black]
	7172-0173-60 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE B		PBT-GF15 [Green]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50 YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]

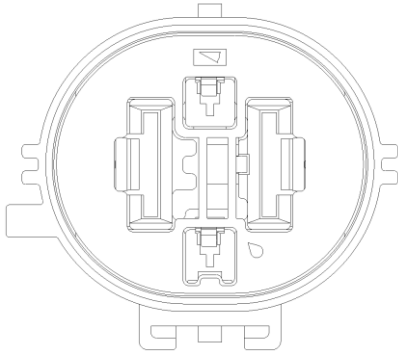
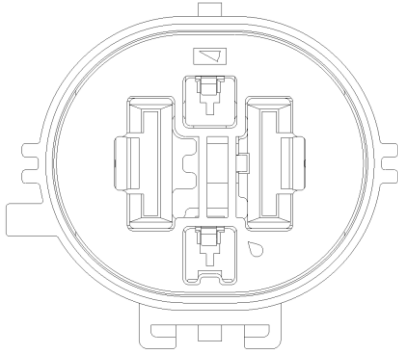
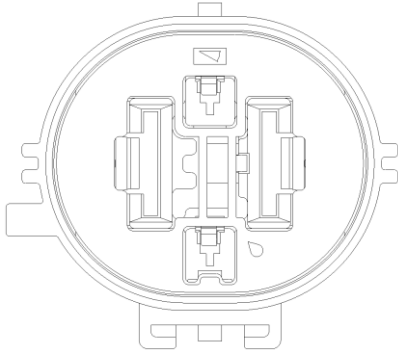
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7287-1407-10 7289-5787-10 7289-7642-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (F) SUBASSEMBLY CODE B COLOR: DARK GRAY	7187-1407-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (F) HOUSING		PBT-GF15 [Dark gray]
	7172-0173-60 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE B		PBT-GF15 [Green]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50 YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]
7287-1408-80 7289-5788-80 7289-7640-80 YPT HYBRID CONNECTOR 2P (9.5x2) (F) SUBASSEMBLY CODE B COLOR: DARK BROWN	7187-1408-80 YPT HYBRID CONNECTOR 2P (9.5x2) (F) HOUSING		PBT-GF15 [Dark brown]
	7172-0173-60 YPT HYBRID WP CONNECTOR (F) FRONT HOLDER CODE B		PBT-GF15 [Green]
	7137-2692-50 YPT HYBRID WP CONNECTOR (F) INTERFACE SEAL		HSC SILICON RUBBER [Red]
	7172-1370-50 YPT HYBRID WP CONNECTOR 4P CPA 7172-0531-50 2P 1.5+2P 9.5 WP HYBRID CONNECTOR (F) CPA		PBT-GF15 [Red]

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YAZAKI Subassembly part number/ name	YAZAKI part numbers / part names [CODES]	Shape	Material [color]
7286-1397-30 YPT HYBRID WP CONNECTOR 4P (1.5x2+9.5x2) (M) SUBASSEMBLY CODE A COLOR: BLACK	7186-1397-30 YPT HYBRID WP CONNECTOR 4P (1.5x2+9.5x2) (M) HOUSING CODE A		PBT-GF15 [Black]
	7172-0172 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE A		PBT-GF15 [Natural]
7286-1398-10 YPT HYBRID WP CONNECTOR 3P (1.5x1+9.5x2) (M) SUBASSEMBLY CODE A COLOR: DARK GRAY	7186-1398-10 YPT HYBRID WP CONNECTOR 3P (1.5x1+9.5x2) (M) HOUSING CODE A		PBT-GF15 [Dark gray]
	7172-0172 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE A		PBT-GF15 [Natural]
7286-1399-80 YPT HYBRID WP CONNECTOR 2P (9.5x2) (M) SUBASSEMBLY CODE A COLOR: DARK BROWN	7186-1399-30 YPT HYBRID WP CONNECTOR 2P (9.5x2) (M) HOUSING CODE A		PBT-GF15 [Dark brown]
	7172-0172 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE A		PBT-GF15 [Natural]

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7286-1400-30 YPT HYBRID WP CONNECTOR 4P (1.5x2+9.5x2) (M) SUBASSEMBLY CODE B COLOR: BLACK	7186-1400-30 YPT HYBRID WP CONNECTOR 4P (1.5x2+9.5x2) (M) HOUSING CODE A		PBT-GF15 [Black]
	7172-0172-60 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE B		PBT-GF15 [Green]
7286-1401-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (M) SUBASSEMBLY CODE B COLOR: DARK GRAY	7186-1401-10 YPT HYBRID CONNECTOR 3P (1.5x1+9.5x2) (M) HOUSING		PBT-GF15 [Dark gray]
	7172-0172-60 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE B		PBT-GF15 [Green]
7286-1402-80 YPT HYBRID WP CONNECTOR 2P (9.5x2) (M) SUBASSEMBLY CODE B COLOR: DARK BROWN	7186-1402-80 YPT HYBRID WP CONNECTOR 2P (9.5x2) (M) HOUSING		PBT-GF15 [Dark brown]
	7172-0172-60 YPT HYBRID WP CONNECTOR (M) FRONT HOLDER CODE B		PBT-GF15 [Green]

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Revision Level	Date	Change Description	Revised By
0	02.11.2007.	New	B.Fretze
1	19.12.2016.	New part numbers and CPA information added, mating/un-mating with CPA added	D.Mihalinec
2	01.10.2020.	Terminals and SWS new part numbers updated, insertion/removal/extraction tools information added, SWS position limitation defined, Revision history added, 'Electrical control of terminals' chapter added	JM.Radic
3	18.01.2021.	Storage information updated	M.Zokalj
4	16.05.2023.	5.1 and 7.1 chapter updated	M.Zokalj

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