APTIV

ASSEMBLY MANUAL

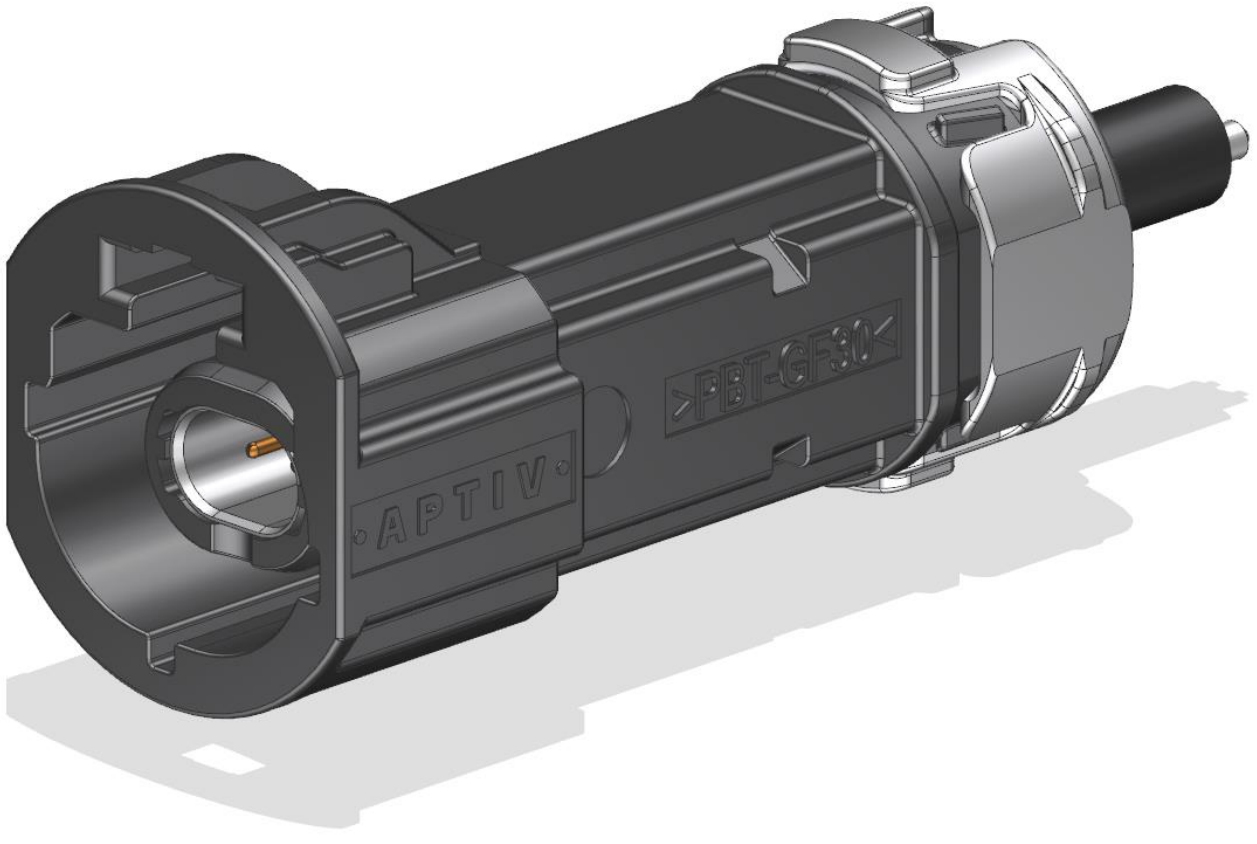
HARNESS ASSEMBLY

35853141-CUS72-S01 Rev01

1 PORT H-MTD Male Terminal System (Sealed)

September 2024

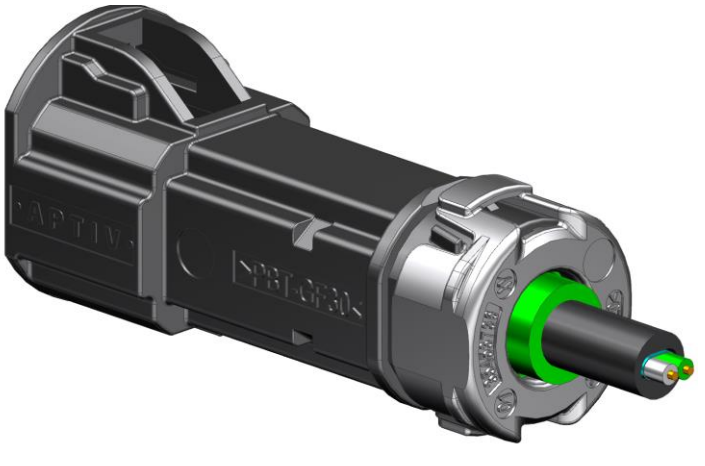
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STC Shanghai, China
CEC Chennai, India

TABLE OF CONTENTS





COMPONENT INFORMATION 3

HARNESS ASSEMBLY SECTION

ASSEMBLY OF THE MALE HARNESS ASSEMBLY 4
List of Components & Exploded View 5
Step 1 – Mount Cap over Terminals 6
Step 2 – Insert Cable Seal over Terminals 6
Step 3 – Insert PLR over Terminal 7
Step 4 – Identify Cavities & Align Male H-MTD Terminal 8
Step 5 – Insert H-MTD Male Terminal 9
Harness Assembly – Completed 11

REPAIR / REPLACEMENT SECTION

MALE CONNECTOR SUBCOMPONENTS:
Component Repair / Reuse Capabilities 13
MALE H-MTD Terminal Replacement – Step 1 (Locate area for Tool) 14
Step 2 (Remove Cap) 14
Step 3 (Remove Cable Seal) 15
Step 4 (Remove PLR) 16
Step 5 (Remove Terminal) 17
Step 6 (Insert Terminal) 20

Recommended Repair Tools 21

REVISIONS 22

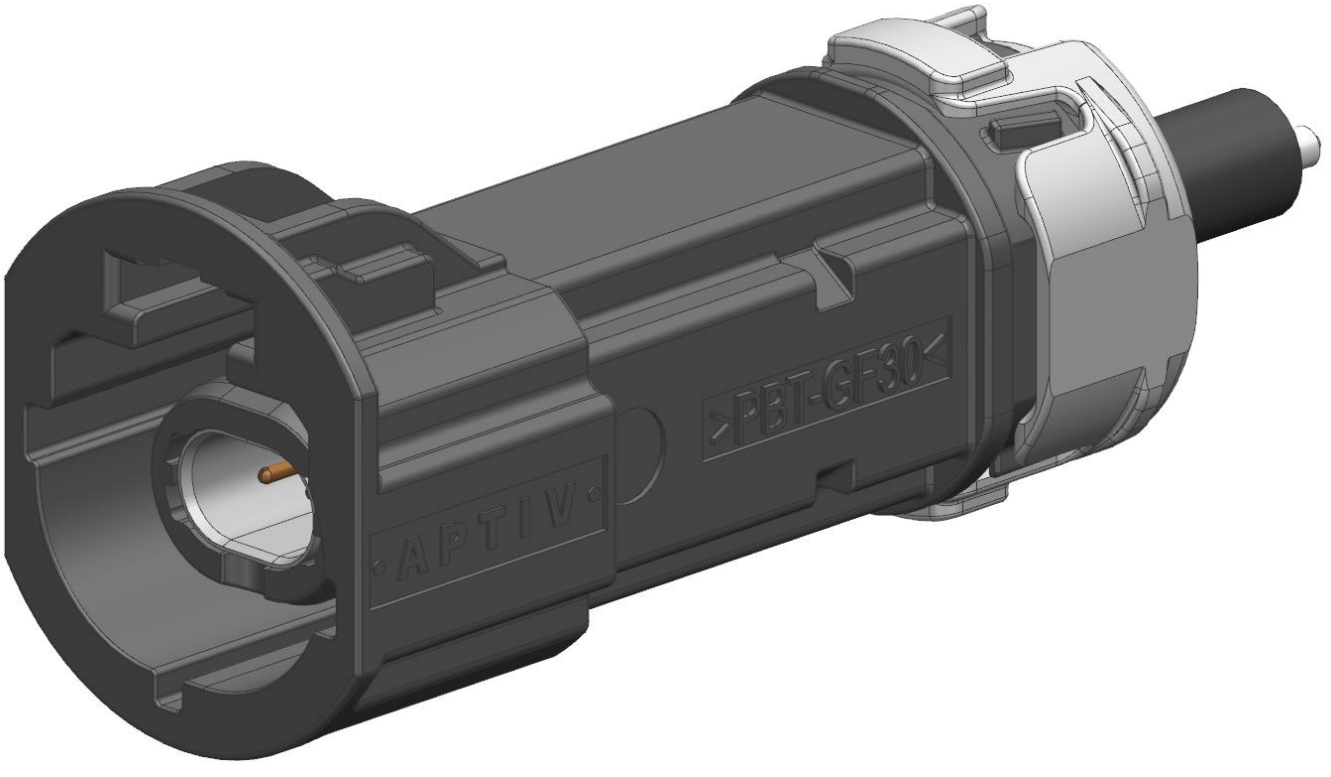
COMPONENT INFORMATION

COMPONENT	KEY OPTION	APTIV PN	AMOUNT
1-PORT H-MTD HOUSING	CODE A	35610604	**1**
	CODE B	35610605	1
	CODE C	35610606	1
	CODE D	35610607	1
	CODE E	35610608	1
	CODE F	35610610	1
	CODE Z	35610611	1
PLR	-	35453735	1
SEAL (For Wire OD Ø4mm)	-	15324996	1
LOCK RETAINER	-	35453736	1
H-MTD MALE TERMINAL(For Wire OD Ø4mm)	-	35719761/35719839	1

ASSEMBLY OF THE
MALE HARNESS
ASSEMBLY

HARNESS
ASSEMBLY

1 PORT H-MTD Sealed Connector

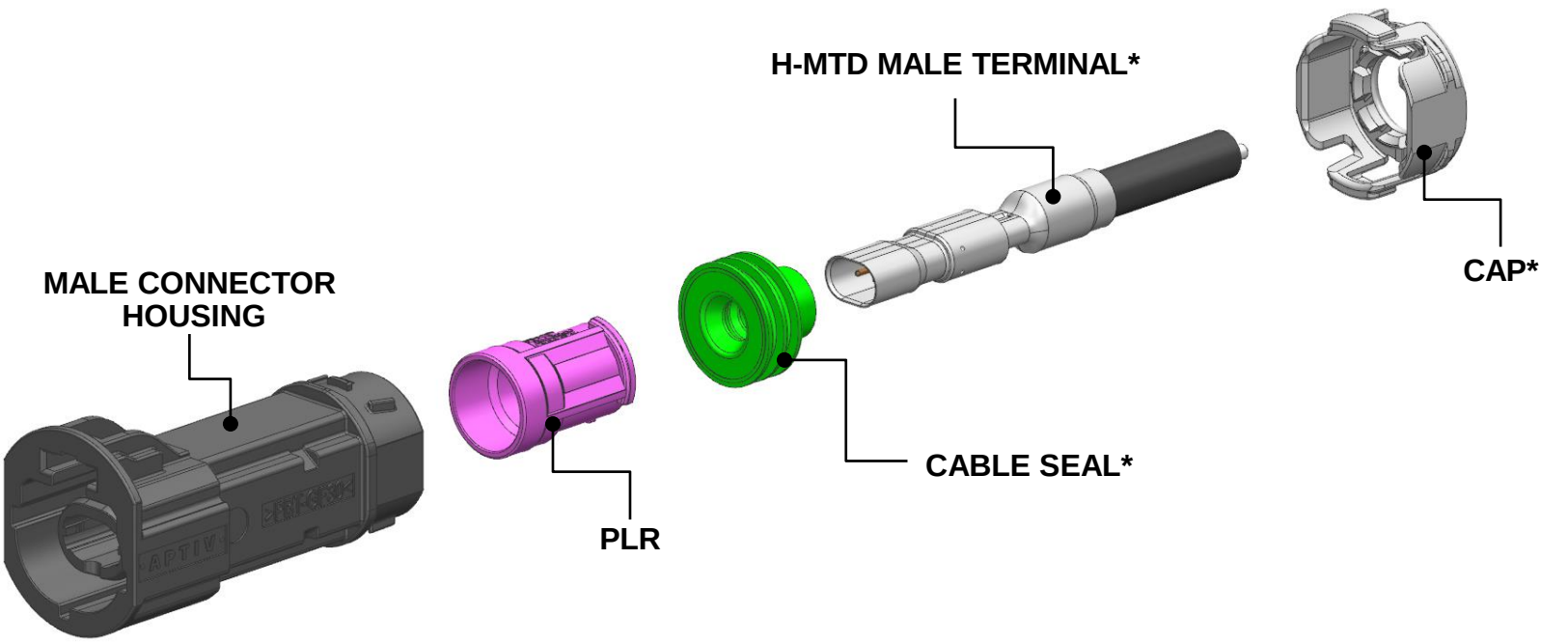


ASSEMBLY

LIST OF COMPONENTS & EXPLODED VIEW

QUANTITY	COMPONENTS
1	MALE CONNECTOR HOUSING*
1	PLR*
1	CABLE SEAL*
1	H-MTD MALE TERMINAL*
1	CAP*

ADDITIONAL INFORMATION AND REFERENCE TO ANOTHER DRAWINGS, DOCUMENTS, ETC. FOR EXAMPLE: REFER TO LATEST DRAWINGS FOR PART NUMBERS AND DETAILS

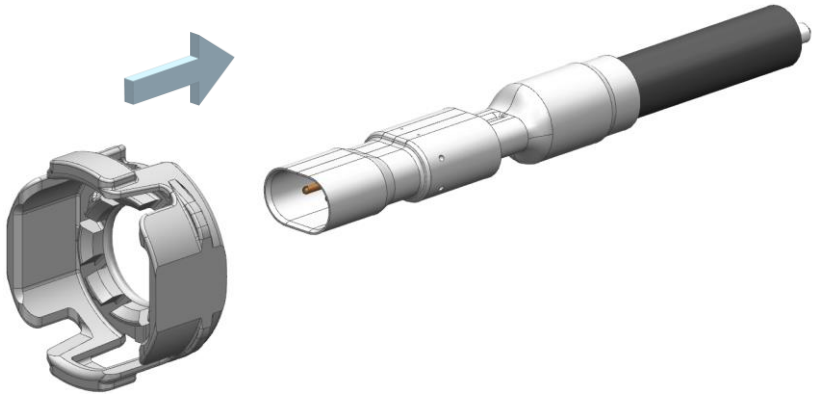


* THE PRODUCT AND ITS SINGLE COMPONENTS MUST NOT BE DAMAGED DURING THE ASSEMBLY PROCESS. CHEMICAL OR MECHANICAL DAMAGE IS NOT ALLOWED. THE PRODUCT SHALL NOT BE EXPOSED TO ENVIRONMENTAL POLLUTION DURING STORAGE OR ASSEMBLY. THE COMPONENTS SHOULD BE USED ON A FIFO (FIRST IN FIRST OUT) BASIS. STORAGE ALLOWED ONLY IN ORIGINAL UNOPENED SHIPPING CONTAINERS. SHELF LIFE OF 1 YEAR MAXIMUM FROM DATE OF ARRIVAL.
PERMISSIBLE STORAGE TEMPERATURE: MIN. 10°C, MAX. 45°C & <75% RH.

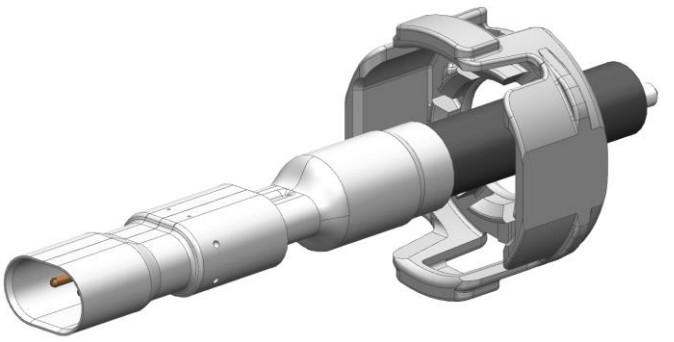
Pictures used in this Assembly Manual and original parts may differ in some details. These differences have no influence on the assembly process.

STEP 1 – MOUNT CAP OVER TERMINAL

1 **IDENTIFY THE CORRECT ORIENTATION OF THE CAP AND ALIGN IT WITH THE TERMINAL**

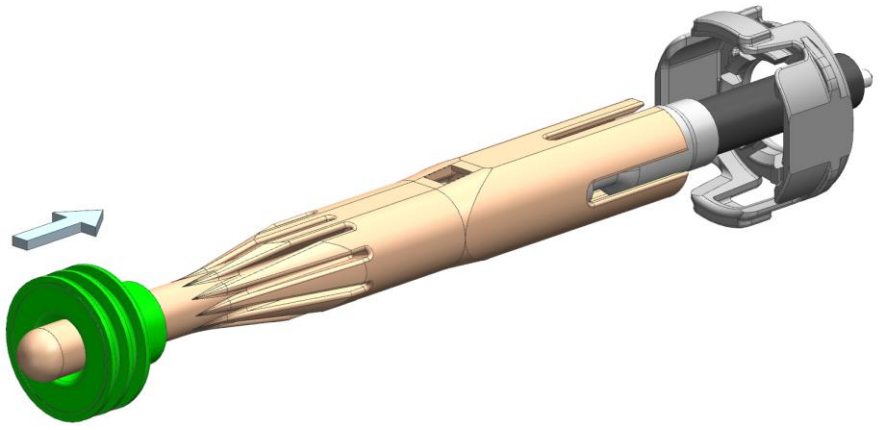


2 **PUSH THE CAP OVER THE TERMINAL**



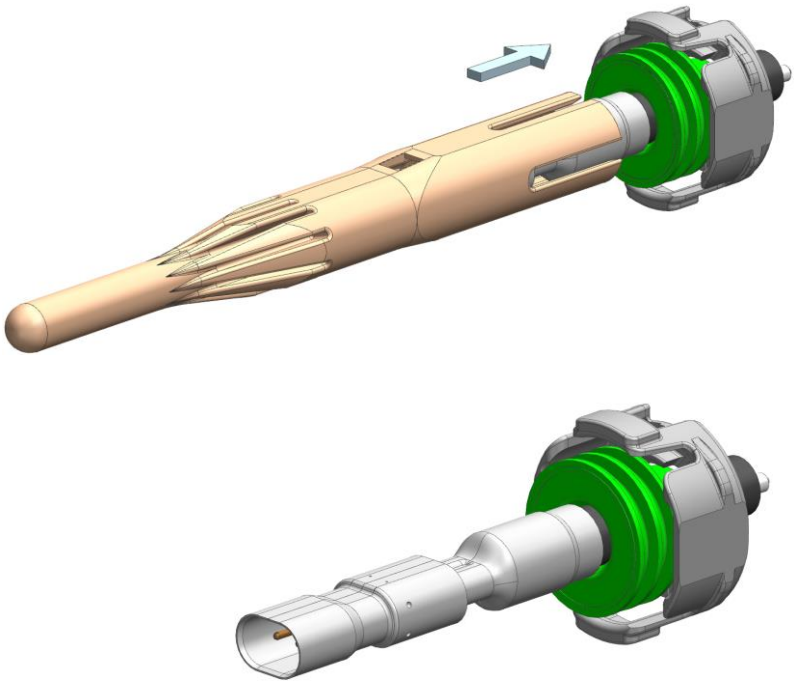
STEP 2 – INSERT CABLE SEAL OVER TERMINAL

1 **IDENTIFY THE CORRECT ORIENTATION OF THE CABLE SEAL AND ALIGN IT WITH THE TERMINAL**



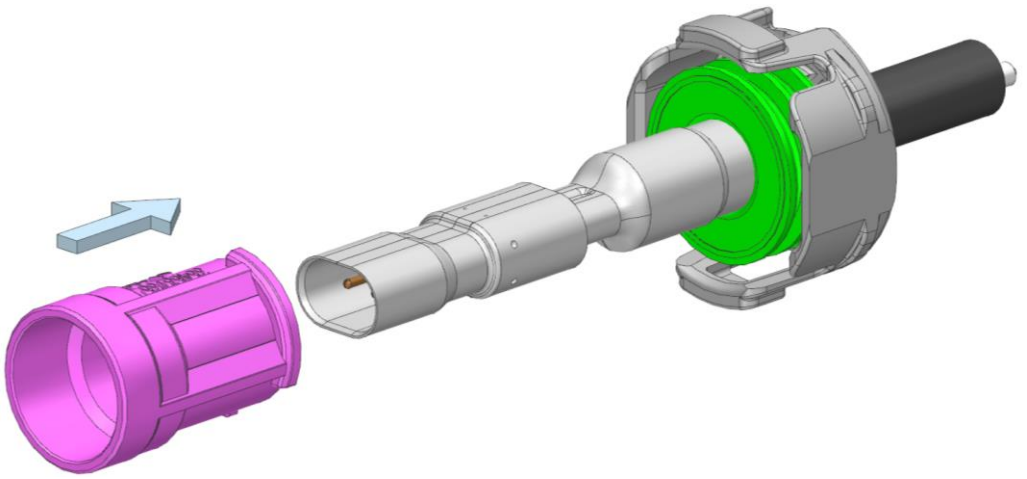
TERMINAL COVERED BY SEAL INSERTION TOOL

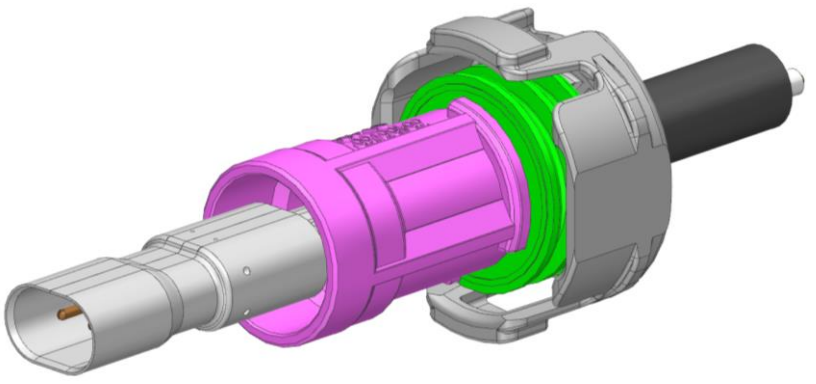
2 **PUSH THE SEAL OVER THE TERMINAL WITH THE ASSISTANCE OF SEAL INSERTION TOOL**



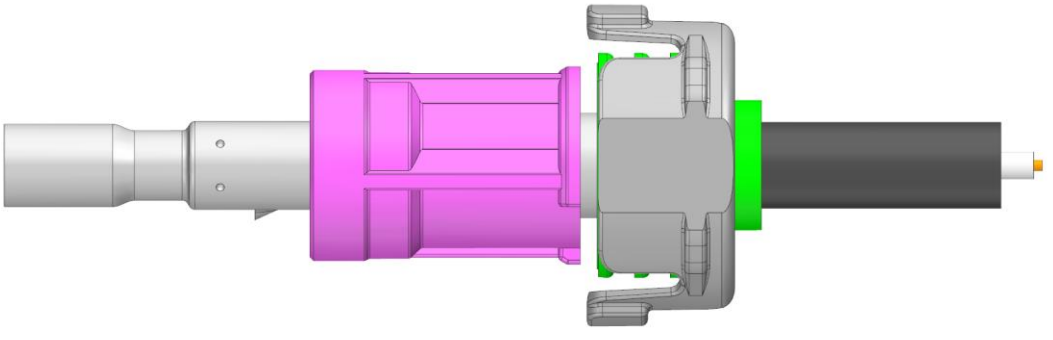
STEP 3 – INSERT PLR OVER TERMINAL

1 **IDENTIFY THE CORRECT ORIENTATION OF THE PLR AND ALIGN IT WITH THE TERMINAL**



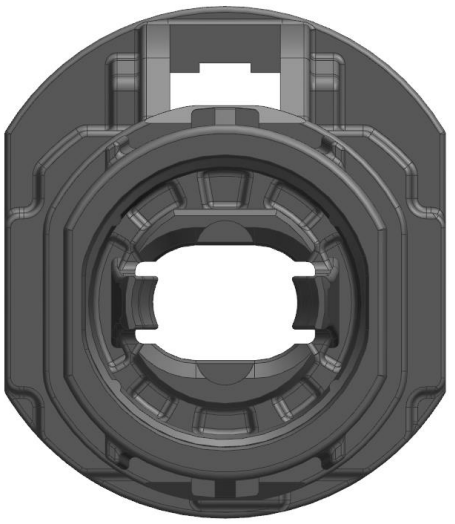


PUSH THE PLR STRAIGHT OVER THE TERMINAL



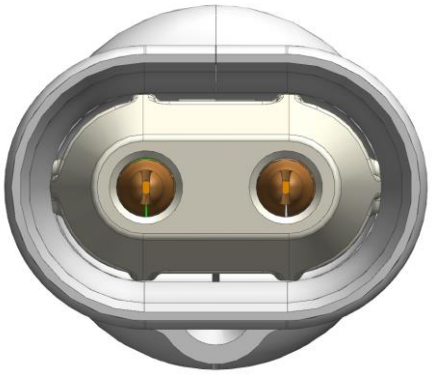
STEP 4 – IDENTIFY CAVITIES & ALIGN MALE H-MTD TERMINAL

INSERT MALE TERMINAL INTO RECEPTACLE HOUSING ACCORDING TO INSERTION PLAN



BACK VIEW

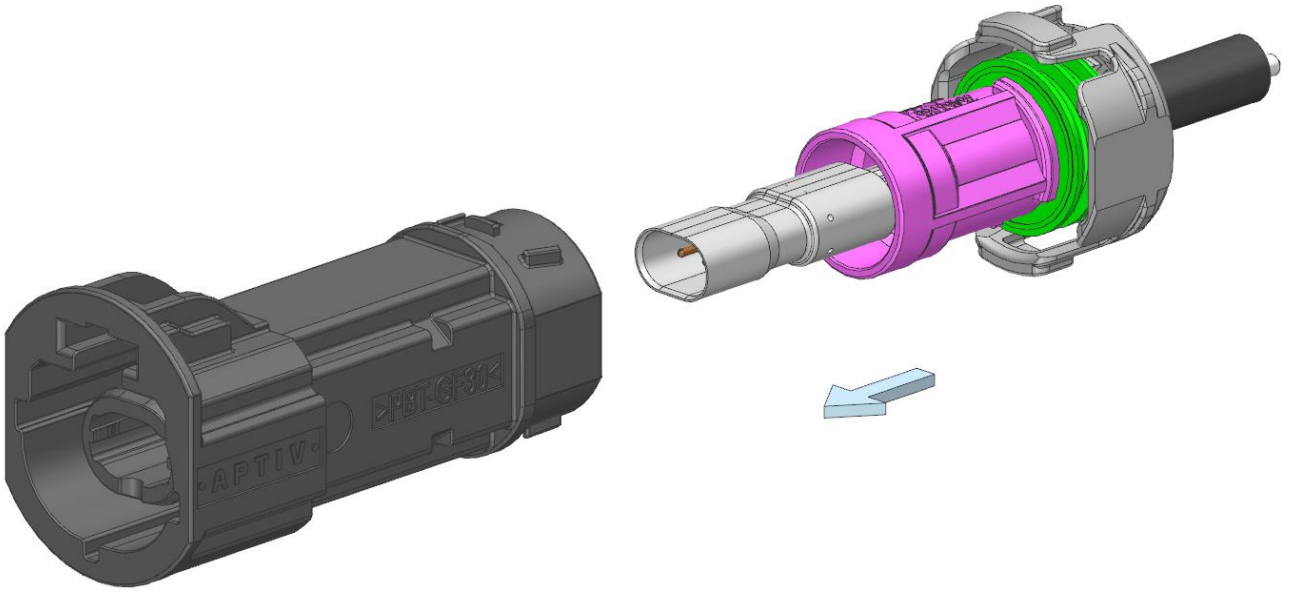




FRONT VIEW

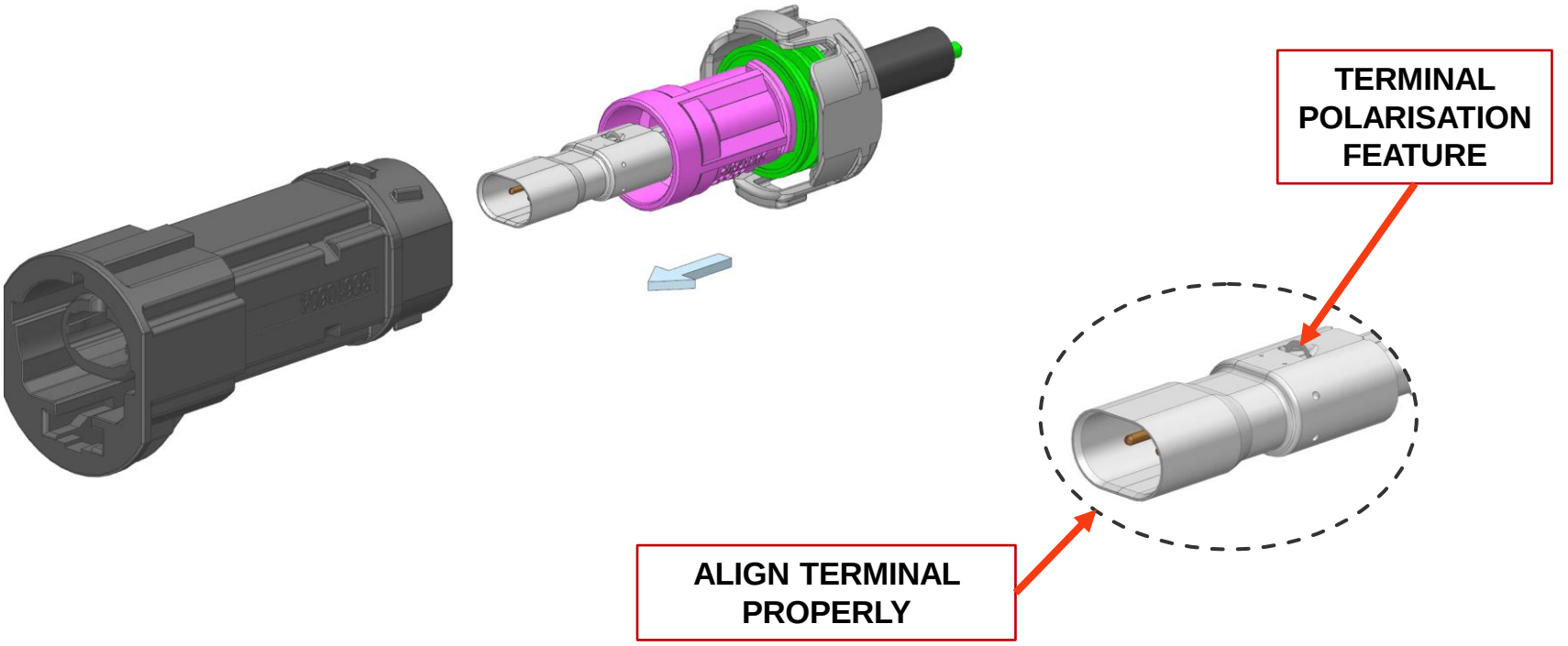
STEP 5a – INSERT MALE H-MTD TERMINAL

1 **IDENTIFY THE CORRECT ORIENTATION OF THE TERMINAL ASSEMBLED WITH PLR, CAP & CABLE SEAL AND ALIGN IT WITH THE CONNECTOR HOUSING**



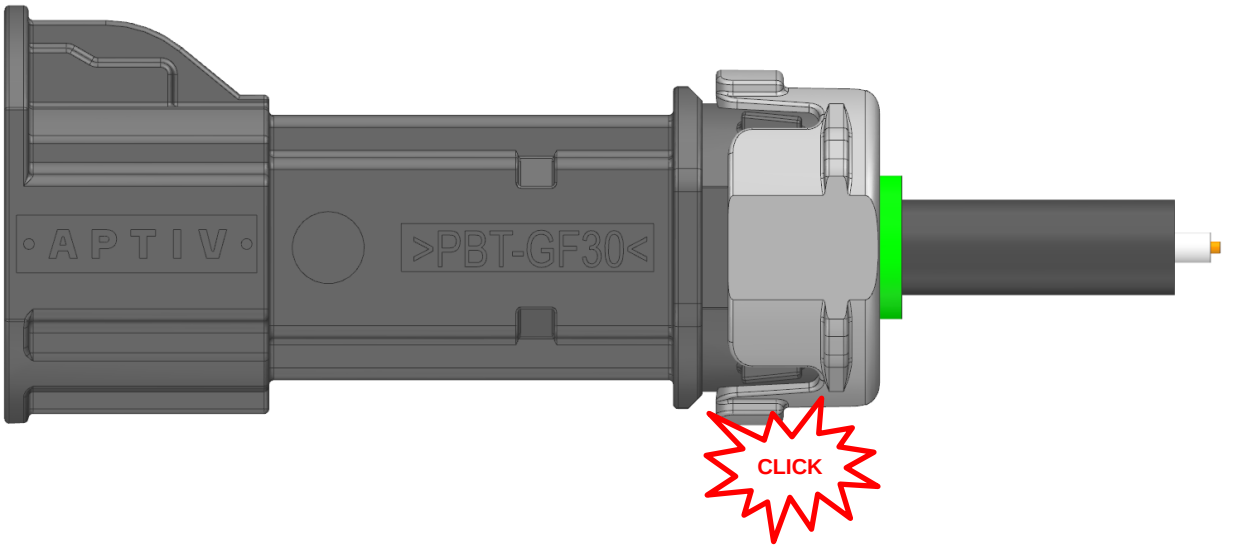
STEP 5b – INSERT MALE H-MTD TERMINAL

2 **ALIGN THE TERMINAL IN PROPER DIRECTION, CONSIDERING THE TERMINAL POLARISATION FEATURE**



STEP 5c – INSERT MALE H-MTD TERMINAL

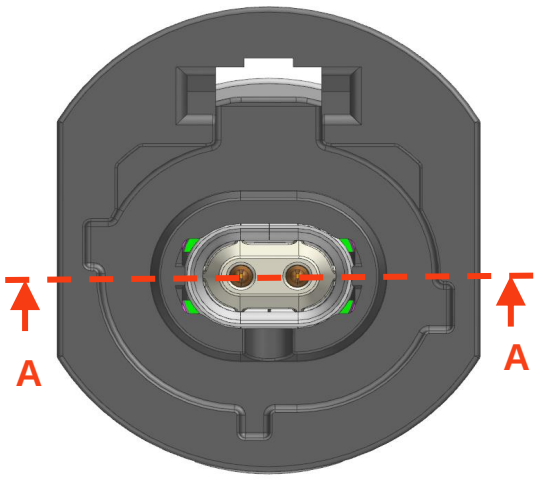
3 **PUSH THE TERMINAL STRAIGHT INTO THE CAVITY OF CONNECTOR HOUSING**

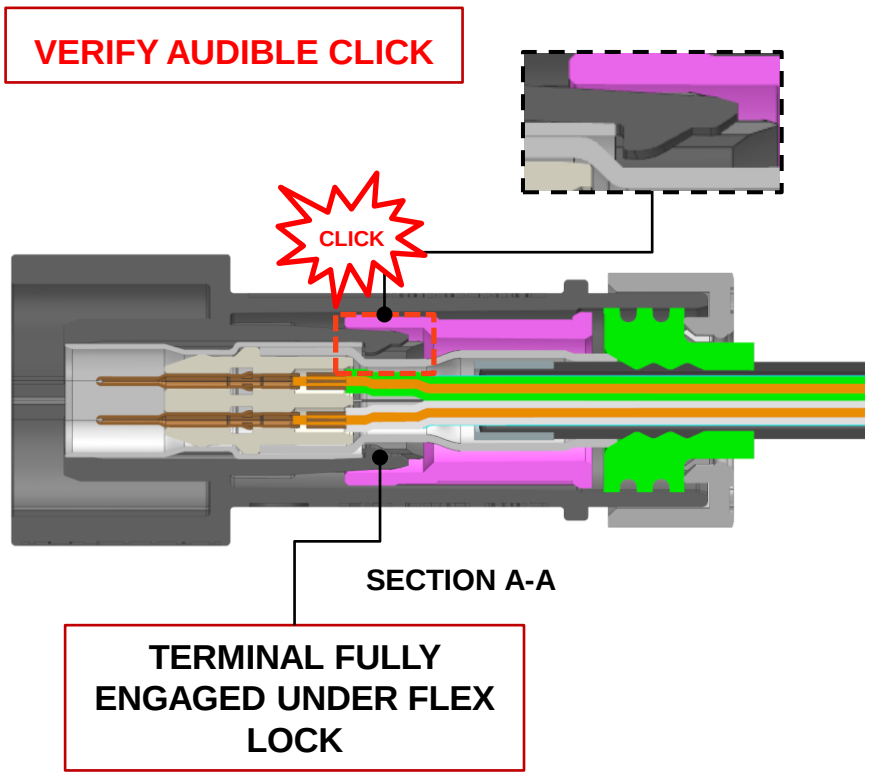


VERIFY AUDIBLE CLICK

STEP 5d – INSERT MALE H-MTD TERMINAL

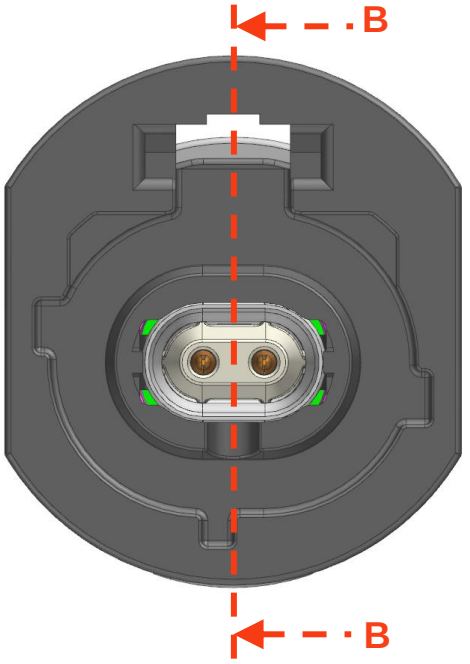
4 **ENSURE THE TERMINAL IS PROPERLY LOCKED UNDER THE FLEX LOCK IN THE CONNECTOR HOUSING**

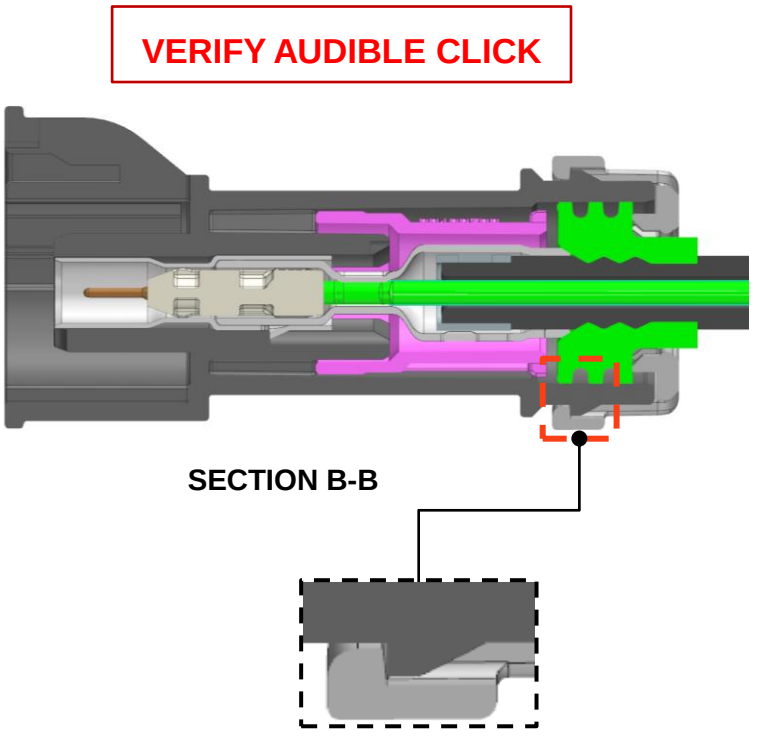




STEP 5e – INSERT MALE H-MTD TERMINAL

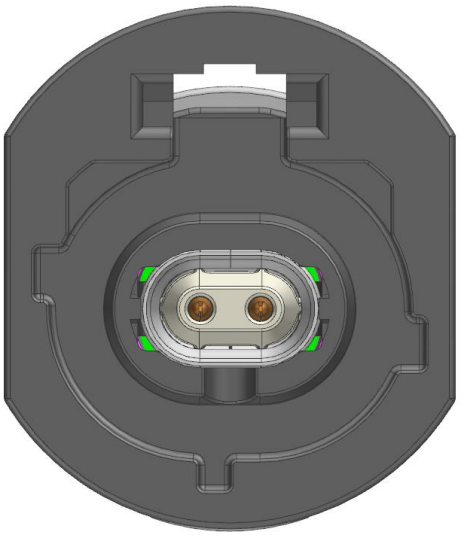
5 **THE CAP MUST BE ALIGNED WITH THE CONNECTOR HOUSING AND LOCKED IN PROVIDED SET OF LOCKS**

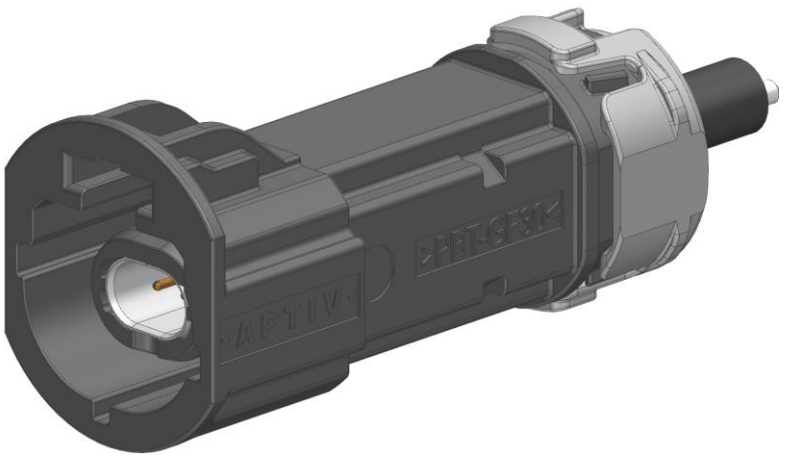


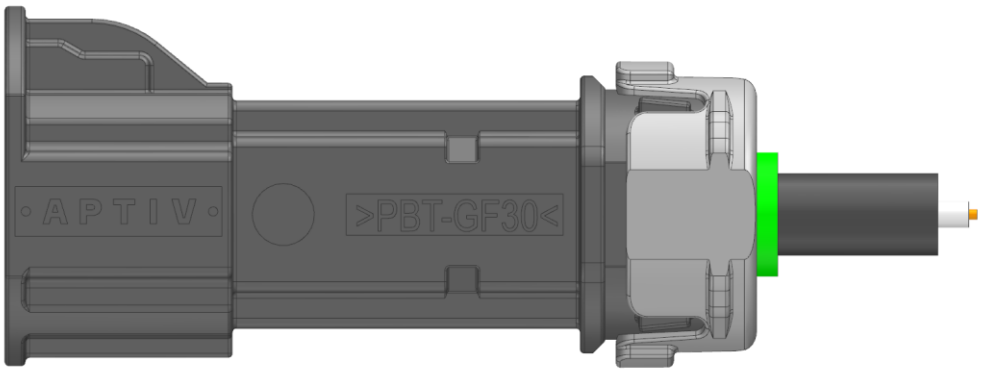


***DO NOT FORCE THE CAP , IF IT CANNOT BE LOCKED, REVIEW IF PLR & TERMINAL IS PROPERLY SEATED**

MALE HARNESS ASSEMBLY – COMPLETED



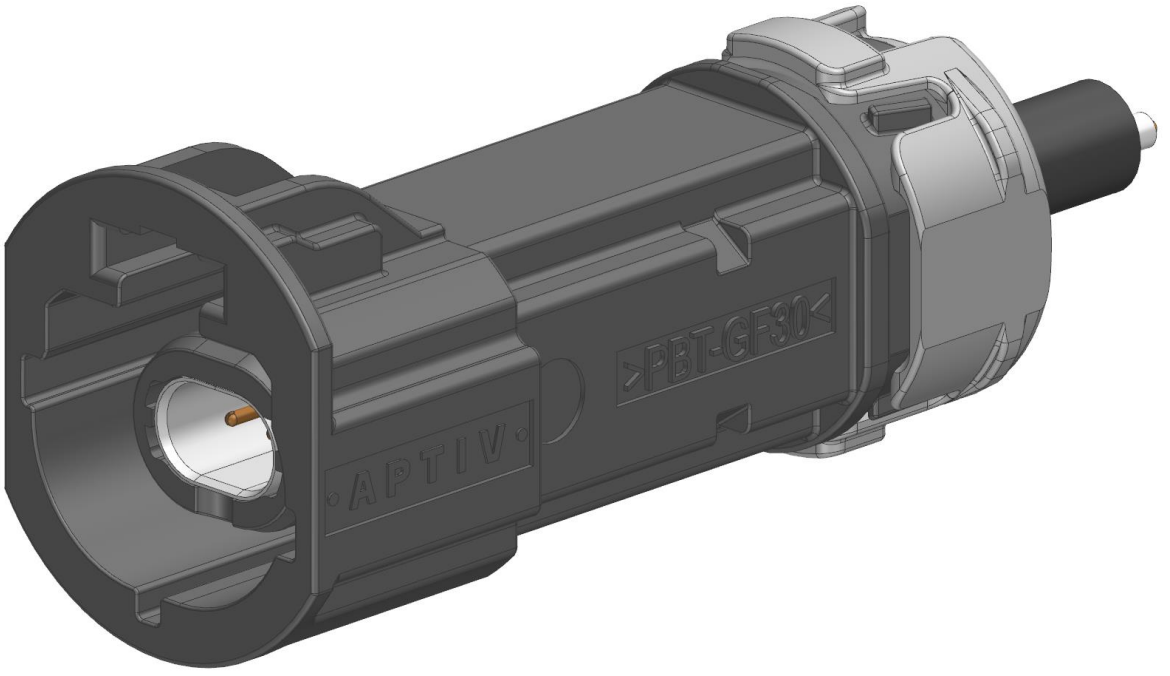




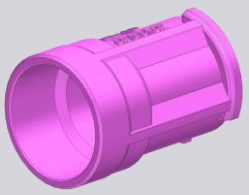
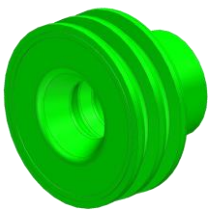
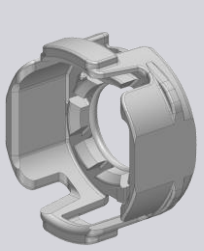
PERFORM TESTS, APPLY COVERINGS AS REQUIRED. INSPECT THE ASSEMBLY.

REPAIR/REPLACEMENT
OF THE MALE
ASSEMBLY

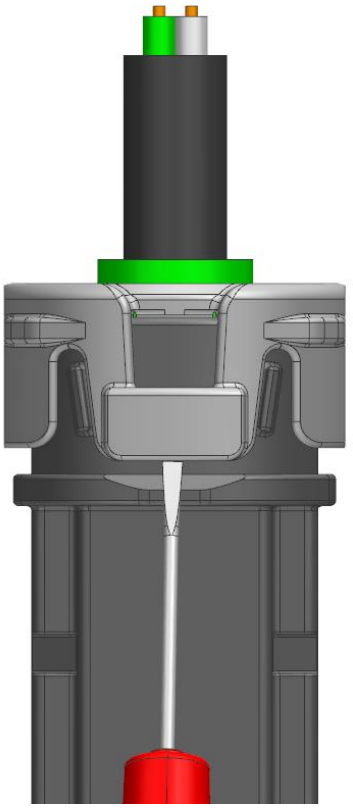
1 PORT H-MTD Sealed Connector



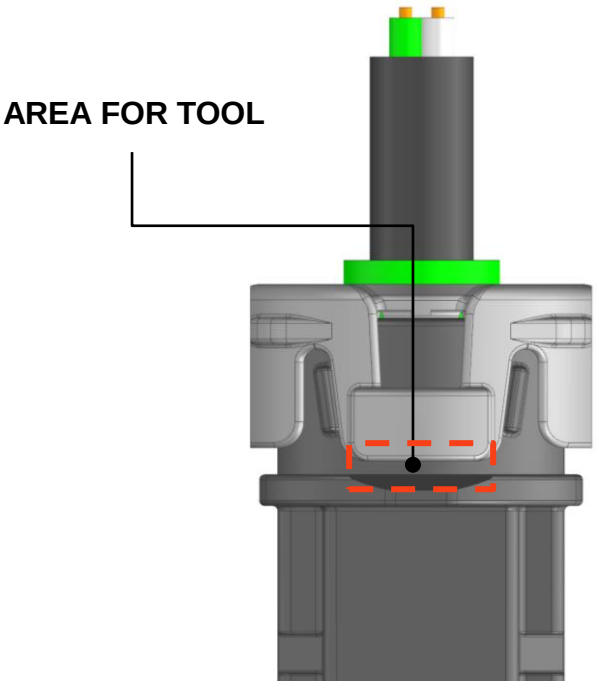
COMPONENT REPAIR/ REUSE CAPABILITIES

COMPONENT	IS IT REPAIRABLE?/ REUSABLE	COMMENTS
	NO	CONNECTOR HOUSING MUST BE REPLACED
	NO	PLR MUST BE REPLACED
	NO	CABLE SEAL MUST BE REPLACED
	NO	CAP MUST BE REPLACED
	YES	CRIMPED TERMINAL IS RECOVERABLE; VERIFY ITS CONDITION BEFORE REUSE

STEP 1a - MALE H-MTD TERMINAL REPLACEMENT (Locate Tool)

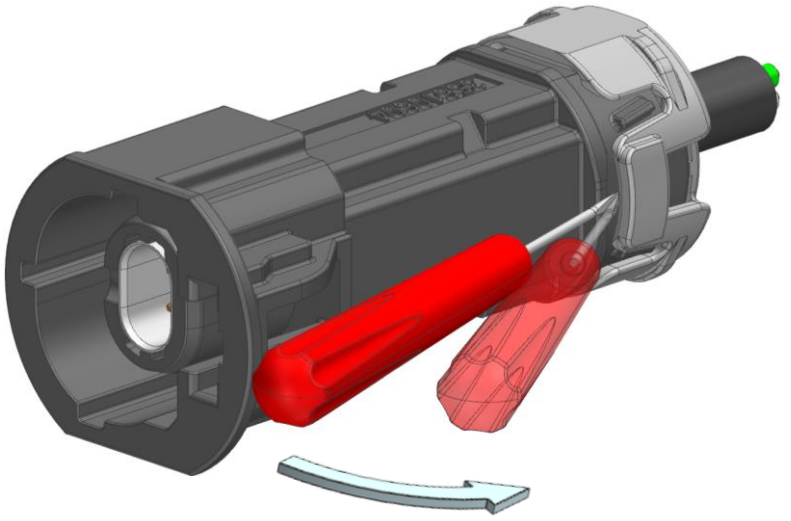


LOCATE THE AREA TO INSERT THE TOOL

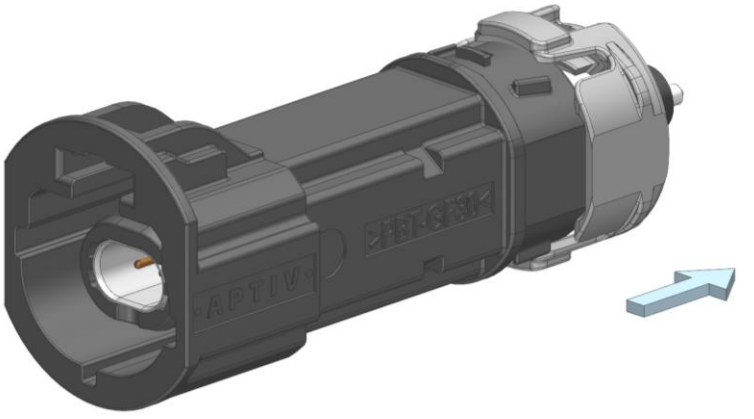


STEP 2a - MALE H-MTD TERMINAL REPLACEMENT (Remove CAP)

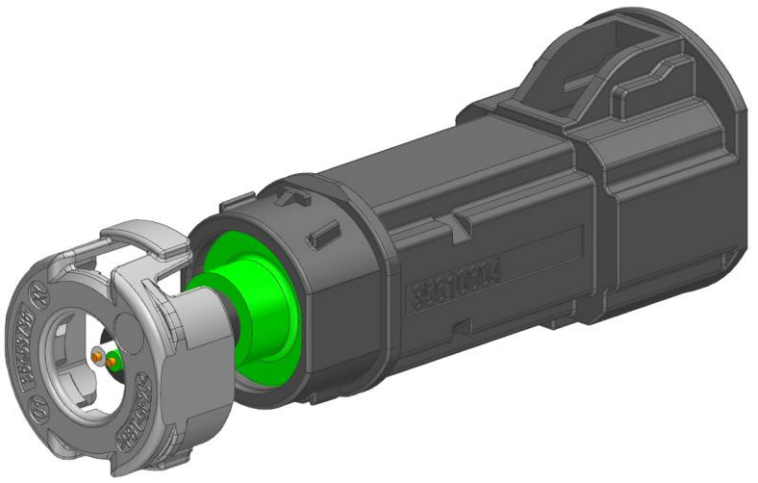
1 **INSERT TIP OF TOOL BETWEEN THE CAP AND CONNECTOR HOUSING**

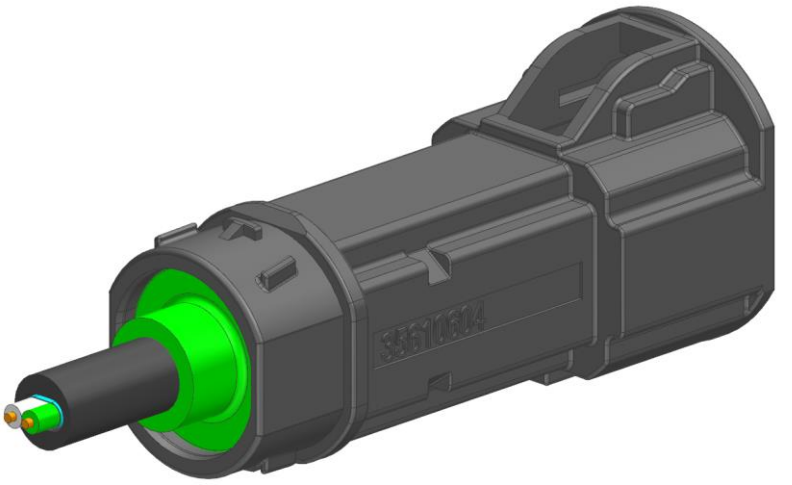


2 **USE THE CONNECTOR AS LEVERAGE TO LIFT AND RELEASE THE CAP FROM ITS LOCKED POSITION**



STEP 2b - MALE H-MTD TERMINAL REPLACEMENT (Remove CAP)

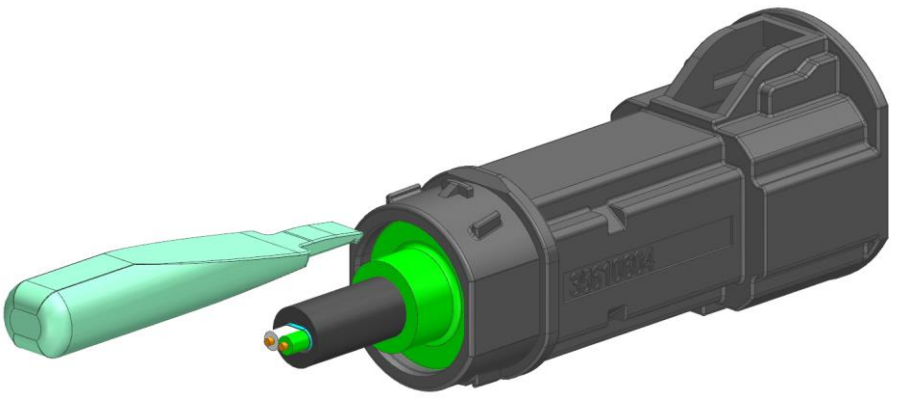




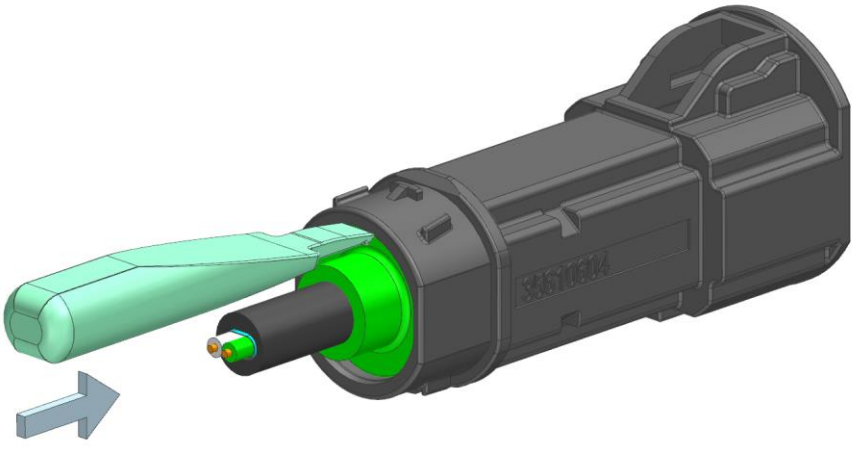
CAP REMOVED

STEP 3a - MALE H-MTD TERMINAL REPLACEMENT (Remove Cable Seal)

1 **ALIGN THE CABLE SEAL REMOVAL TOOL IN PROPER DIRECTION**

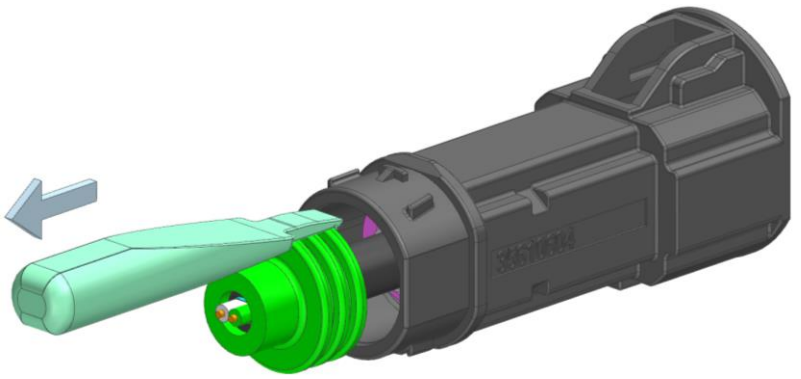


2 **INSERT THE TOOL BETWEEN CABLE SEAL AND CONNECTOR HOUSING**



STEP 3b - MALE H-MTD TERMINAL REPLACEMENT (Remove Cable Seal)

3 **PULL THE CABLE SEAL OUT OF CONNECTOR HOUSING BY USING THE TOOL**

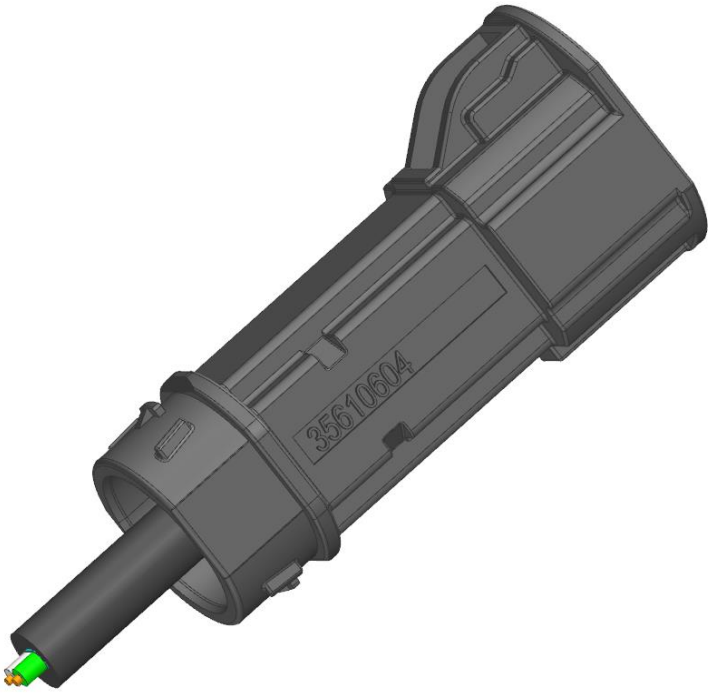




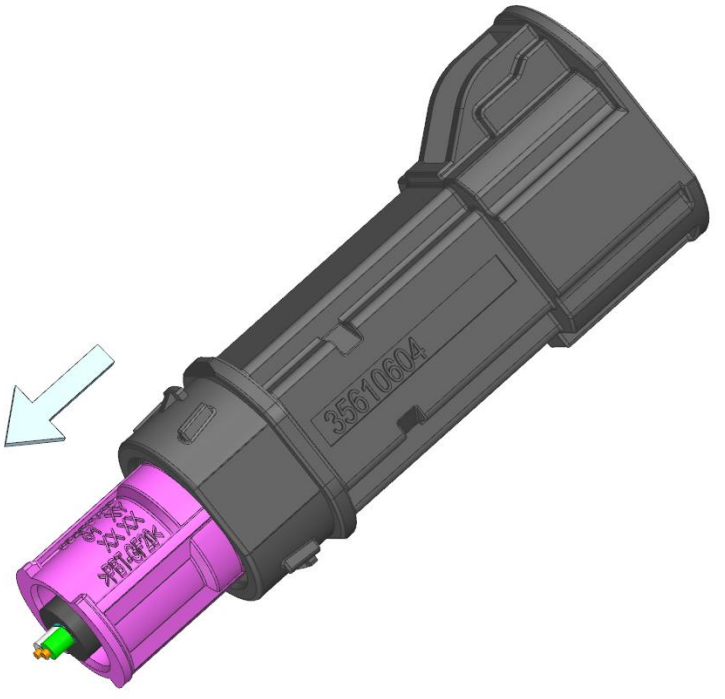
CABLE SEAL REMOVED

STEP 4a - MALE H-MTD TERMINAL REPLACEMENT (Remove PLR)

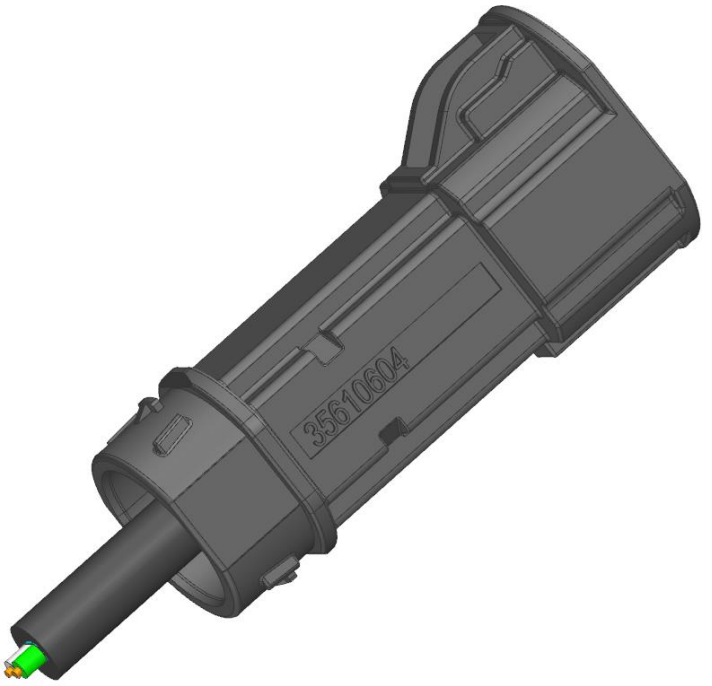
1 **TILT THE CONNECTOR HOUSING CABLE END DOWNWARDS**

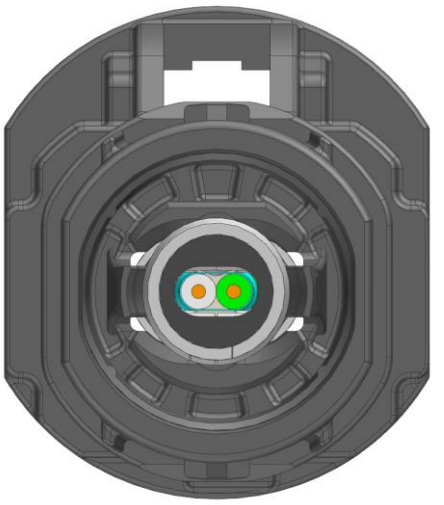


2 **WHILE TILTING, THE PLR IS REMOVED FROM THE CONNECTOR.**



STEP 4b - MALE H-MTD TERMINAL REPLACEMENT (Remove PLR)

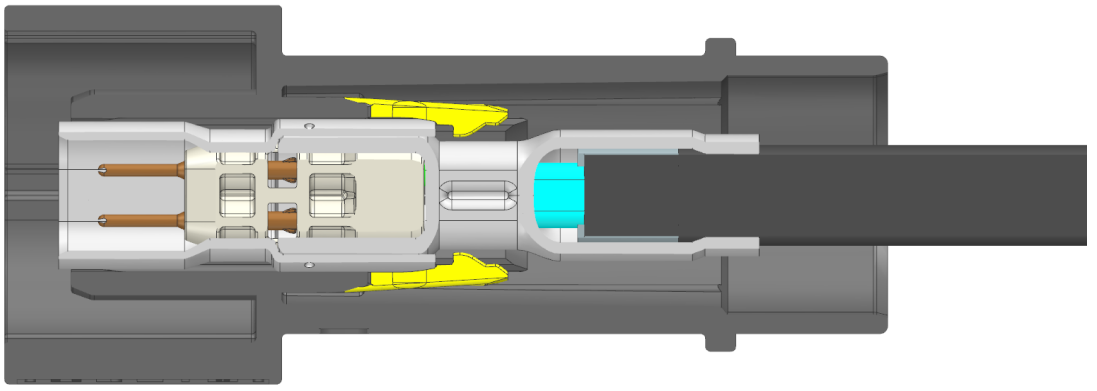


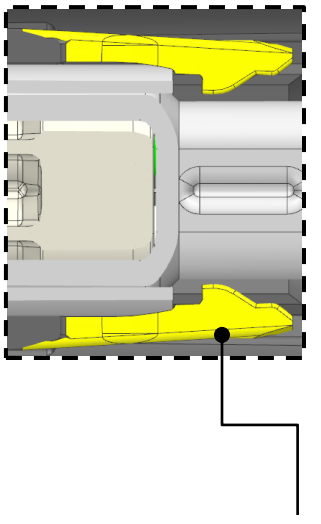


PLR REMOVED

STEP 5a - MALE H-MTD TERMINAL REPLACEMENT (Remove Terminal)

LOCATE THE TERMINAL FLEX LOCK (HIGHLIGHTED IN YELLOW)

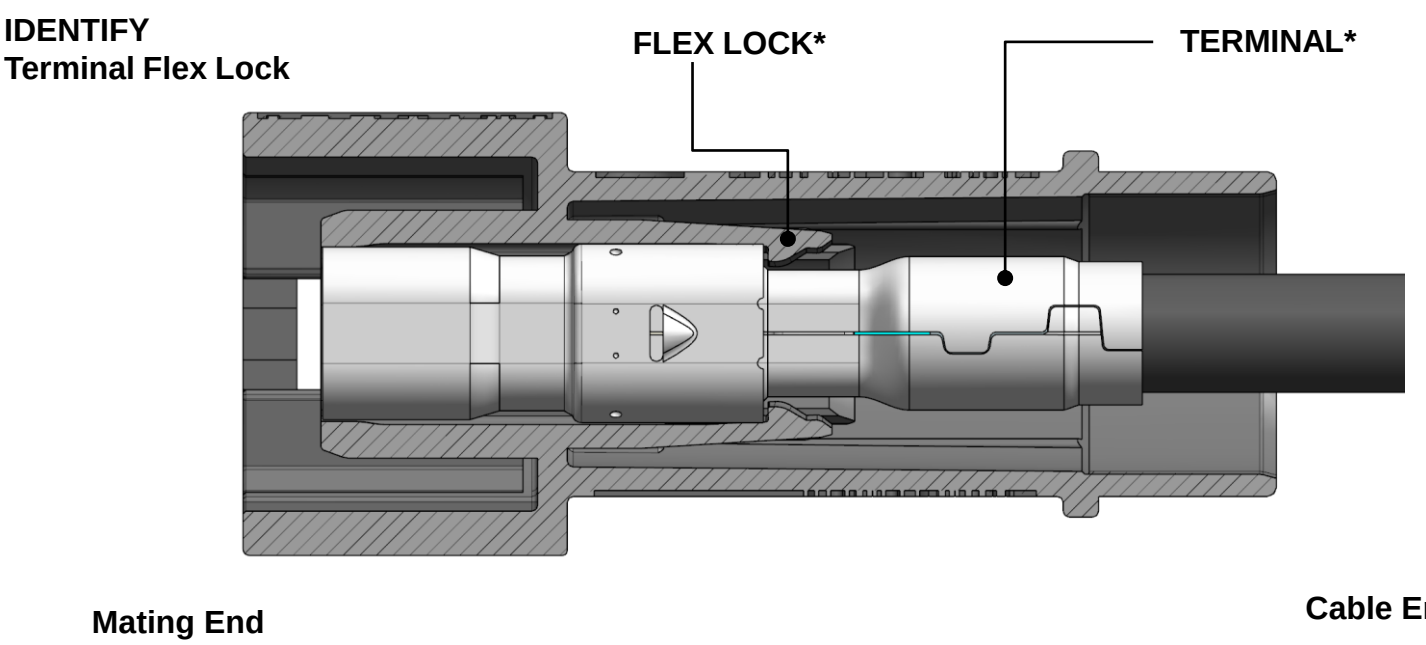




TERMINAL FLEX LOCK

STEP 5b - MALE H-MTD TERMINAL REPLACEMENT (Remove Terminal)

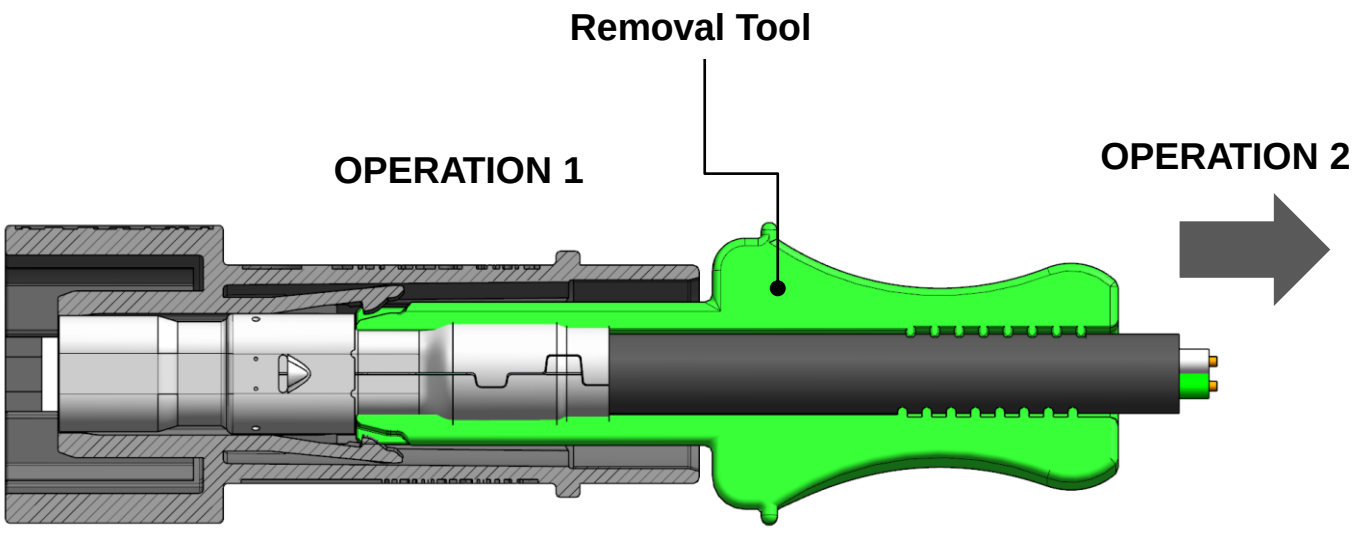
REMOVE TERMINALS



* This graph just represents how this kind of terminals are removed.

STEP 5c - MALE H-MTD TERMINAL REPLACEMENT (Remove Terminal)

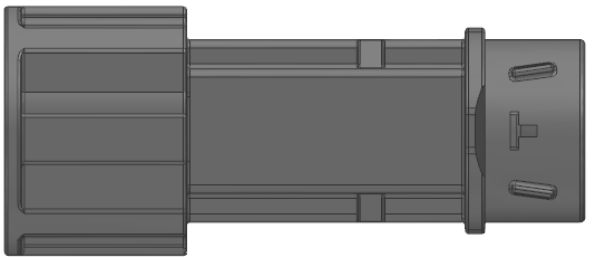
REMOVE TERMINALS

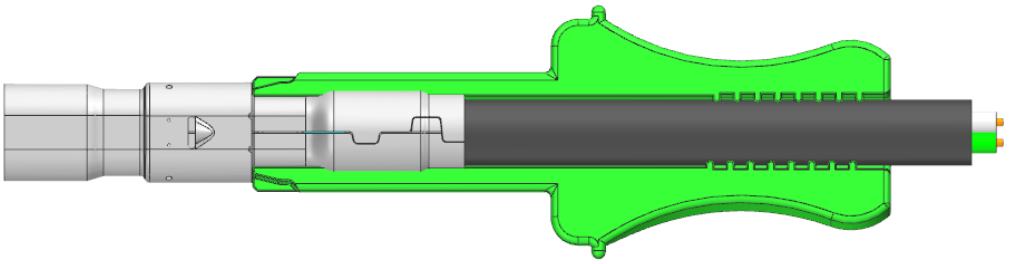


LOCATE FLEX LOCK & INSERT (OPERATION 1) TOOL BETWEEN THE FLEX LOCK AND TERMINAL, DEFLECT THE FLEX LOCK TO UNSEAT THE TERMINAL AND GENTLY PULL ON THE CABLE TO REMOVE (OPERATION 2) THE TERMINAL FROM THE CONNECTOR.

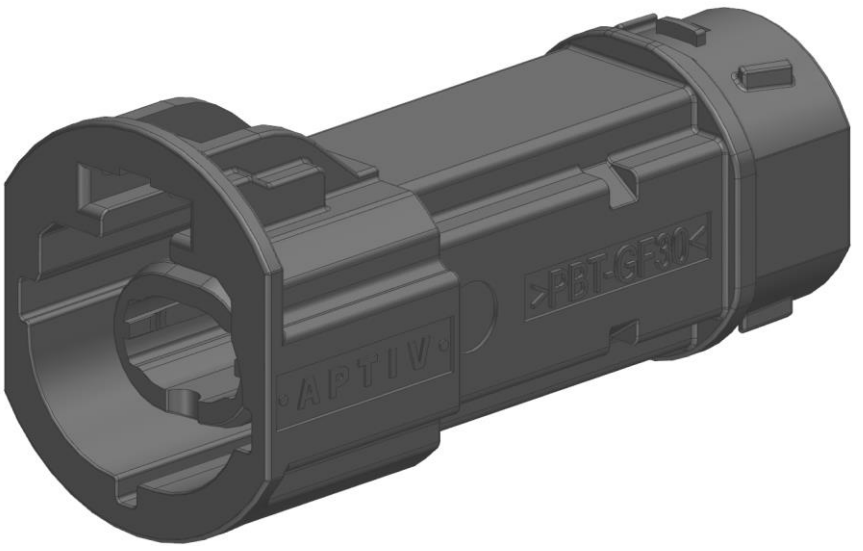
* This graph just represents how this kind of terminals are removed.

STEP 5d - MALE H-MTD TERMINAL REPLACEMENT (Remove Terminal)





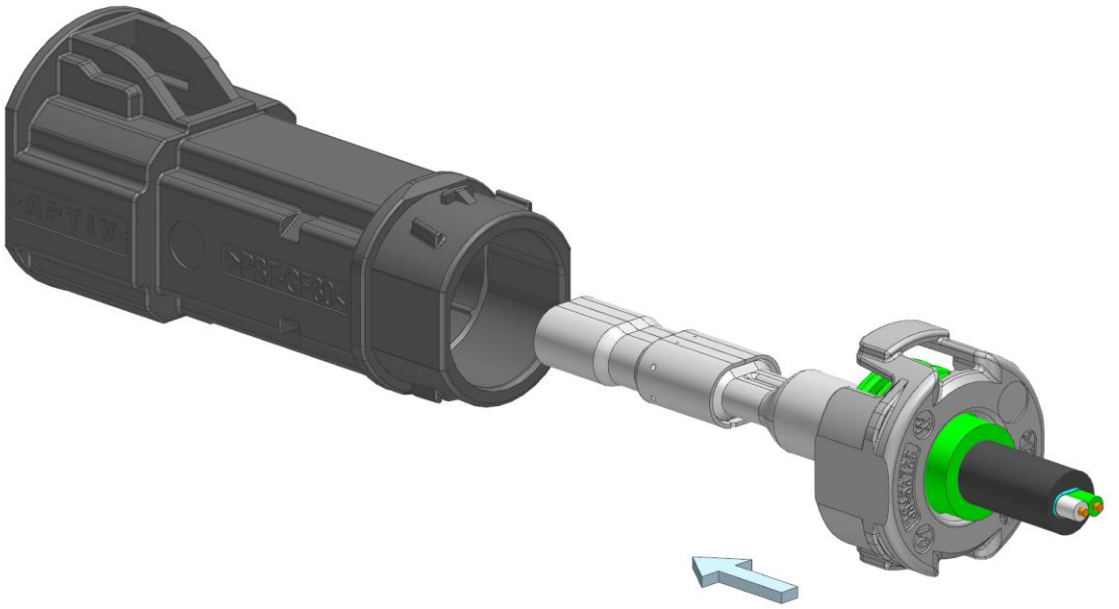
REMOVE THE TERMINAL FROM THE MALE CONNECTOR HOUSING



TERMINAL REMOVED

STEP 6- MALE H-MTD TERMINAL REPLACEMENT (Insert Terminal)

REFER TO HARNESS ASSEMBLY SECTION



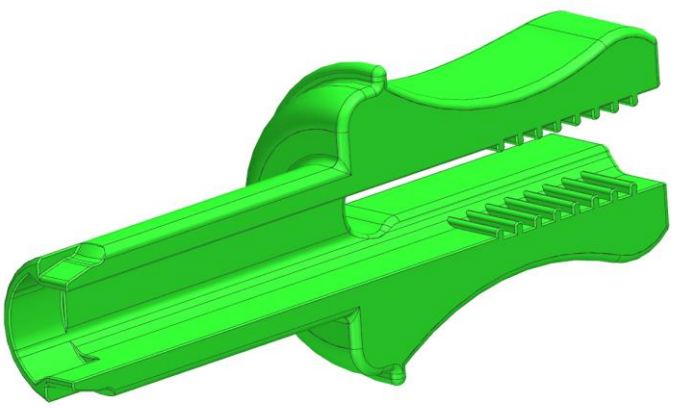


RECOMMENDED REPAIR TOOLS

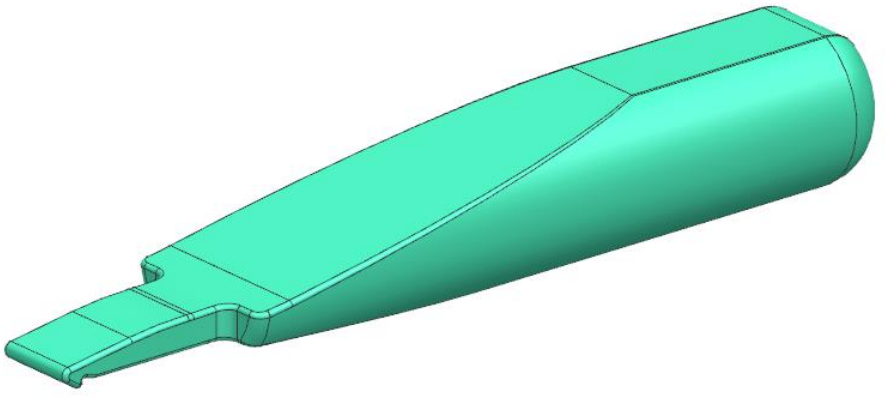
1



2



3



ITEM	TOOL DESCRIPTION
1	CAP REMOVAL TOOL
2	TERMINAL REMOVAL TOOL
3	CABLE SEAL REMOVAL TOOL

REVISIONS

DATE	REV	REVISION HISTORY	AUTH
03SE24	01	INITIAL RELEASE	AS