

REVISIONS				
REV	DESCRIPTION	DATE	GUARDIAN	APPROVED
A	NEW DWG (EAR 14988)	NOV10/22		K. LAMBIE
B	NEW REV (EAR 14988)	JUN26/24	R. D'AMICO	K. LAMBIE



ORDERING CODE: NDH - R 6 A X

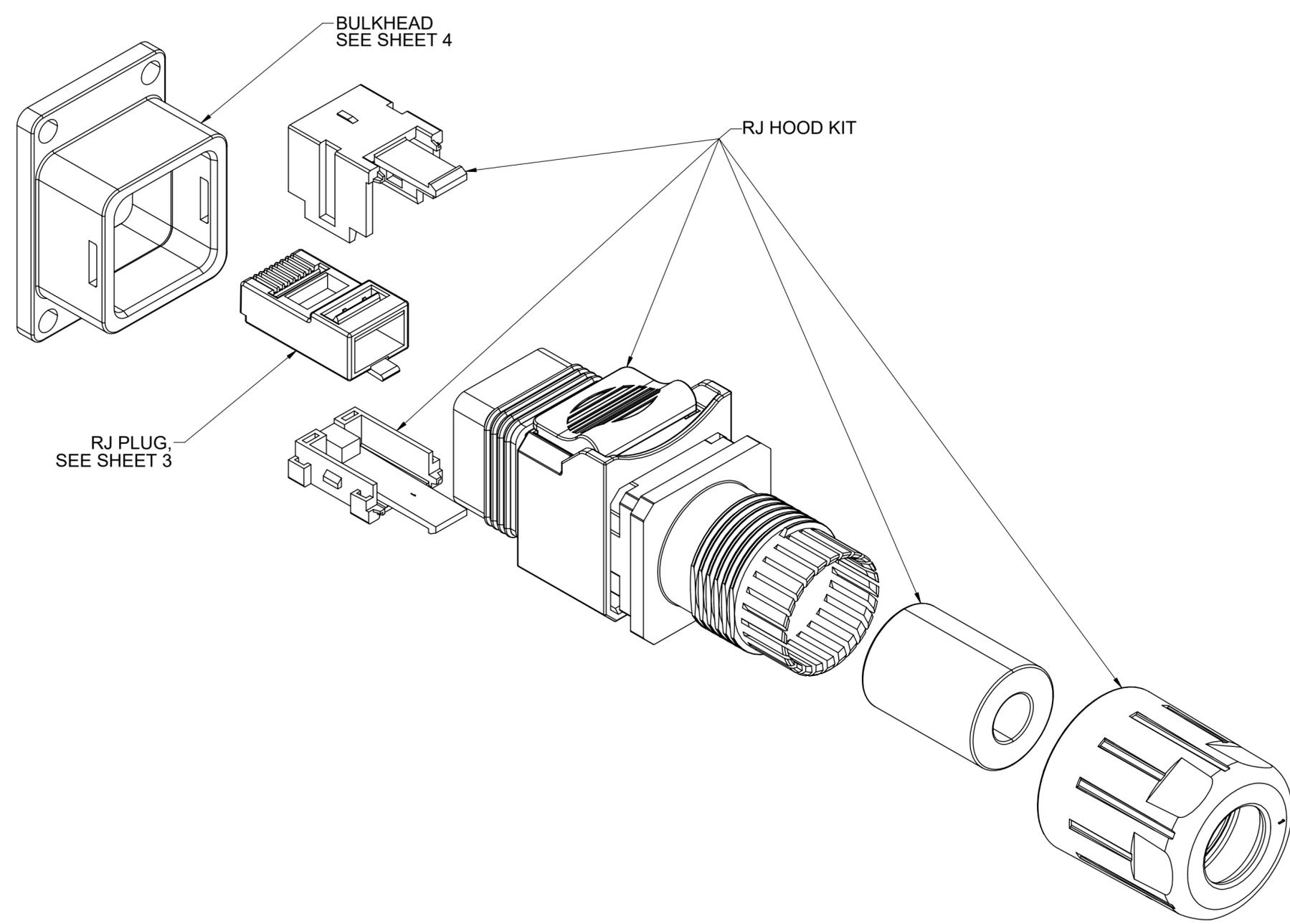
SERIES, INDUSTRIAL SQUARE
PUSH/PULL DESIGN

RJ45, TAB DOWN

KIT CONFIGURATION:
6 = BULKHEAD, HOOD + PLUG KIT

PLUG STYLE
A = 8 CONTACTS, CAT 5e, UN-SHIELDED

PLATING FOR RJ PLUG MATING AREA
4 = 1.27µm (50µ") GOLD
6 = 0.38µm (15µ") GOLD



NOTES:

- MATERIAL: RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.
 - HOOD COVERS, BODY, SLIDE, BULKHEAD & END CAP: PBT GLASS REINFORCED, COLOUR: BLACK
 - HOOD LOCK: PBT GLASS REINFORCED, COLOUR: RED
 - GASKETS & GROMMET: SILICONE RUBBER, COLOUR: BLACK
 - PLUG HOUSING: POLYCARBONATE UL94V-2, COLOUR: CLEAR
 - PLUG CONTACTS: COPPER ALLOY PLATED WITH GOLD (SEE ORDERING CODE) OVER 1.27 µm (50µ") MINIMUM NICKEL ON THE MATING AREA
- CURRENT RATING: 1.5 AMPERES PER CONTACT
- OPERATING TEMPERATURE -40 °C TO +80 °C
- DIELECTRIC WITHSTANDING VOLTAGE: 1000 V AC RMS
- INSULATION RESISTANCE: 500 MEGOHMS MINIMUM
- NDH-R6AX BULKHEAD, HOOD & PLUG KIT IS PART OF AN IP67 SEALED SOLUTION WITH PUSH/PULL MATING FOR MODULAR JACK ETHERNET APPLICATIONS. THE IP67 RATING APPLIES IN THE MATED CONDITION FOR BOTH THE ENCLOSURE AND THE MATING INTERFACE.
- FOR THE PCB MOUNTED MODULAR JACK, REFER TO AMPHENOL DRAWING P-RJE7H-188-0X10-R. THE JACK IS AN 8 CONTACT, SHIELDED, TAB DOWN, ULTRA LOW PROFILE RIGHT ANGLE DESIGN CONNECTOR.
- TO ORDER PARTS SEPARATELY, REFER TO AMPHENOL DRAWINGS P-NDH-N200 FOR THE BULKHEAD, P-NDH-R3AX FOR THE HOOD AND PLUG KIT OR P-NDH-R100 FOR THE HOOD KIT.
- CONSULT WITH AMPHENOL IF CABLE ASSEMBLY IS REQUIRED

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UNLESS SPECIFIED OTHERWISE	DRAWN	K. MORRISON	OCT13/22
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REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APP'D	K. LAMBIE	NOV10/22
1 DECIMAL PLACE	ENG NO.		
2 DECIMAL PLACES ±0.30	RELEASE STATE		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

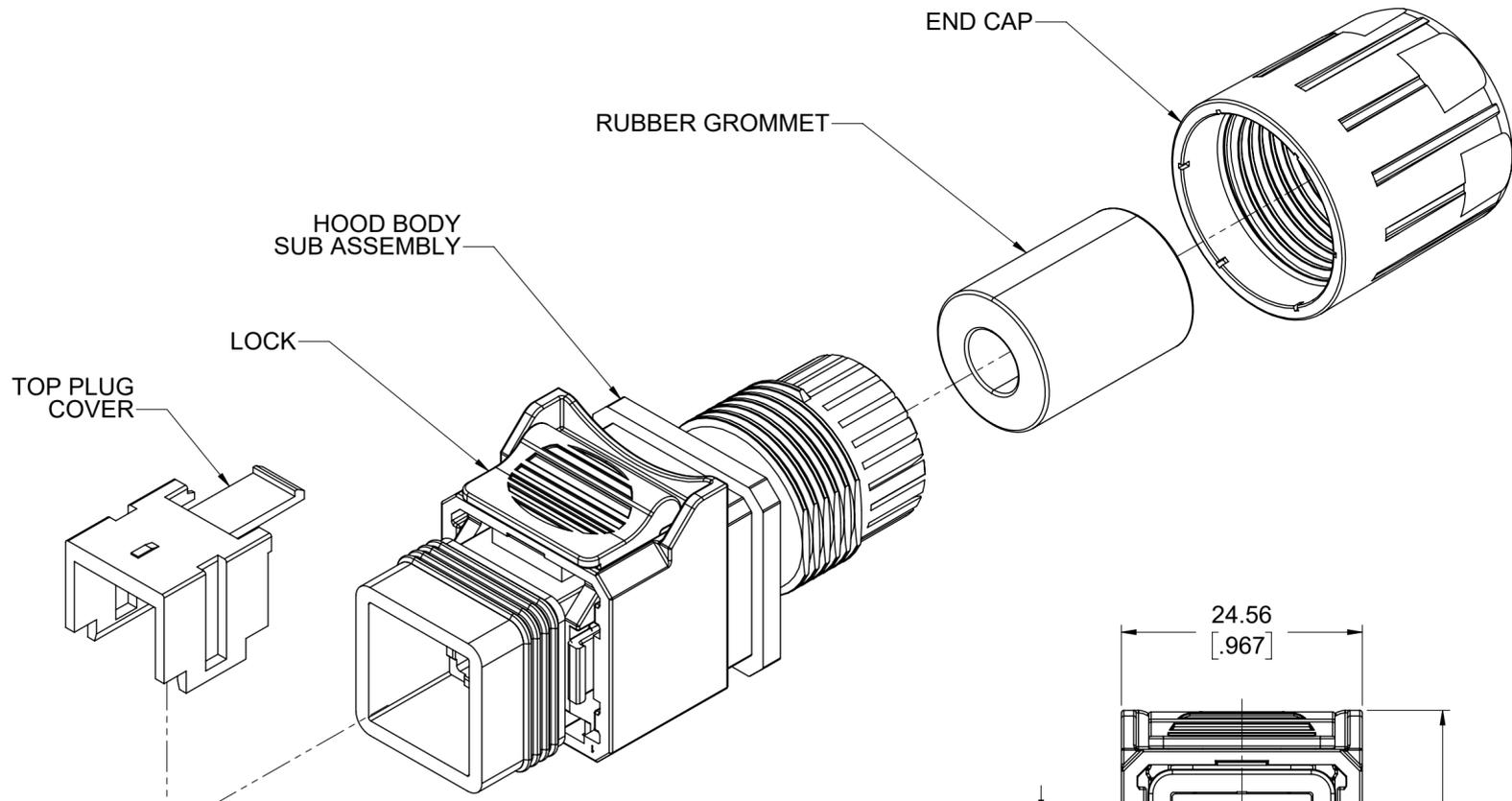
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Commercial Products

NDH SERIES, RJ BULKHEAD, HOOD KIT & PLUG KIT, IP67, CAT 5e, PLUG TAB DOWN, RoHS COMPLIANT

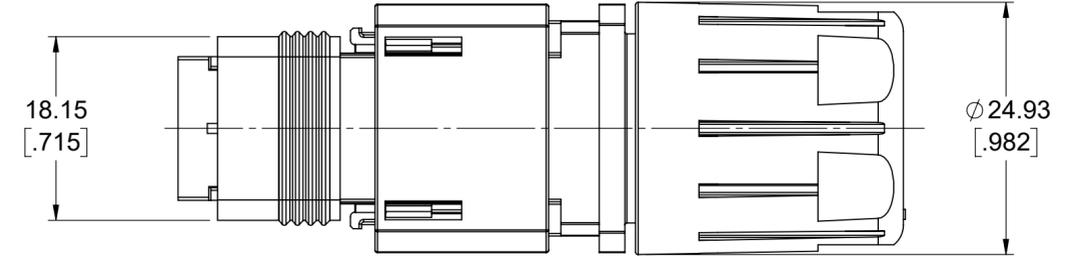
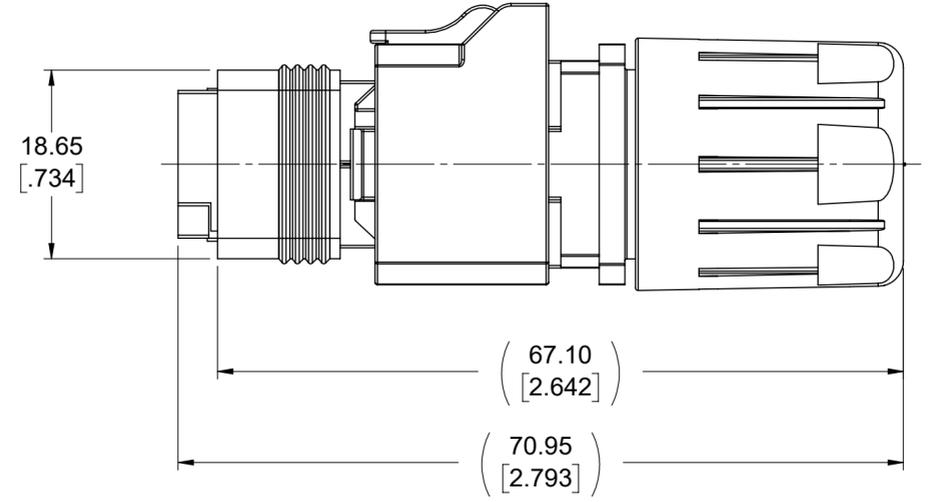
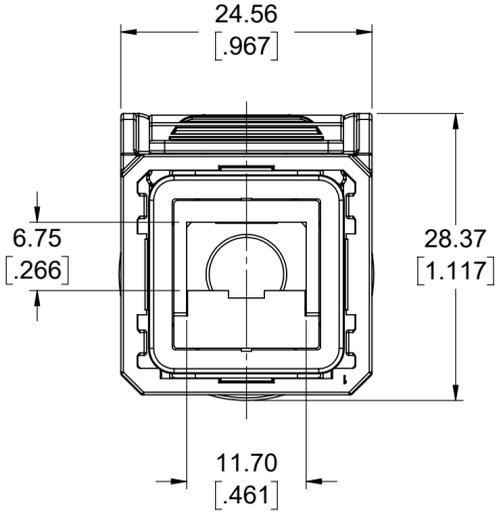
DWG. NO. **P-NDH-R6AX** REV **B**

CODE ID NO. 03554 DWG SIZE: C SCALE: 2:1 SHEET 1 OF 6

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RJ HOOD KIT



THE TOP AND BOTTOM PLUG COVERS HAVE A POKA-YOKE FEATURE. THEY CAN ONLY BE ASSEMBLED ONTO THE PLUG AND INTO THE HOOD BODY IN ONE WAY.

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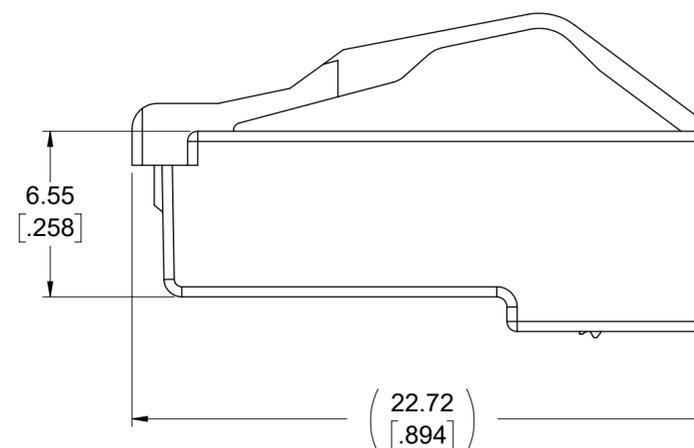
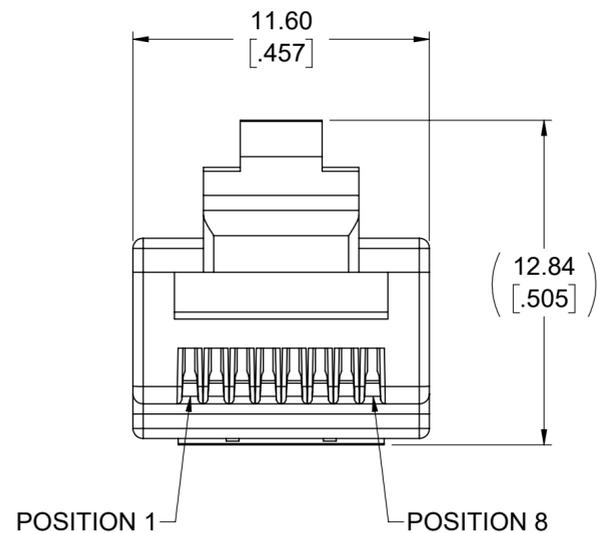
CODE ID NO. 03554 DWG SIZE: C SCALE: 2:1 SHEET 2 OF 6

CONNECTOR PIN ASSIGNMENT FOR ETHERNET

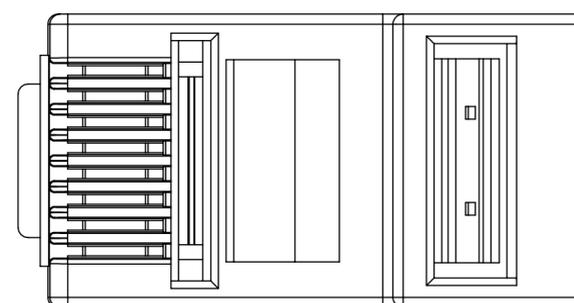
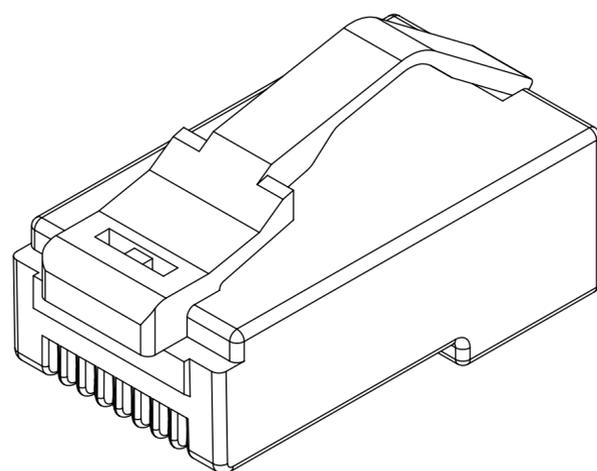
RJ45 PIN NUMBER	T568A		T568B		PIN ASSIGNMENT 10 OR 100 MBit/s ETHERNET	PIN ASSIGNMENT ETHERNET
	WIRE PAIR	WIRE COLOUR	WIRE PAIR	WIRE COLOUR		
1	3	WHITE/GREEN	2	WHITE/ORANGE	TX+	DA+
2		GREEN		ORANGE	TX-	DA-
3	2	WHITE/ORANGE	3	WHITE/GREEN	RX+	DB+
4	1	BLUE	1	BLUE	NOT USED	DC+
5		WHITE/BLUE		WHITE/BLUE	NOT USED	DC-
6	2	ORANGE	3	GREEN	RX-	DB-
7	4	WHITE/BROWN	4	WHITE/BROWN	NOT USED	DD+
8		BROWN		BROWN	NOT USED	DD-

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RECOMMENDED CABLE SPECIFICATIONS		
ITEMS		DESCRIPTION
CONDUCTORS	SIZE	24 - 26 AWG
	STRANDS	7 STRANDS PER WIRE
	MATERIAL	ANNEALED COPPER WIRE
INSULATION OUTSIDE DIAMETER		Ø 0.89 - 1.00mm (Ø .035 - .039")
JACKET OUTSIDE DIAMETER		Ø 5.3mm - 6.8mm (Ø .208 - .268")



RJ PLUG



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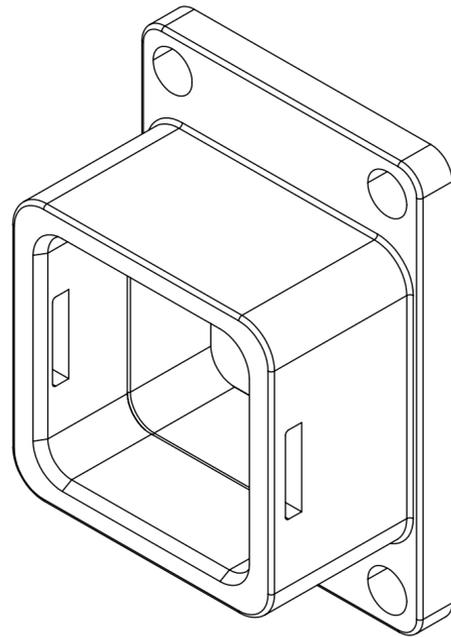
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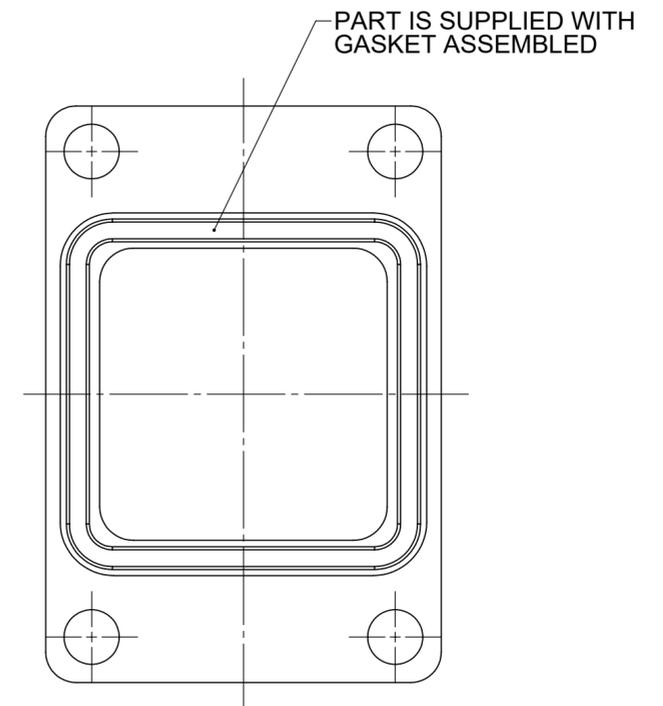
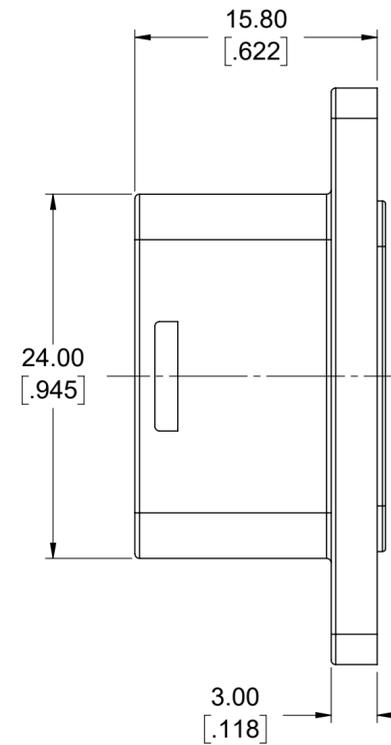
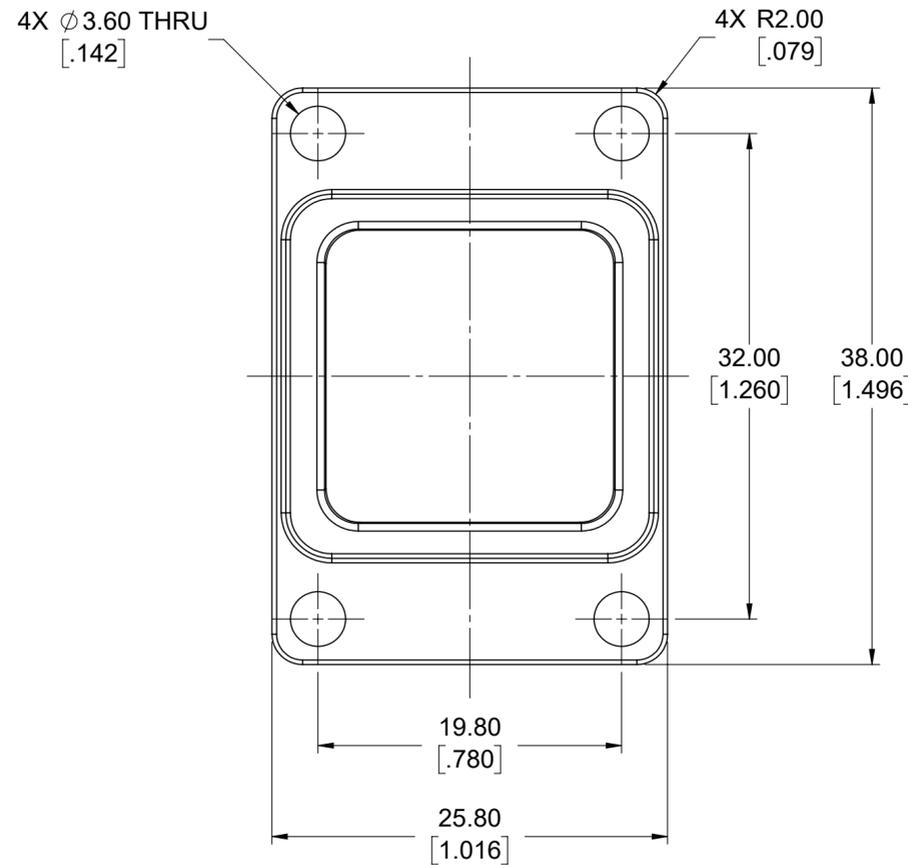
NDH SERIES, RJ BULKHEAD, HOOD KIT & PLUG KIT, IP67, CAT 5e, PLUG TAB DOWN, RoHS COMPLIANT

DWG. NO.	P-NDH-R6AX		REV
CODE ID NO.	03554	DWG SIZE: C	B
SCALE: 5:1	SHEET 3 OF 6		

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BULKHEAD



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ANGULAR DEGREES			

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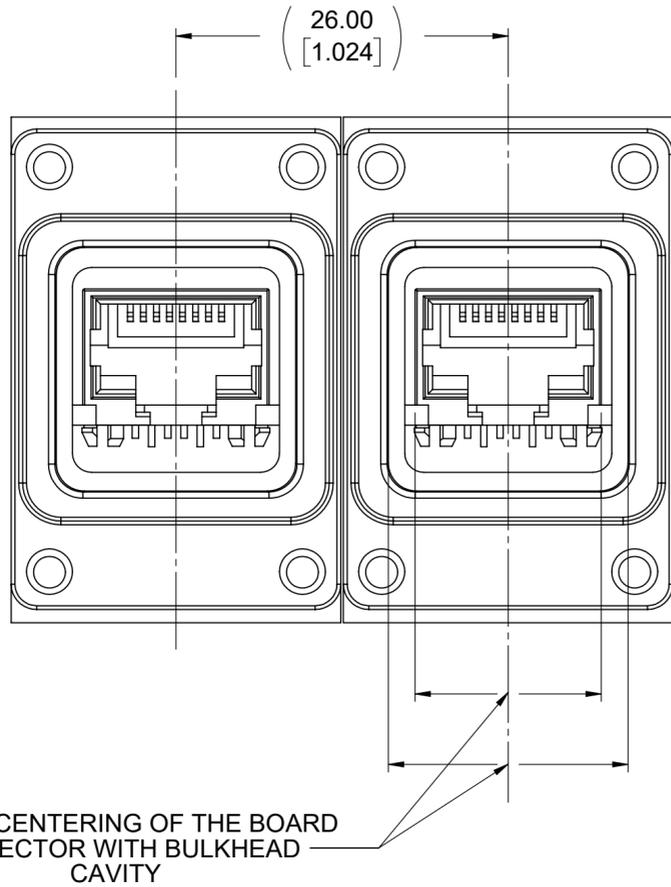
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CODE ID NO. 03554 DWG SIZE: C SCALE: 3:1 SHEET 4 OF 6

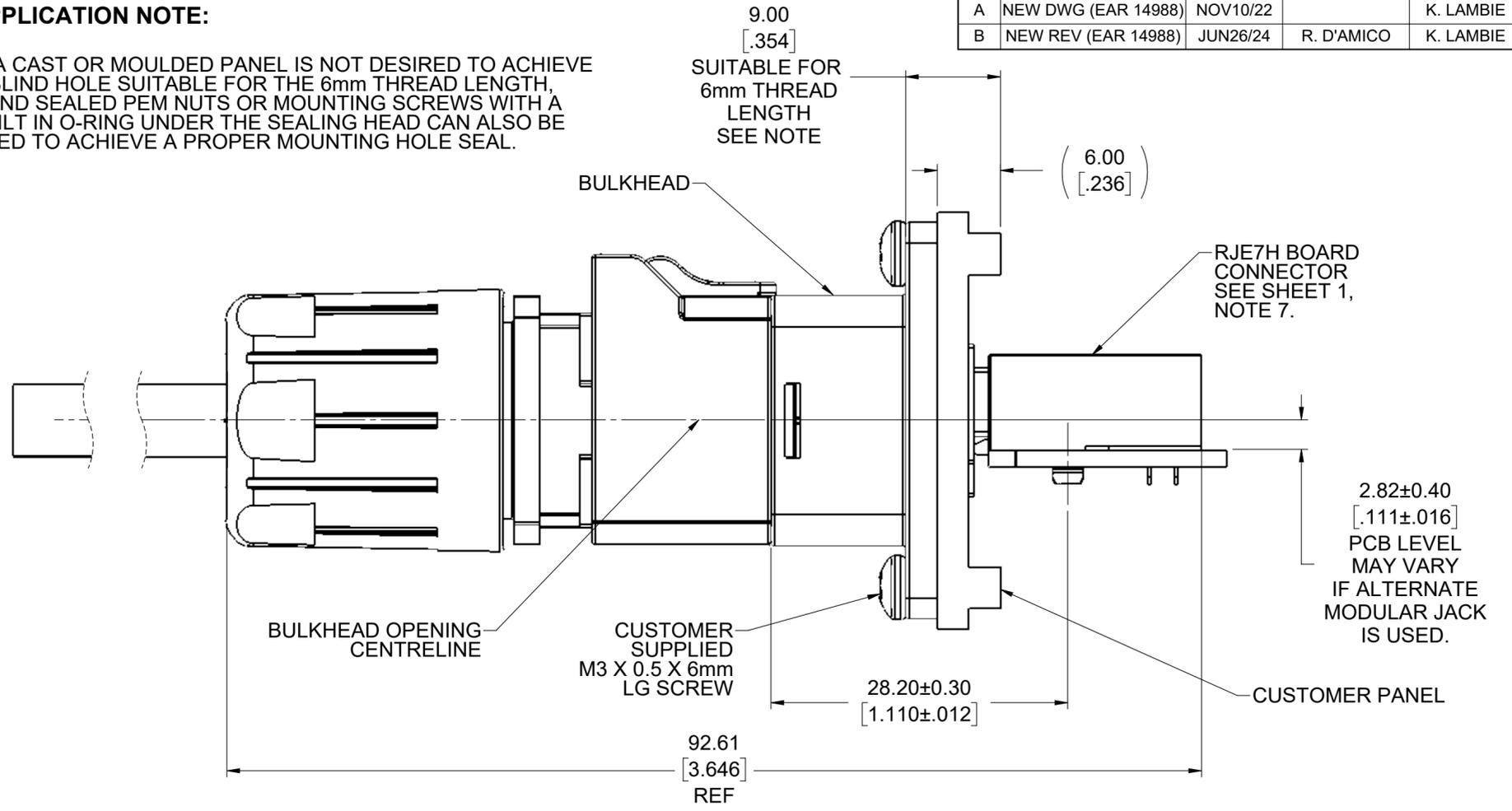
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BULKHEAD PORT SPACING

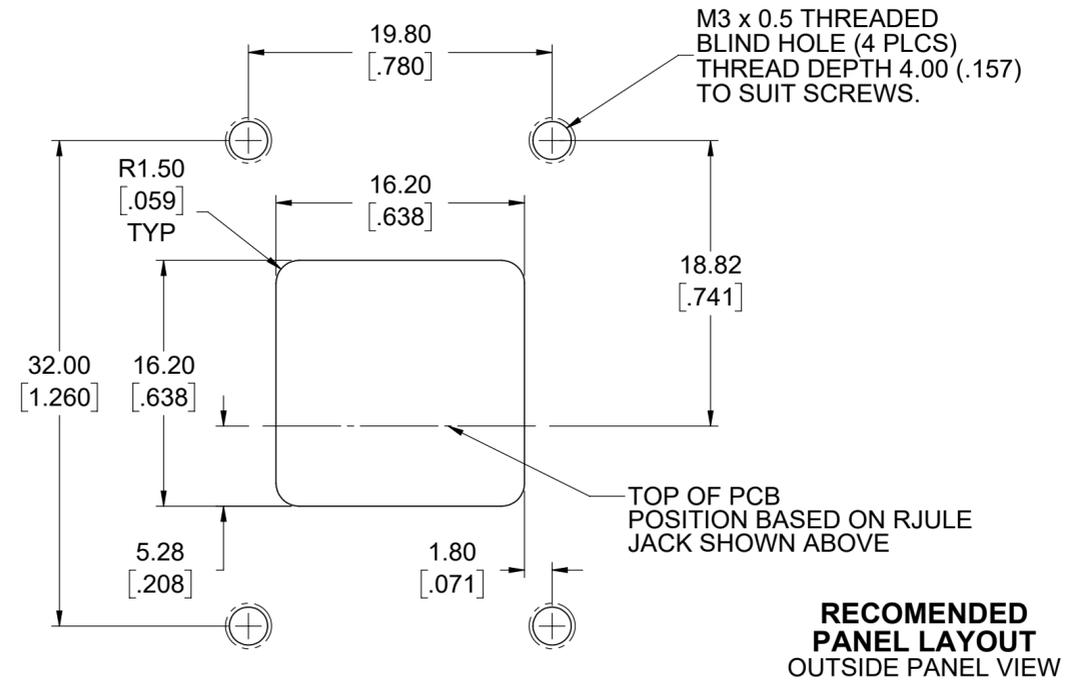


APPLICATION NOTE:

IF A CAST OR MOULDED PANEL IS NOT DESIRED TO ACHIEVE A BLIND HOLE SUITABLE FOR THE 6mm THREAD LENGTH, BLIND SEALED PEM NUTS OR MOUNTING SCREWS WITH A BUILT IN O-RING UNDER THE SEALING HEAD CAN ALSO BE USED TO ACHIEVE A PROPER MOUNTING HOLE SEAL.

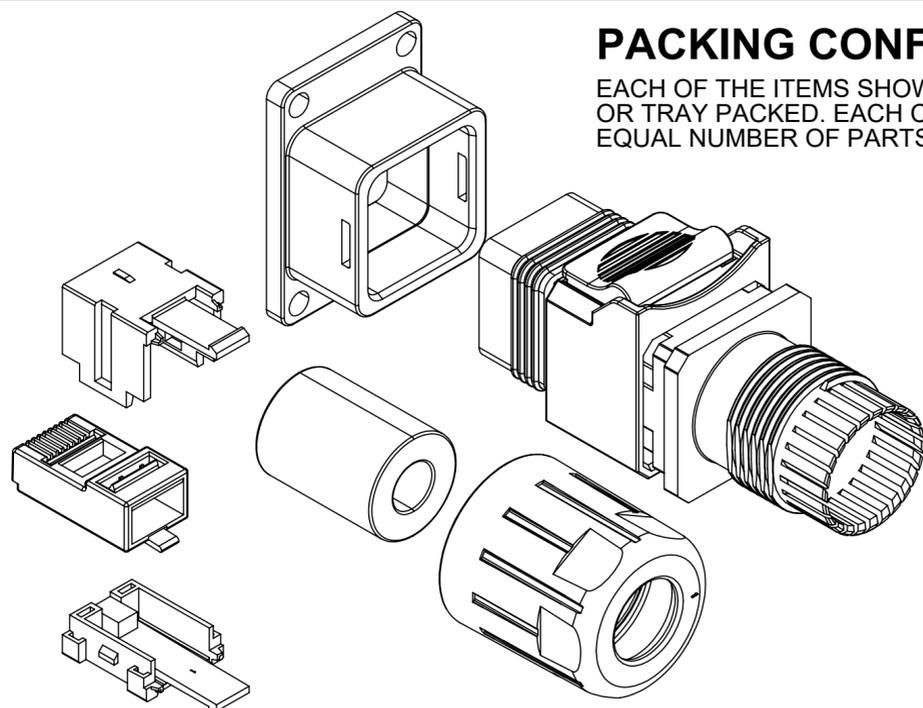


APPLICATION VIEWS



PACKING CONFIGURATION: NDH-R6AX

EACH OF THE ITEMS SHOWN ARE SUPPLIED BULK OR TRAY PACKED. EACH CARTON TO PROVIDE AN EQUAL NUMBER OF PARTS.



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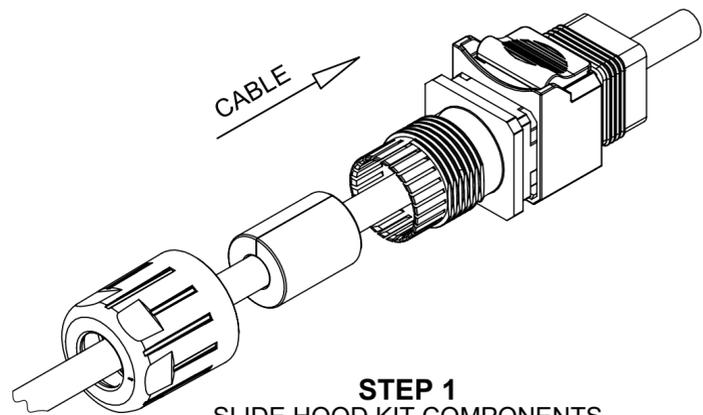
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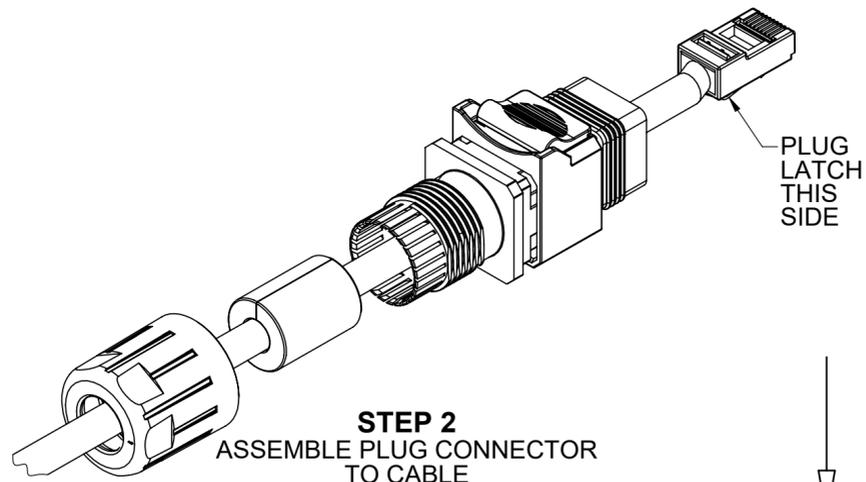
DWG. NO.	P-NDH-R6AX	REV	B
CODE ID NO.	03554	DWG SIZE:	C
SCALE:	1:1	SHEET	5 OF 6

FIELD ASSEMBLY PROCEDURE

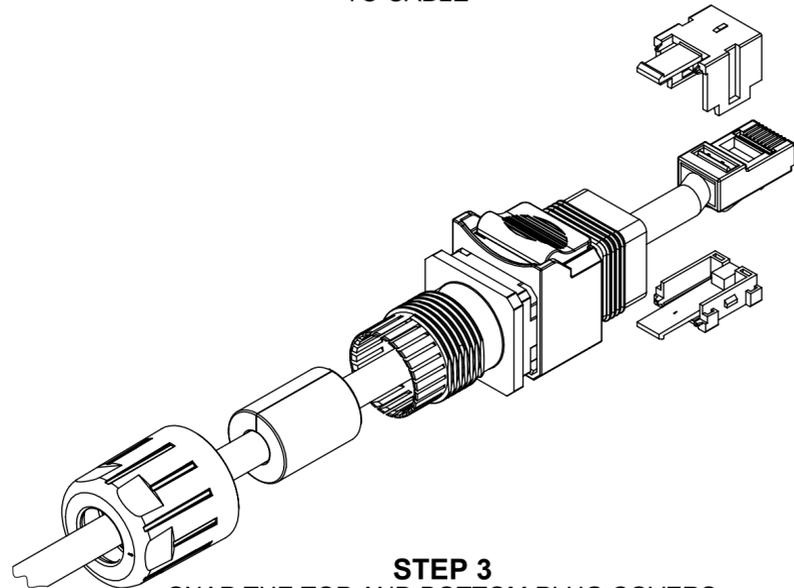
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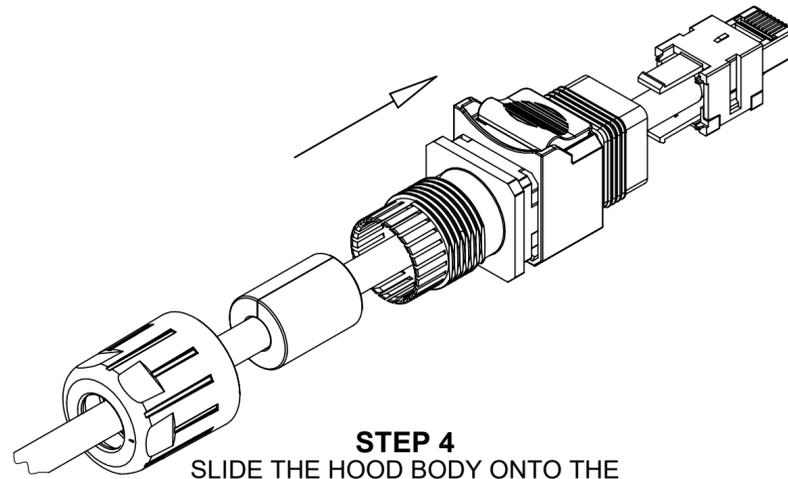
STEP 1
SLIDE HOOD KIT COMPONENTS (EXCLUDING TOP AND BOTTOM PLUG COVERS) ONTO CABLE PRIOR TO PLUG INSTALLATION



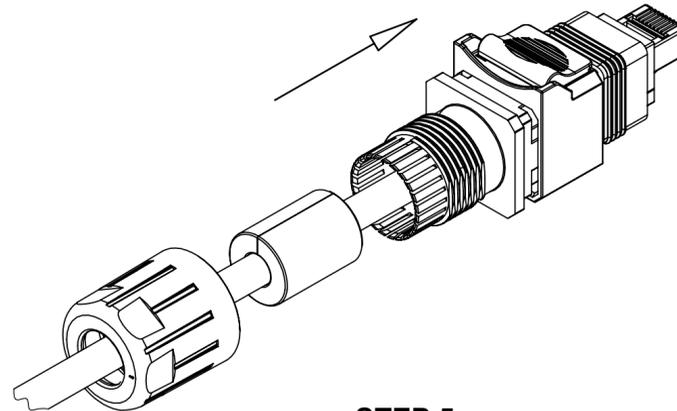
STEP 2
ASSEMBLE PLUG CONNECTOR TO CABLE



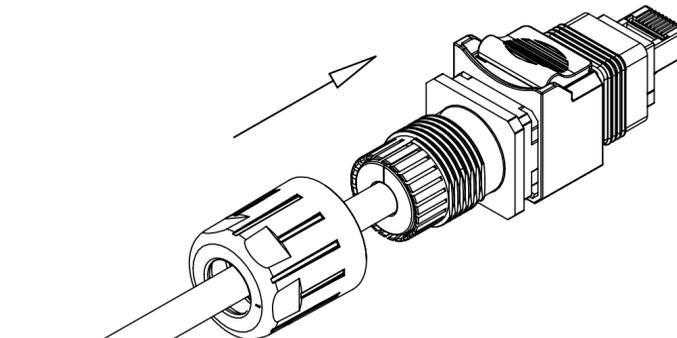
STEP 3
SNAP THE TOP AND BOTTOM PLUG COVERS ONTO THE PLUG CONNECTOR



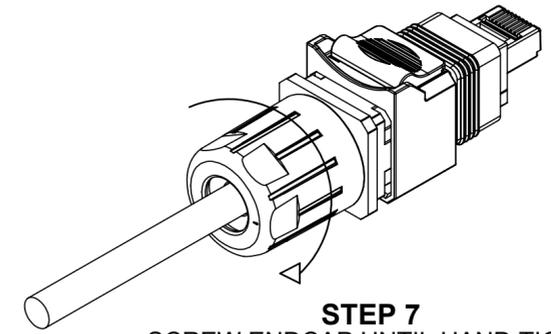
STEP 4
SLIDE THE HOOD BODY ONTO THE PLUG COVER ASSEMBLY UNTIL THE TOP AND BOTTOM LATCHES SNAP INTO PLACE. CONFIRM THAT THE PLUG LATCH IS AT THE BOTTOM AND THE HOOD LATCH IS AT THE TOP.



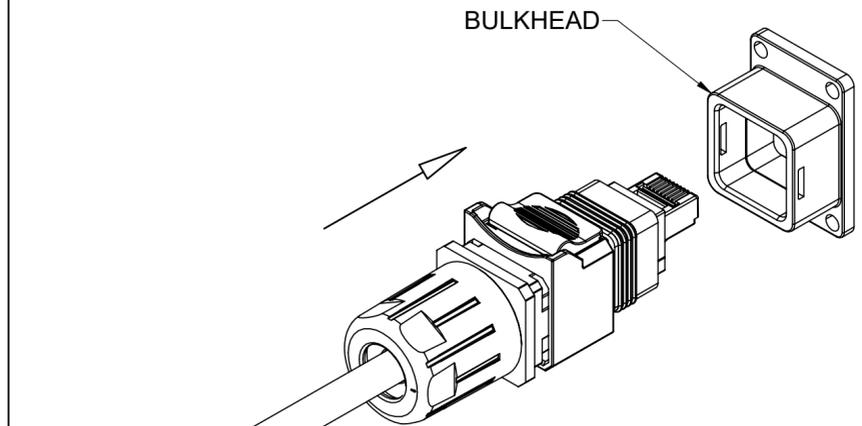
STEP 5
SLIDE THE RUBBER GROMMET ALONG THE CABLE INTO THE HOOD BODY UNTIL INSTALLED TO FULL DEPTH



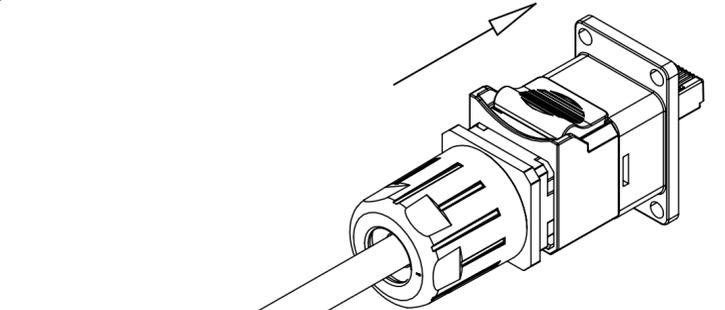
STEP 6
SLIDE THE END CAP ONTO THE HOOD BODY



STEP 7
SCREW ENDCAP UNTIL HAND TIGHT



STEP 8
INSERT RJ HOOD ASSEMBLY INTO BULKHEAD



STEP 9
PUSH THE HOOD LOCK FORWARD UNTIL HOOD ASSEMBLY SNAPS INTO POSITION. TO UN-MATE, PULL THE HOOD LOCK BACKWARD BEFORE PULLING ON THE HOOD / PLUG

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