

Connections Guide

for Core2 and Prosthetic Devices

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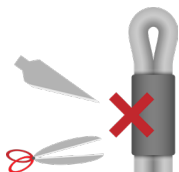
sales@i-biomed.com

+1 (443) 451-7175

PLEASE READ AND FOLLOW THIS GUIDE COMPLETELY.

FAILURE TO DO SO MAY RESULT IN DAMAGE TO COMPONENTS AND VOIDING OF WARRANTY.

IMPORTANT WARNINGS:



Do not free cables that are heatshrunk together, unless this guide explicitly instructs you to do so.

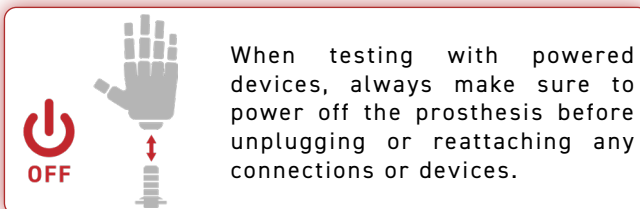


This guide was assembled based on your specified configuration upon ordering.

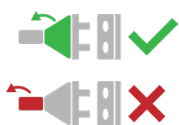
If your configuration has changed or appears different in any way, do not proceed with connections and contact IBT immediately.



Some depictions are not to scale or lengths are reduced to fit on the page. However, orientation and color are accurate.



When testing with powered devices, always make sure to power off the prosthesis before unplugging or reattaching any connections or devices.



When unplugging a cable, pull from the connector head instead of on the wiring to avoid damaging the entire cable. Use a tool to do so if necessary.

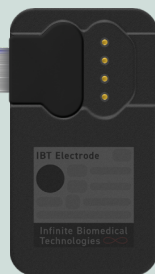
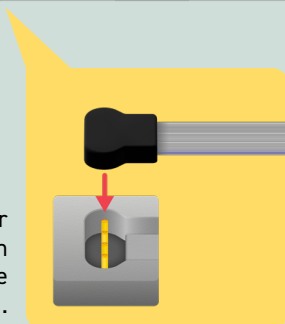
Thank you for following all instructions!

Connections Guide: Input Side



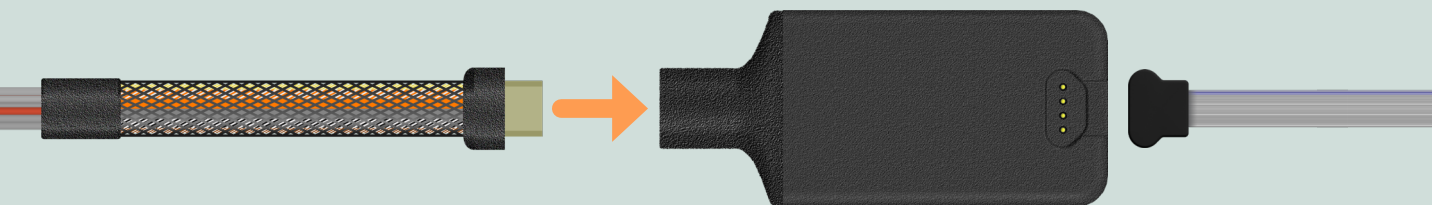
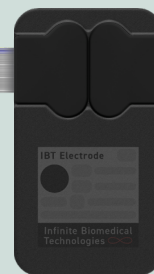
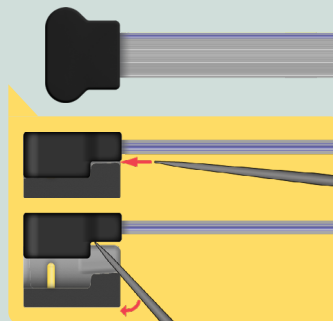
Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.

Any end of the Electrode Cables will mate.



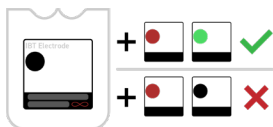
To unplug an Electrode Cable, use the provided multitool to pry up on the connector. Do not pull on the cable itself.

Do not use a metallic or electrically conductive tool.

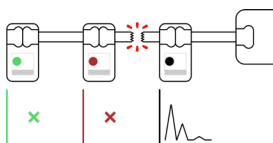


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.



Ensure all electrodes connected are labeled with uniquely colored dots. Otherwise, the system will malfunction.



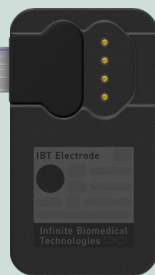
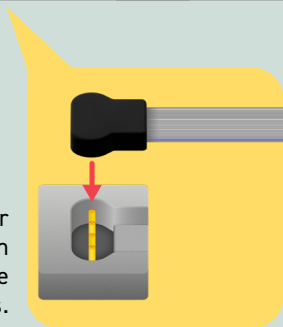
A disconnect in the chain of electrode connections may cause multiple electrodes to not be detected by the system. Ensure all connections are firmly made.

Connections Guide: Input Side



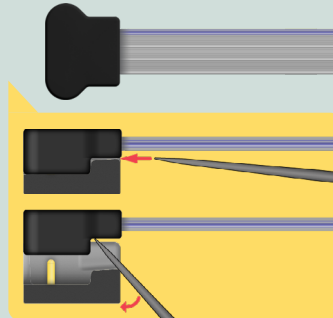
Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.

Any end of the Electrode Cables will mate.

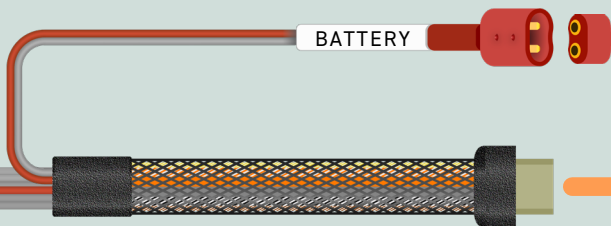


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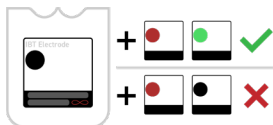
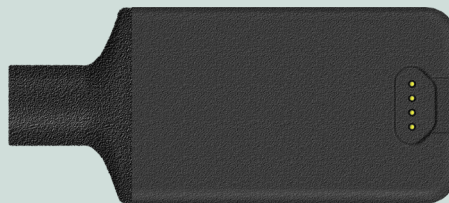


Connect the battery to the Output Cable.

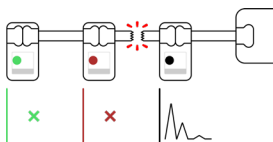


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.

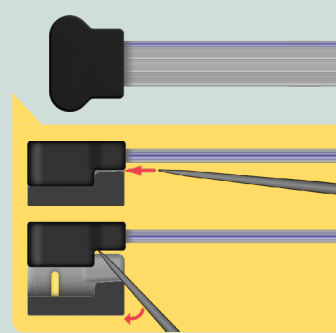


Ensure all electrodes connected are labeled with uniquely colored dots. Otherwise, the system will malfunction.



A disconnect in the chain of electrode connections may cause multiple electrodes to not be detected by the system. Ensure all connections are firmly made.

Connections Guide: Input Side



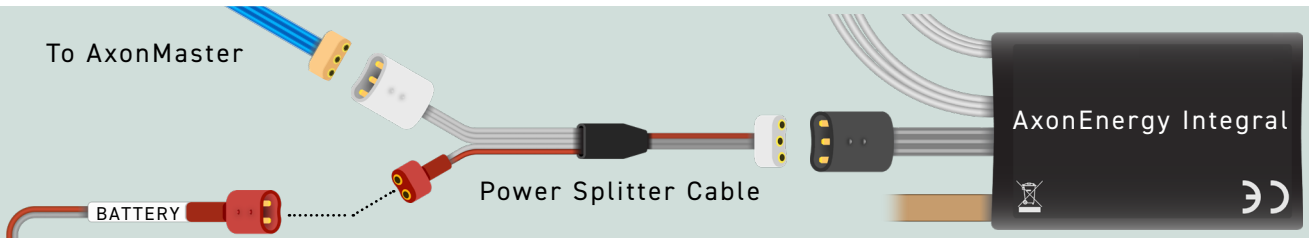
Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.

Any end of the Electrode Cables will mate.

To unplug an Electrode Cable, use the provided multitool to pry up on the connector. Do not pull on the cable itself.

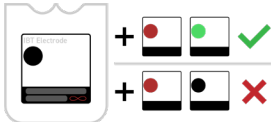
Do not use a metallic or electrically conductive tool.

To AxonMaster

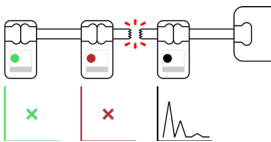


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.

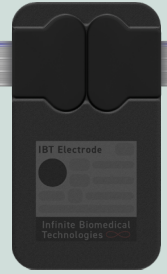
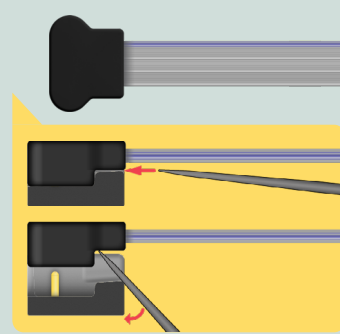


Ensure all electrodes connected are labeled with uniquely colored dots. Otherwise, the system will malfunction.



A disconnect in the chain of electrode connections may cause multiple electrodes to not be detected by the system. Ensure all connections are firmly made.

Connections Guide: Input Side

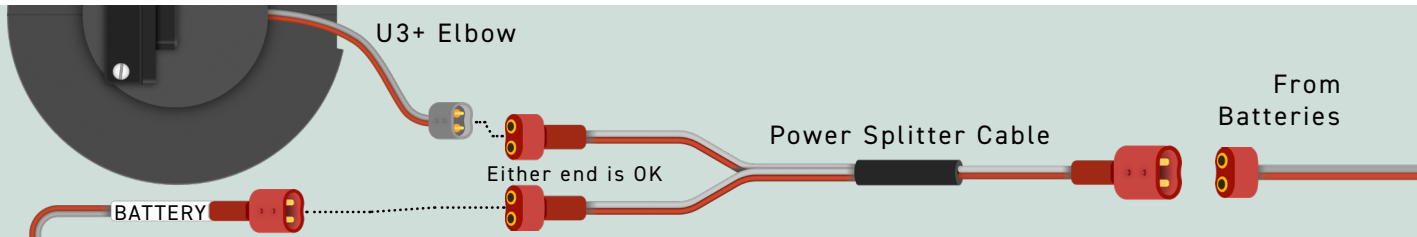


Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.

Any end of the Electrode Cables will mate.

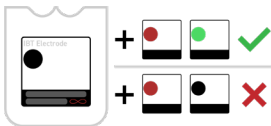
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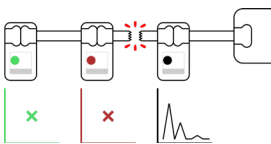


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.

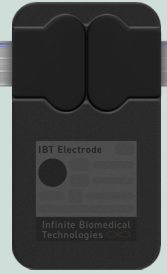
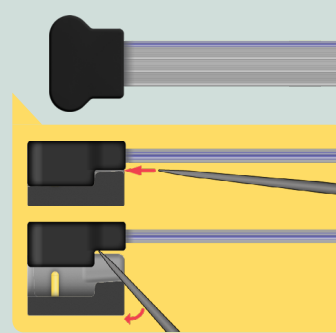


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Connections Guide: Input Side

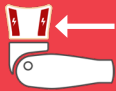


Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.

Any end of the Electrode Cables will mate.

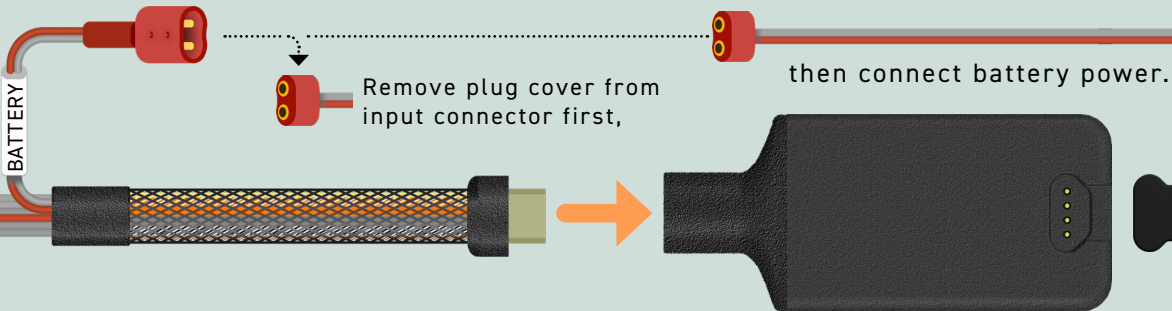
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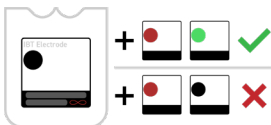
Follow this section below only if installing batteries humerally

If installing batteries in forearm, refer to the alternate Input Card

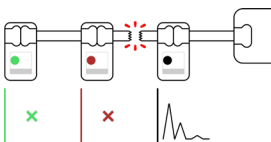


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.

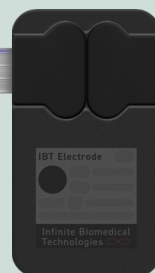
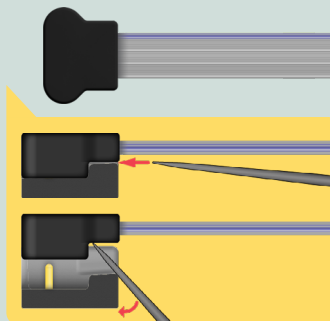
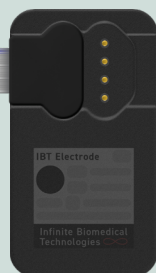


Ensure all electrodes connected are labeled with uniquely colored dots. Otherwise, the system will malfunction.

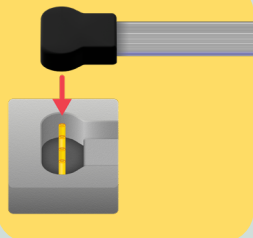


A disconnect in the chain of electrode connections may cause multiple electrodes to not be detected by the system. Ensure all connections are firmly made.

Connections Guide: Input Side



Connect electrodes together by aligning and pressing down the connector head of the Electrode Cables onto the pins.



To unplug an Electrode Cable, use the provided multitool to pry up on the connector. Do not pull on the cable itself.

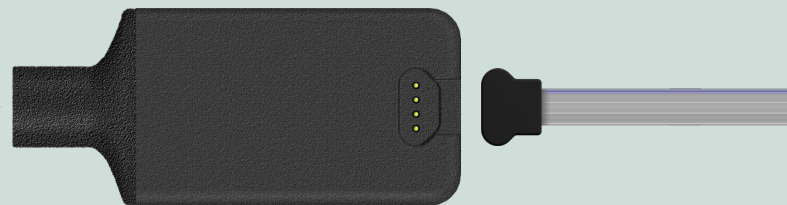
Any end of the Electrode Cables will mate.

Do not use a metallic or electrically conductive tool.



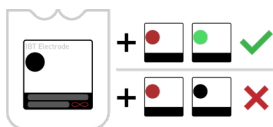
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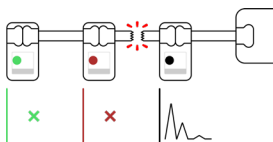


Connect Output Cable to Core2 Controller.

Connect the chain of electrodes to Core2 Controller.

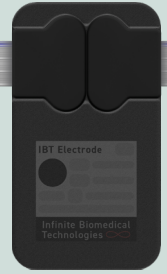
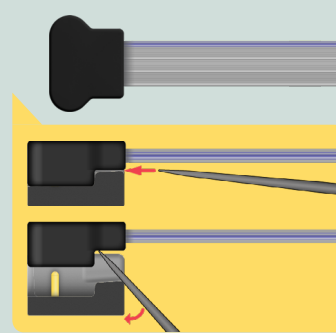


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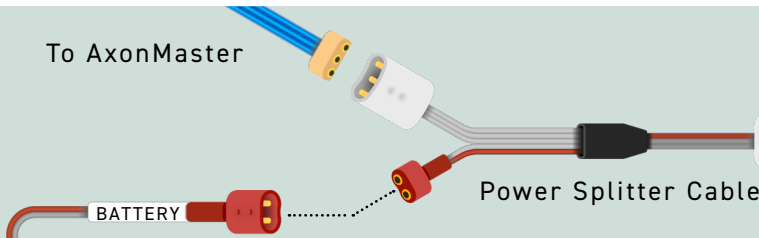
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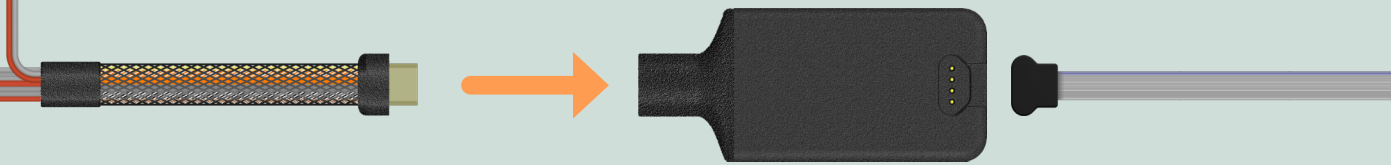
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To AxonMaster

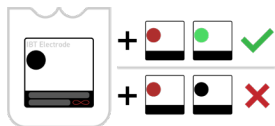


Top of Axon Elbow



Connect Output Cable to Core2 Controller.

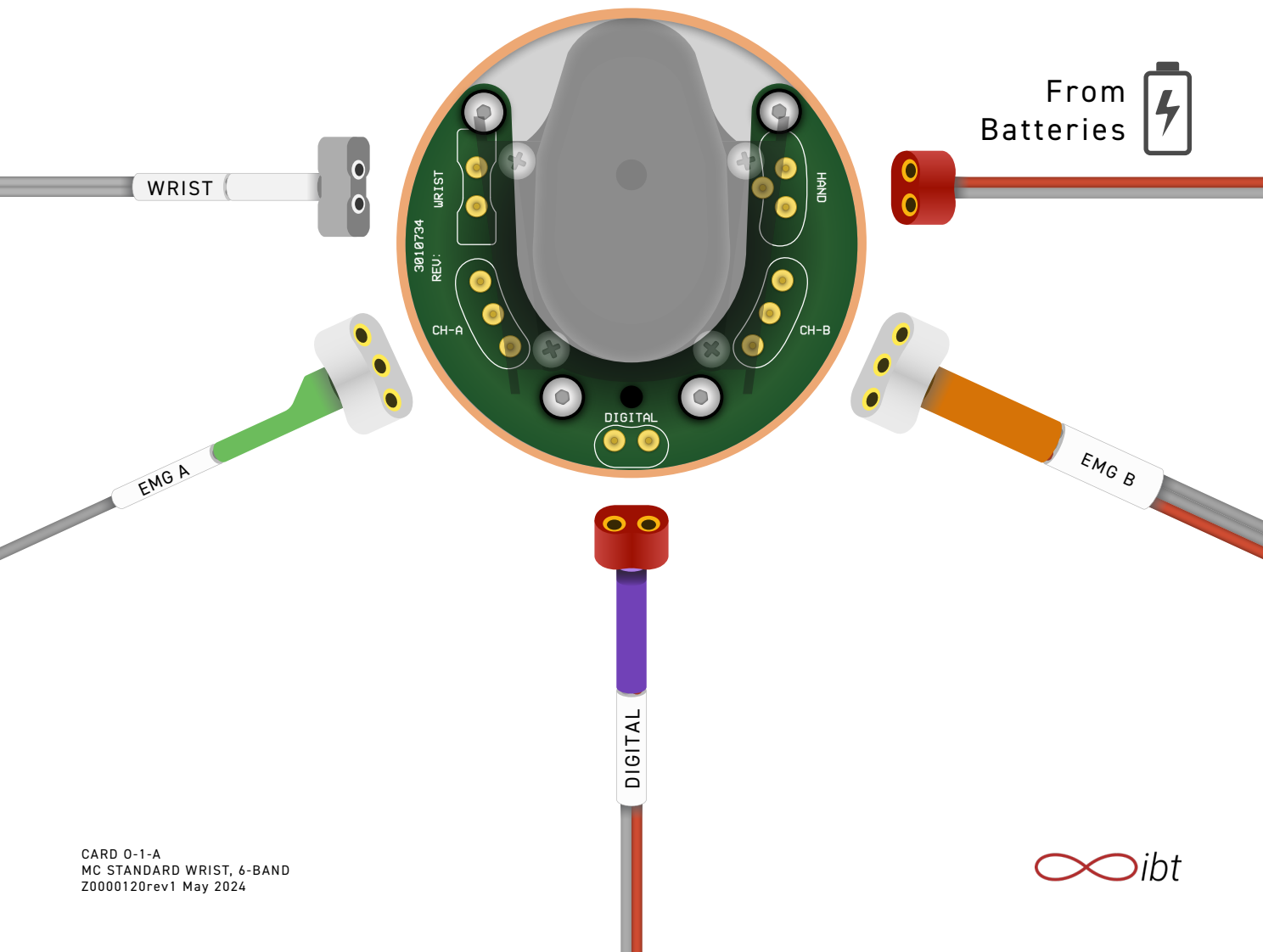
Connect the chain of electrodes to Core2 Controller.

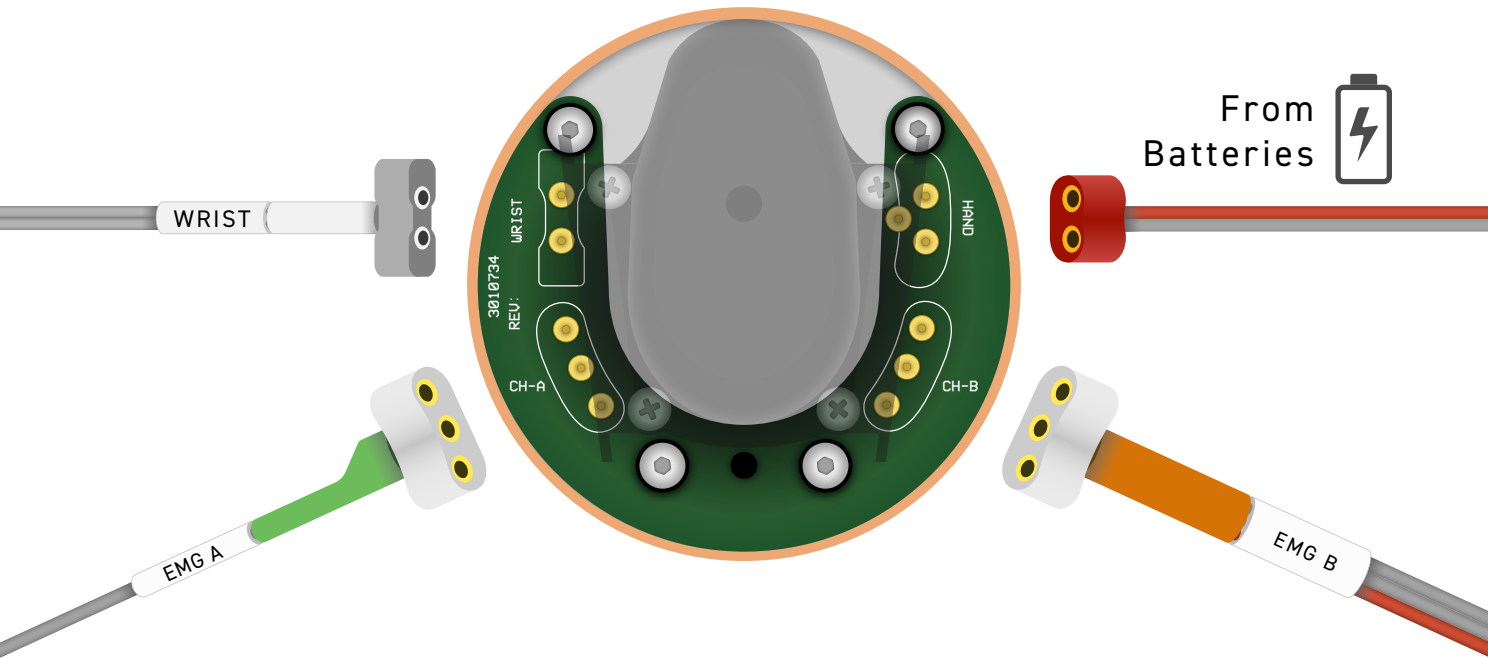


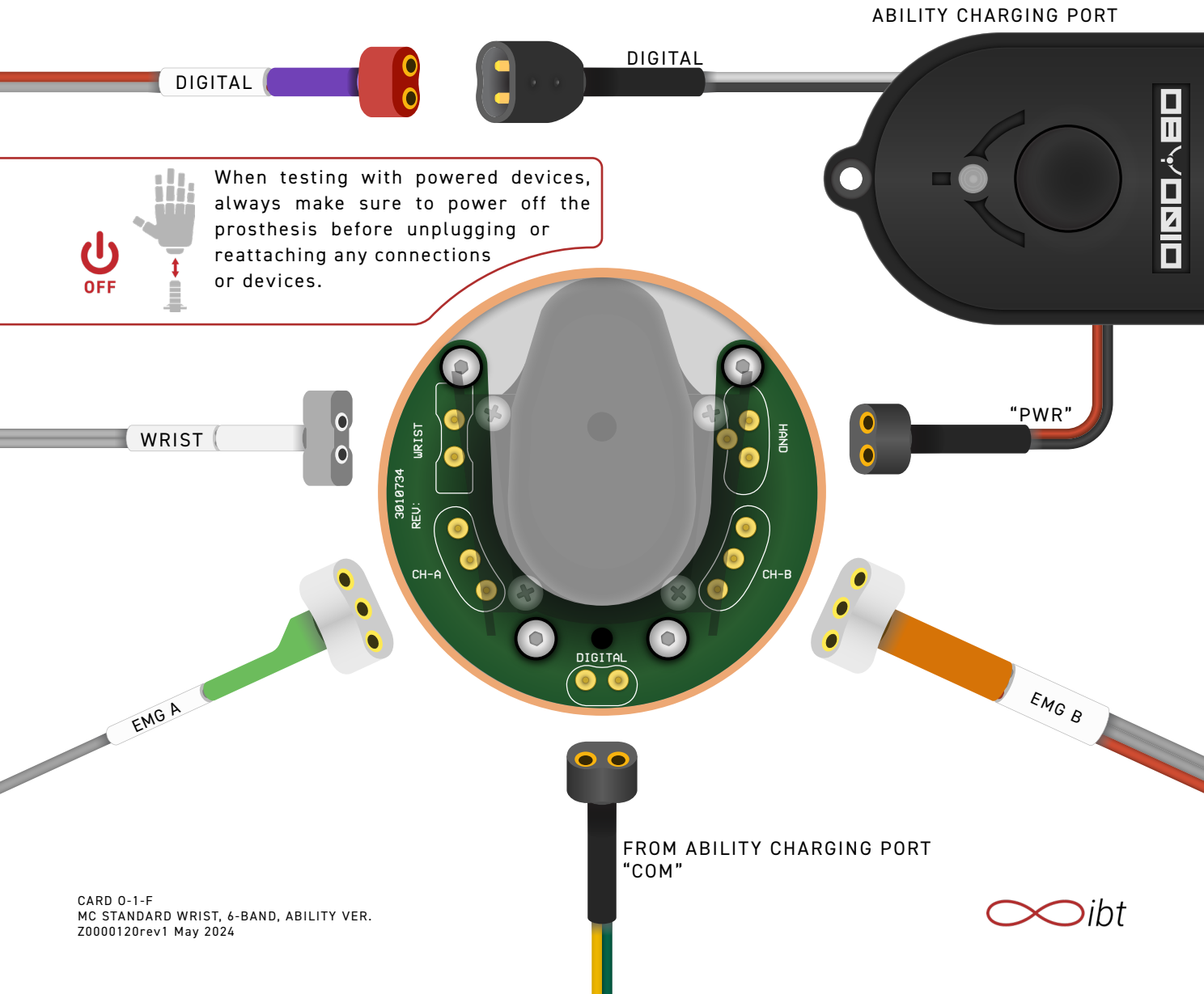
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ABILITY CHARGING PORT

DIGITAL

DIGITAL



When testing with powered devices, always make sure to power off the prosthesis before unplugging or reattaching any connections or devices.

WRIST

3010734
REV.

WRIST

HAND

CH-A

CH-B

DIGITAL

"PWR"

EMG A

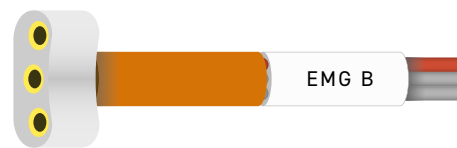
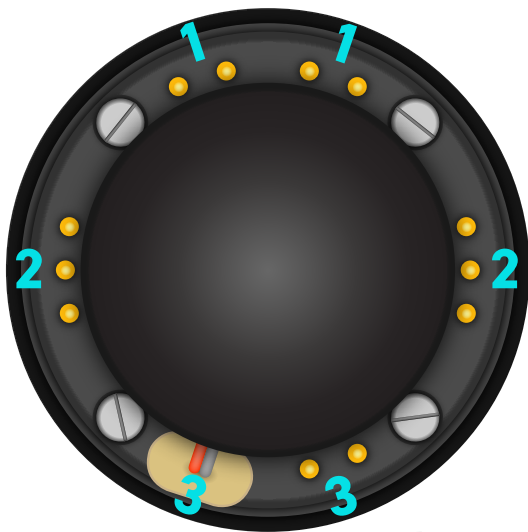
EMG B

FROM ABILITY CHARGING PORT
"COM"

From
Batteries



EMG A

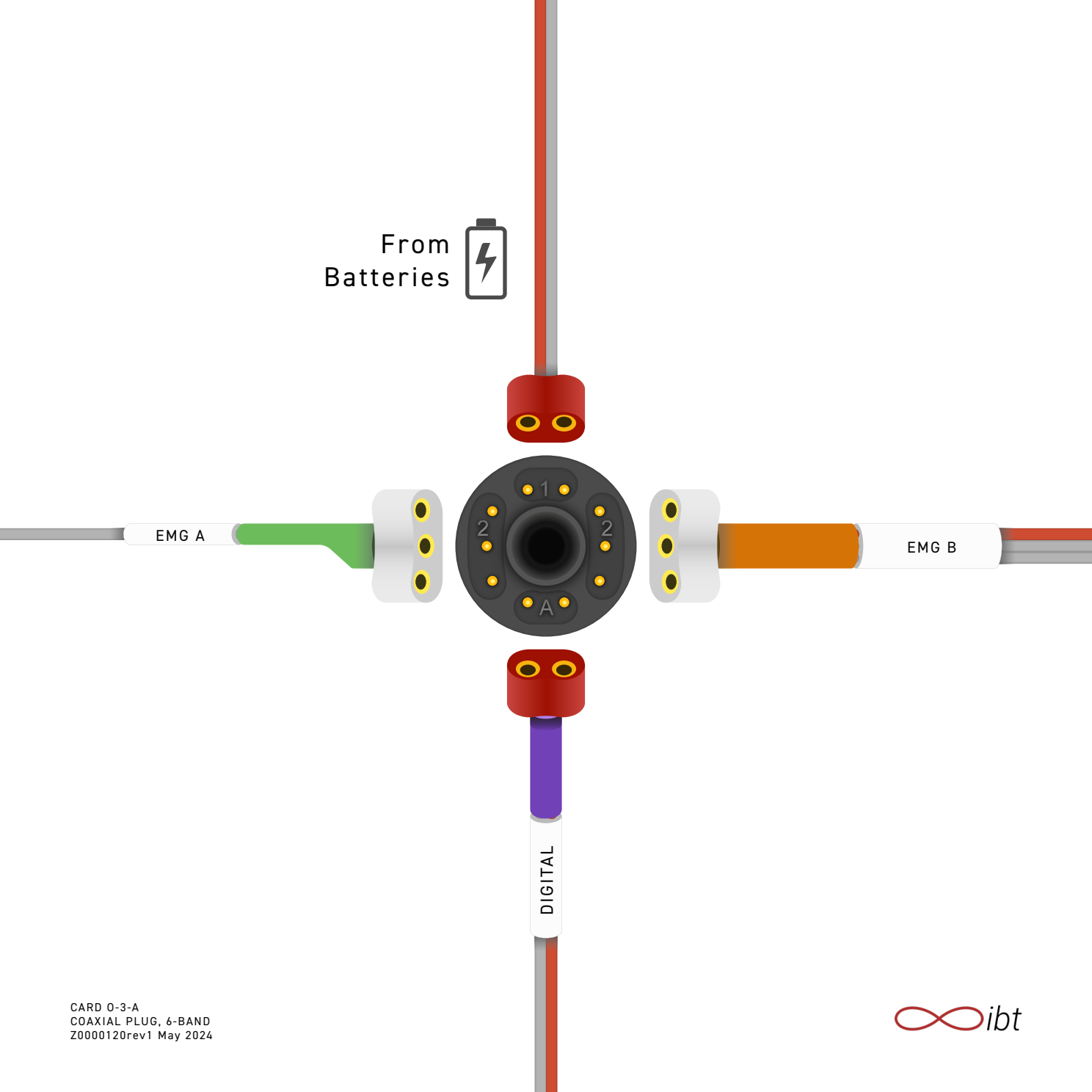


EMG B

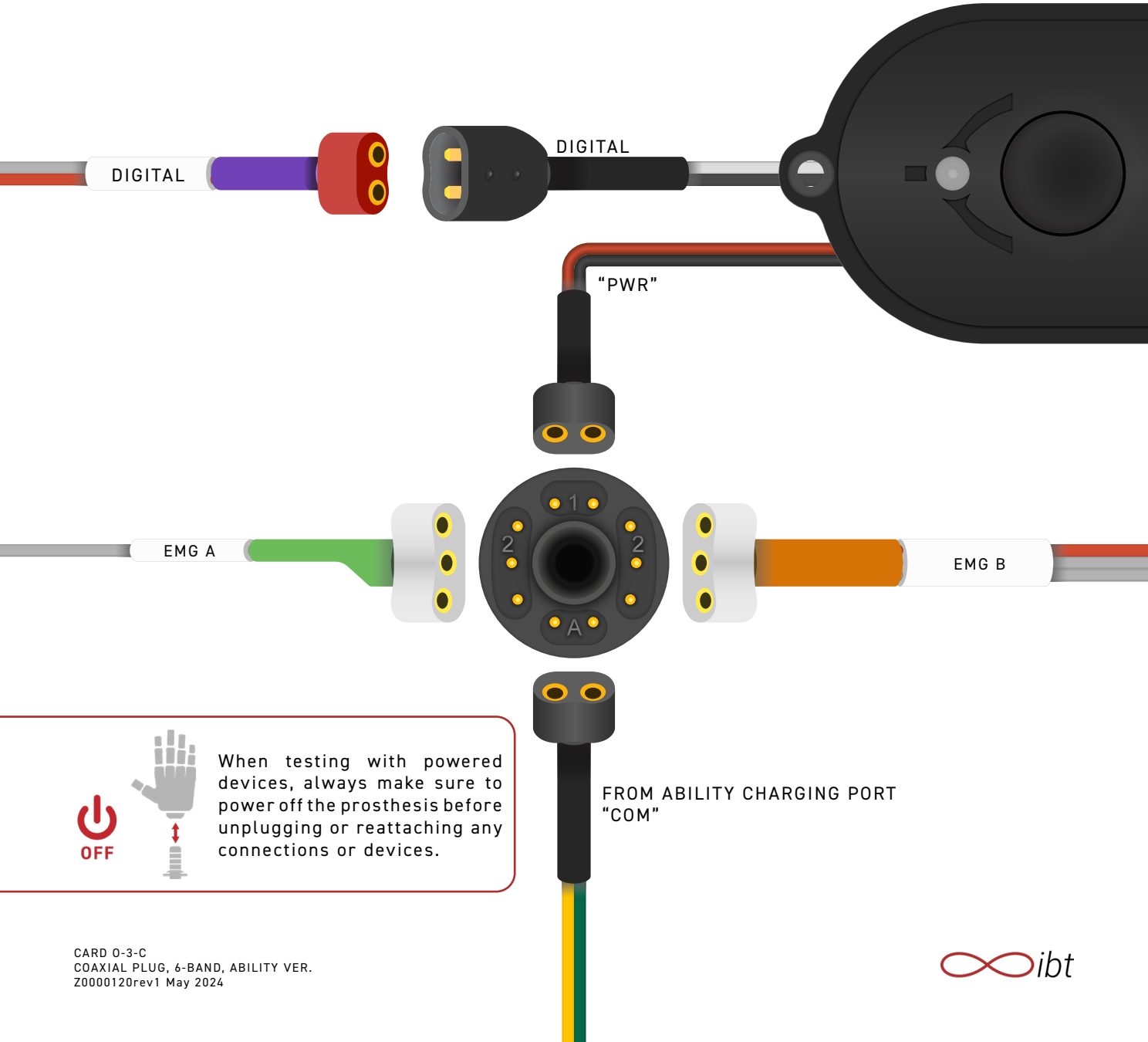


WRIST

From Batteries 



ABILITY CHARGING PORT



DIGITAL

DIGITAL

"PWR"

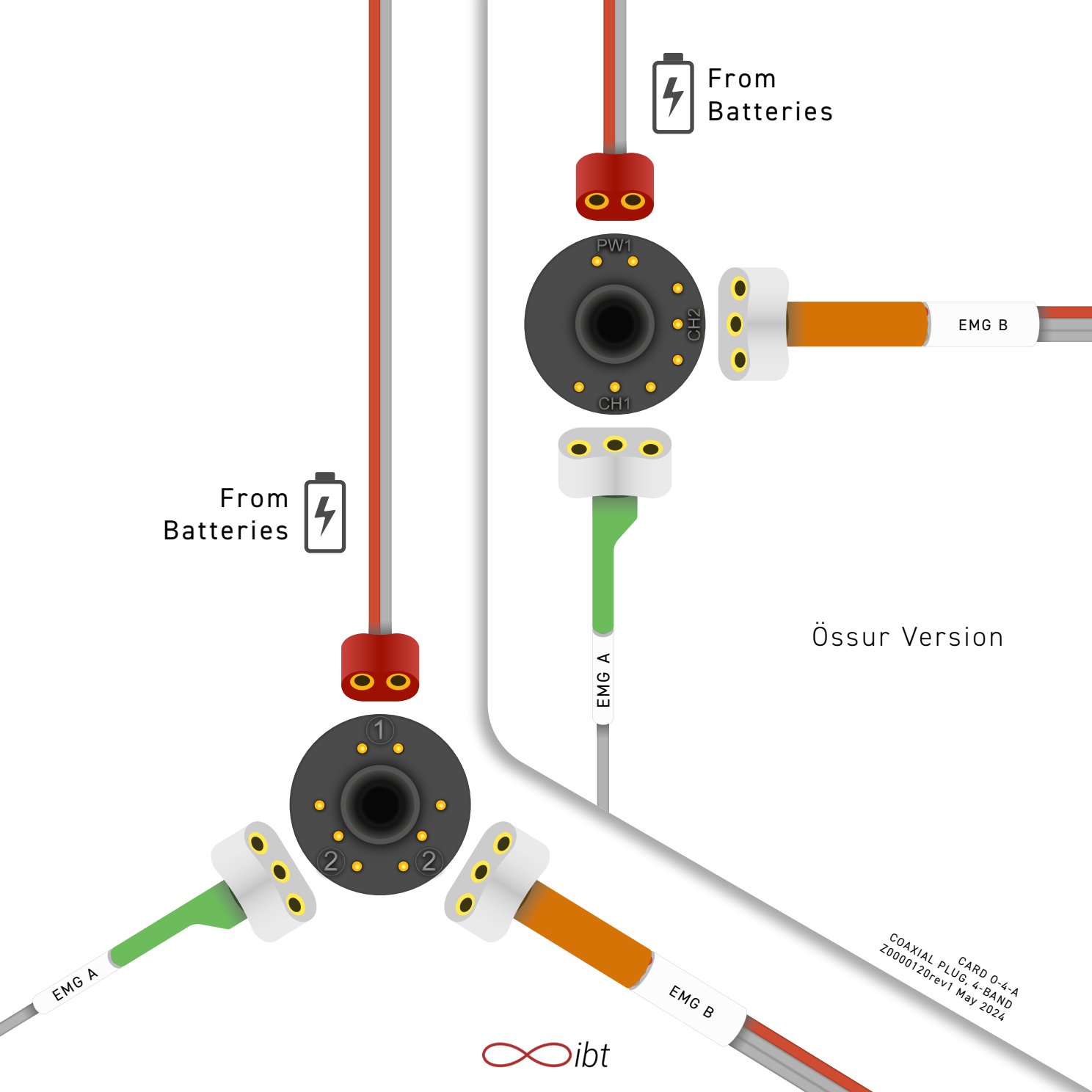
EMG A

EMG B


OFF

When testing with powered devices, always make sure to power off the prosthesis before unplugging or reattaching any connections or devices.

FROM ABILITY CHARGING PORT
"COM"



From Batteries



From Batteries

EMG A

EMG B

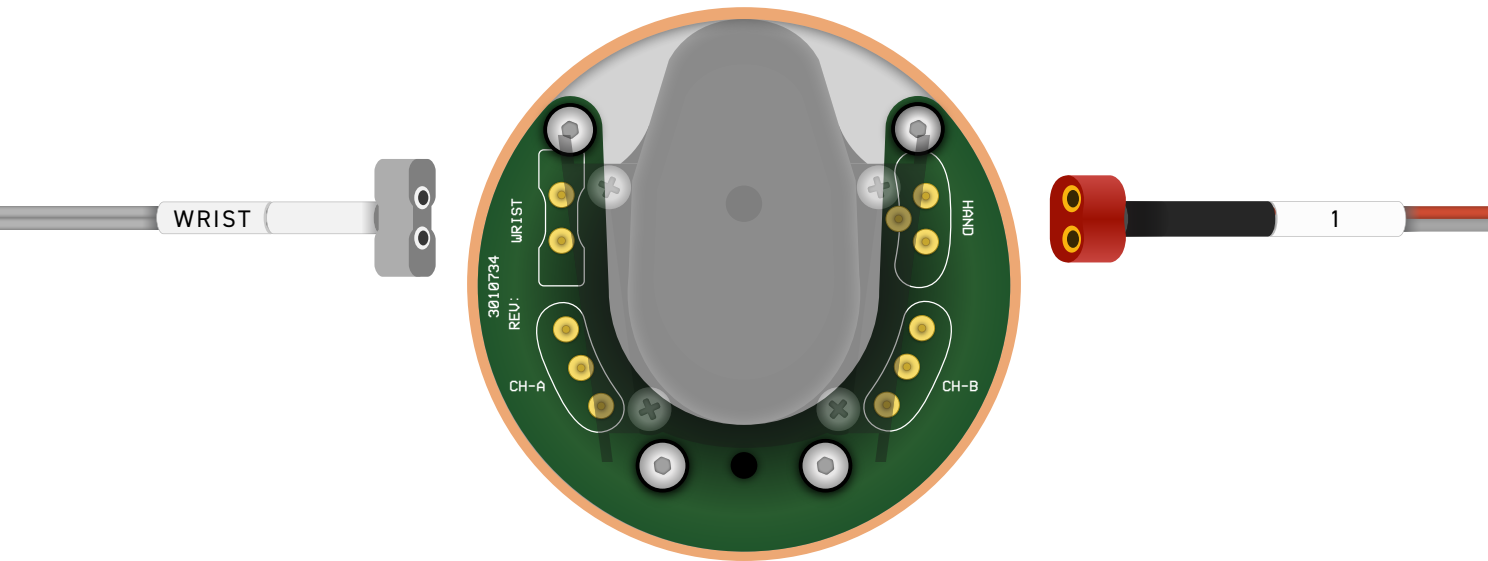
EMG A

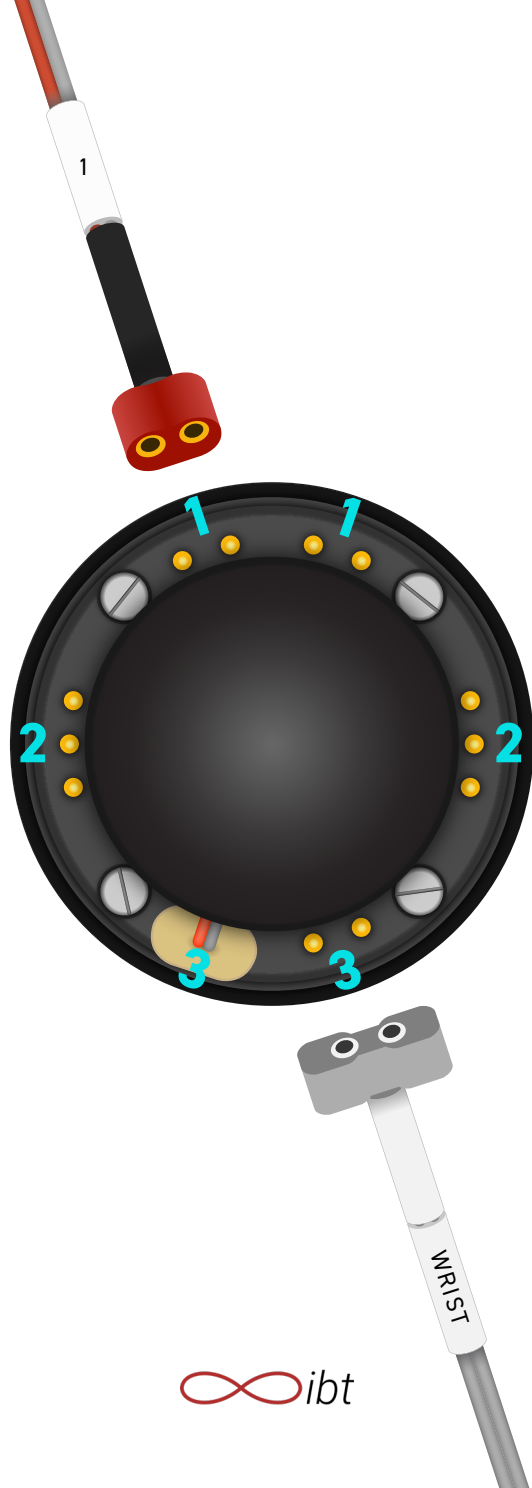
EMG B

Össur Version

CARD 0-4-A
COAXIAL PLUG, 4-BAND
Z0000120rev1 May 2024







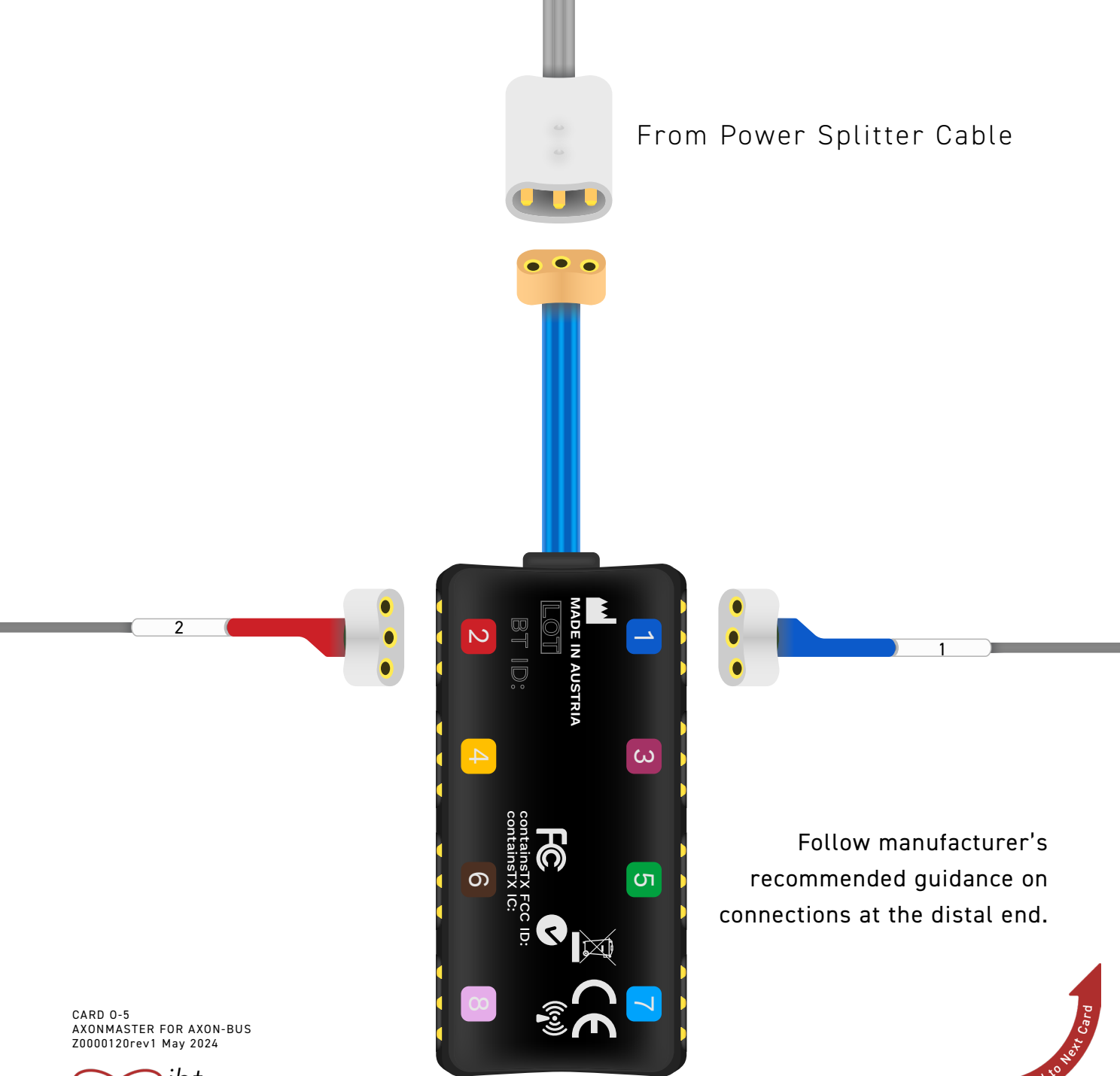
CARD 0-2-C
10S17, PWM DRIVE ONLY
Z0000120rev1 May 2024

 ibT



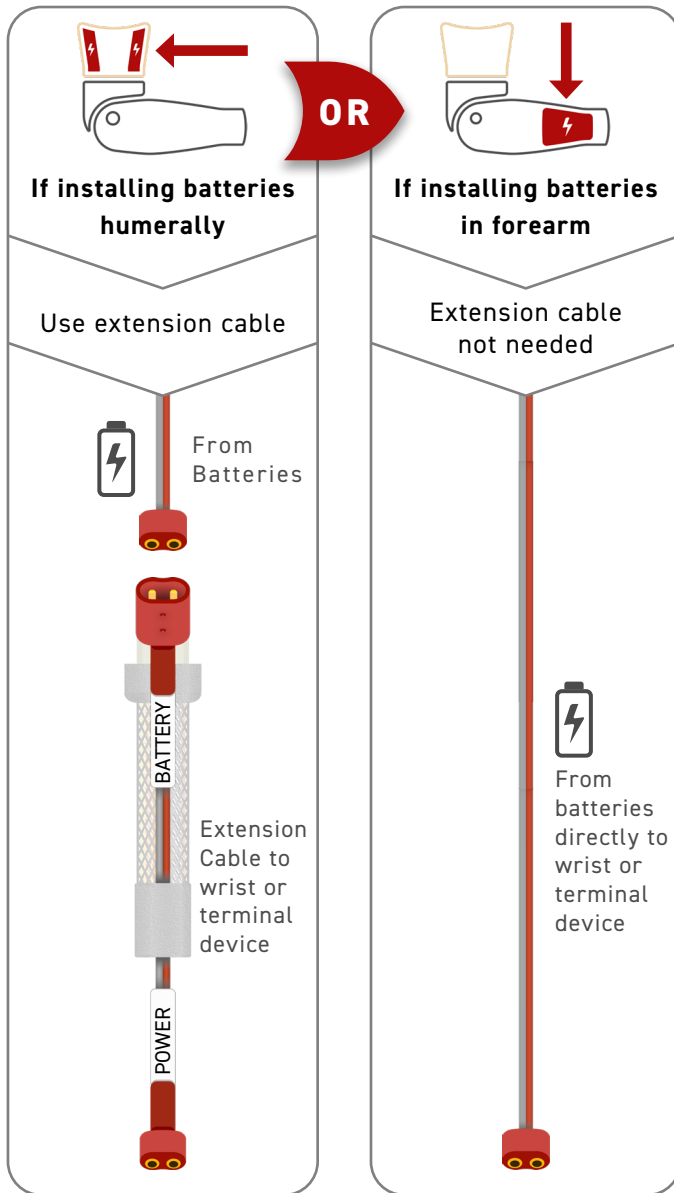
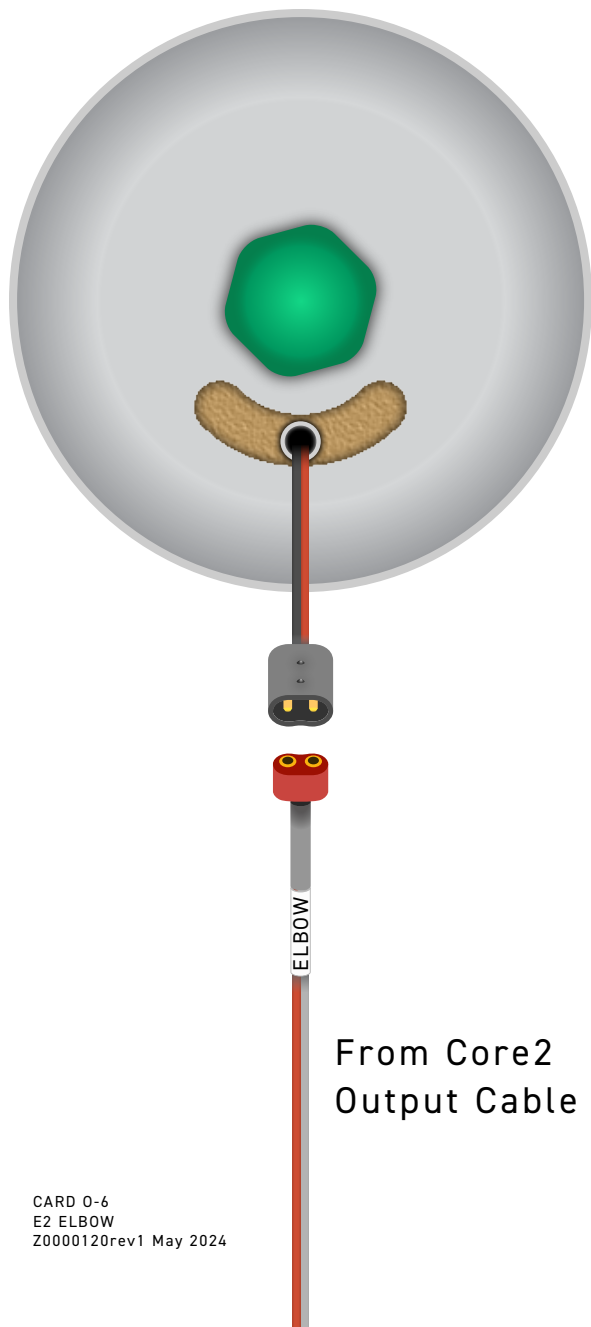
Össur Version

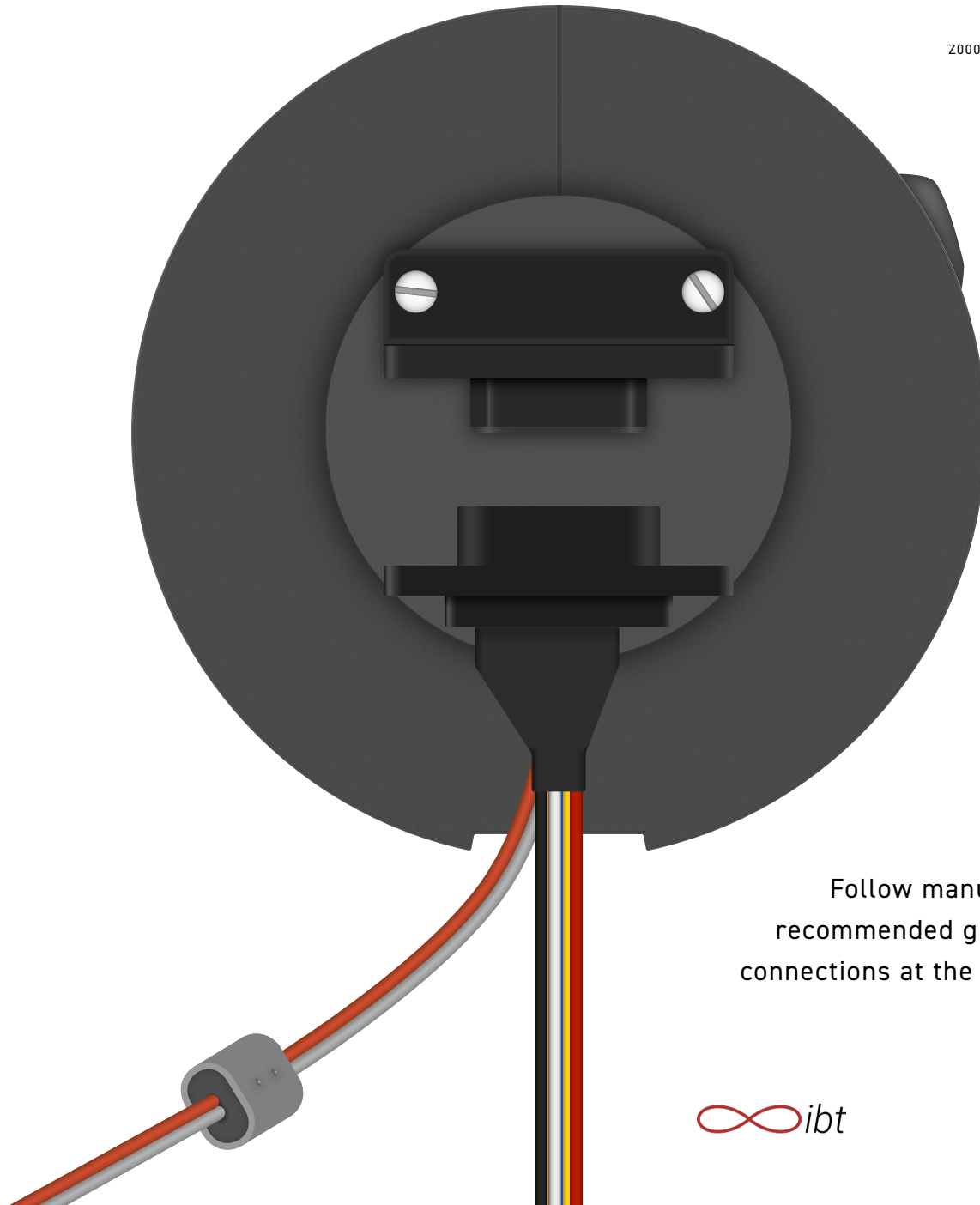
From Power Splitter Cable



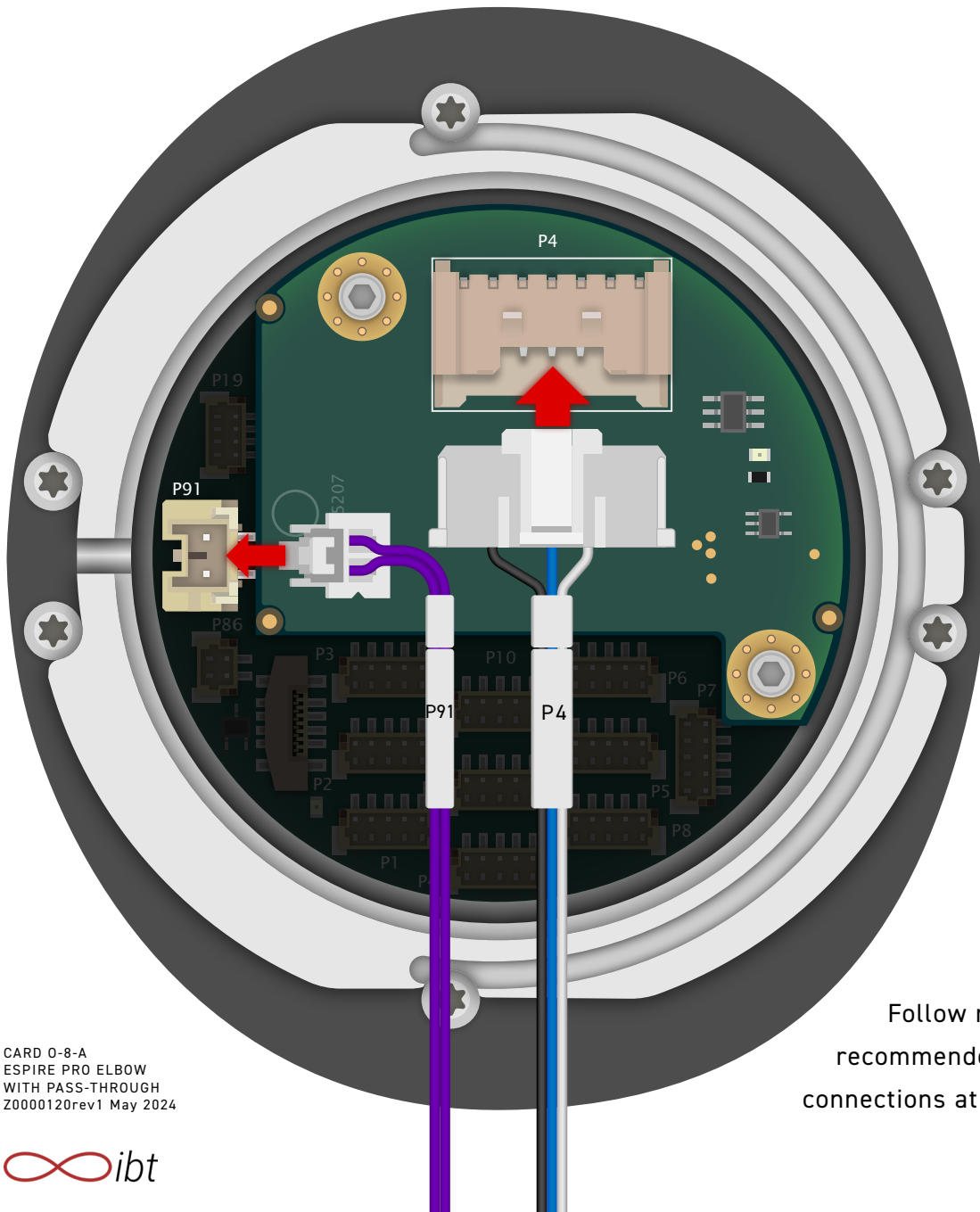
Follow manufacturer's
recommended guidance on
connections at the distal end.

Connecting battery to terminal device





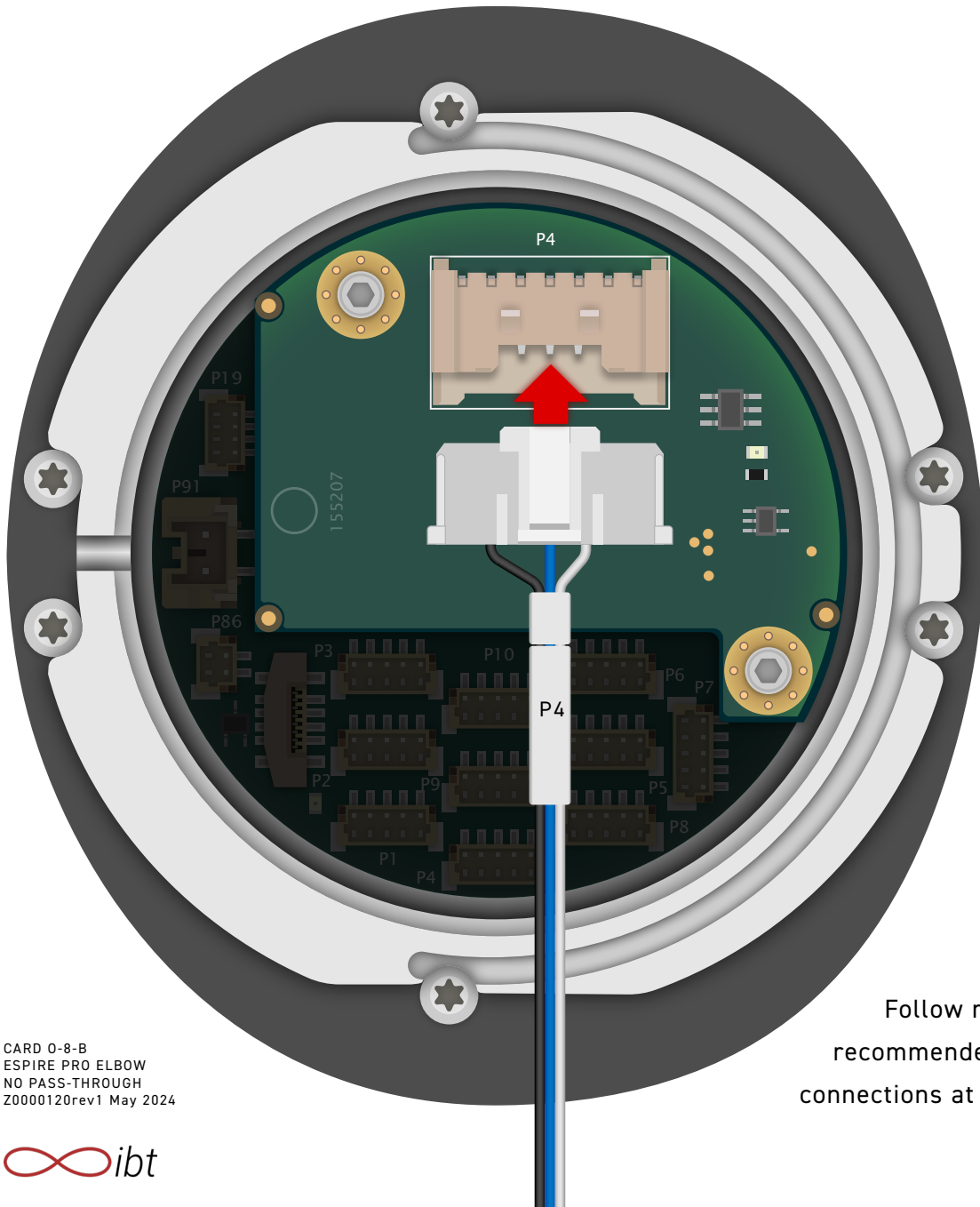
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recommended guidance on
connections at the distal end.



CARD 0-8-A
ESPIRE PRO ELBOW
WITH PASS-THROUGH
Z0000120rev1 May 2024



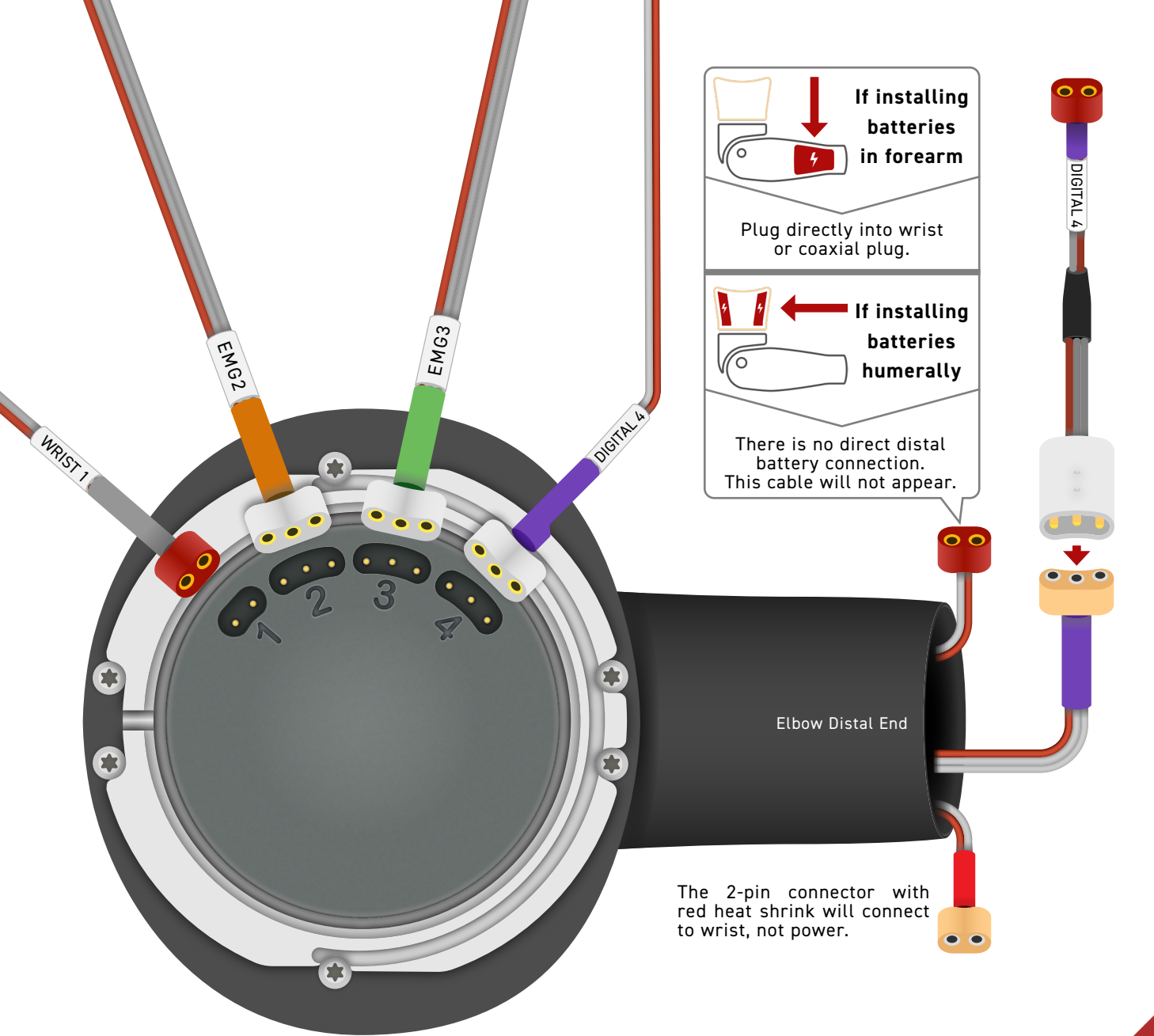
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Follow manufacturer's
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CARD 0-8-B
ESPIRE PRO ELBOW
NO PASS-THROUGH
Z0000120rev1 May 2024





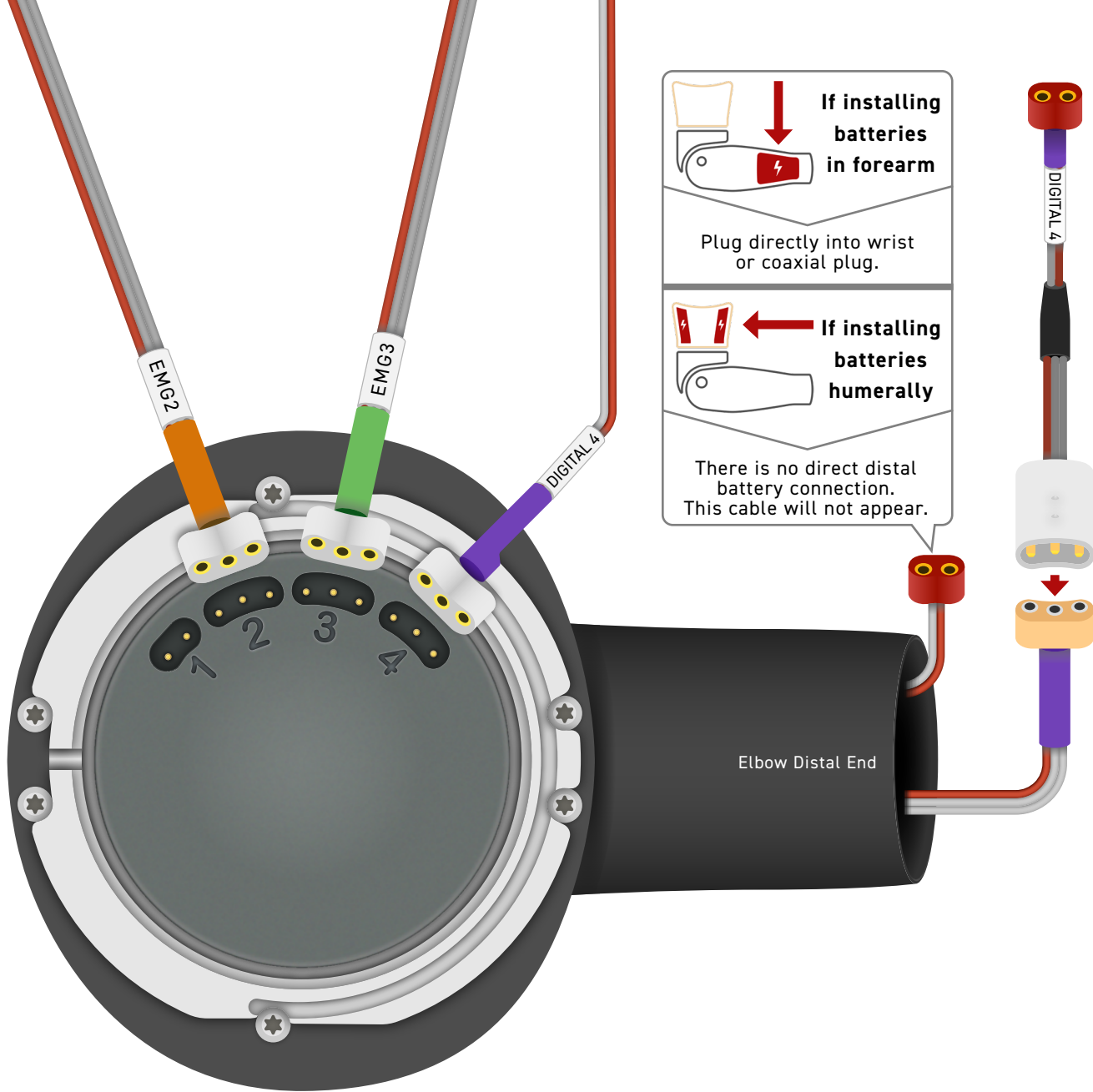
If installing batteries in forearm

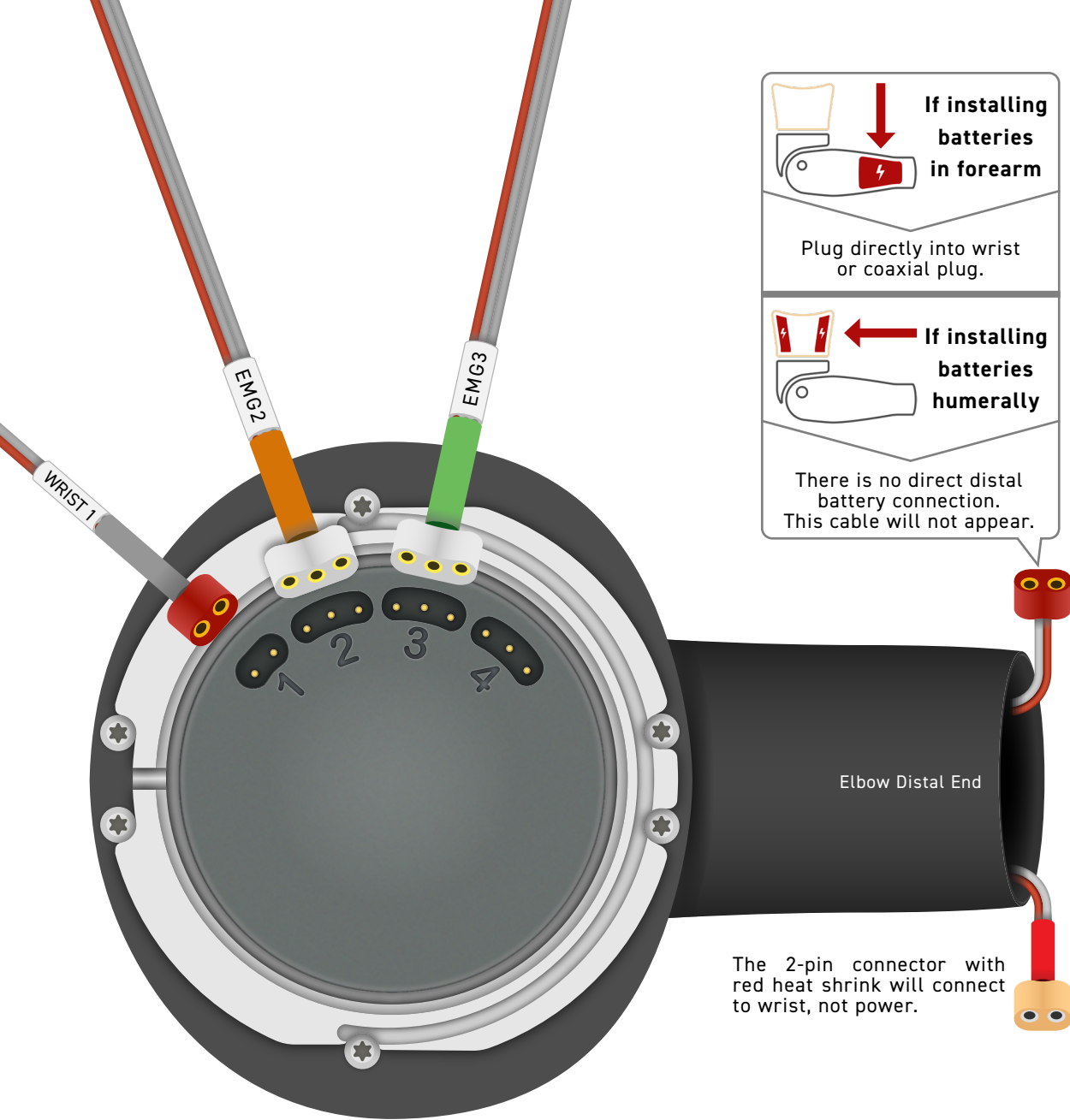
Plug directly into wrist or coaxial plug.

If installing batteries humerally

There is no direct distal battery connection. This cable will not appear.

The 2-pin connector with red heat shrink will connect to wrist, not power.





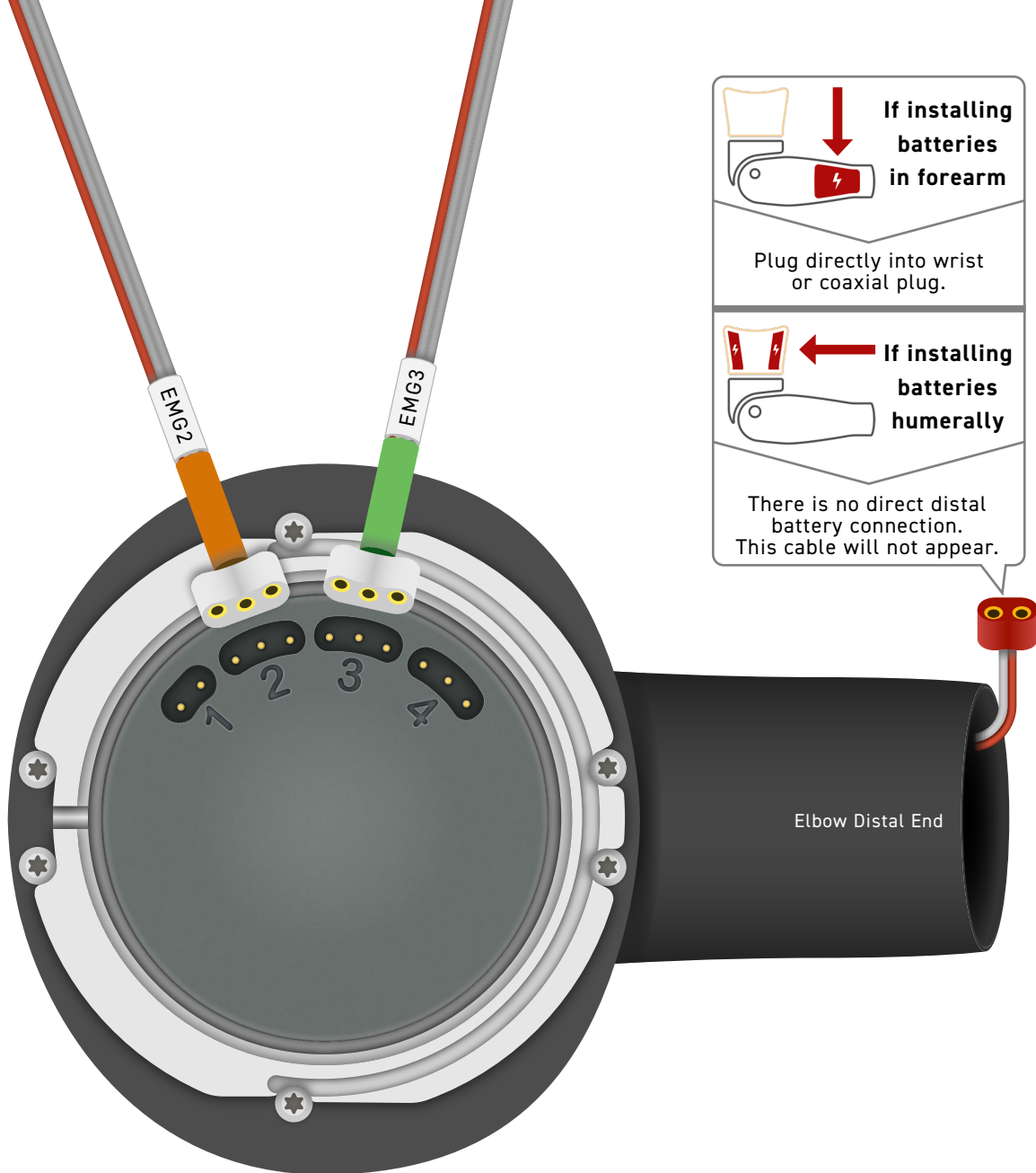
If installing batteries in forearm

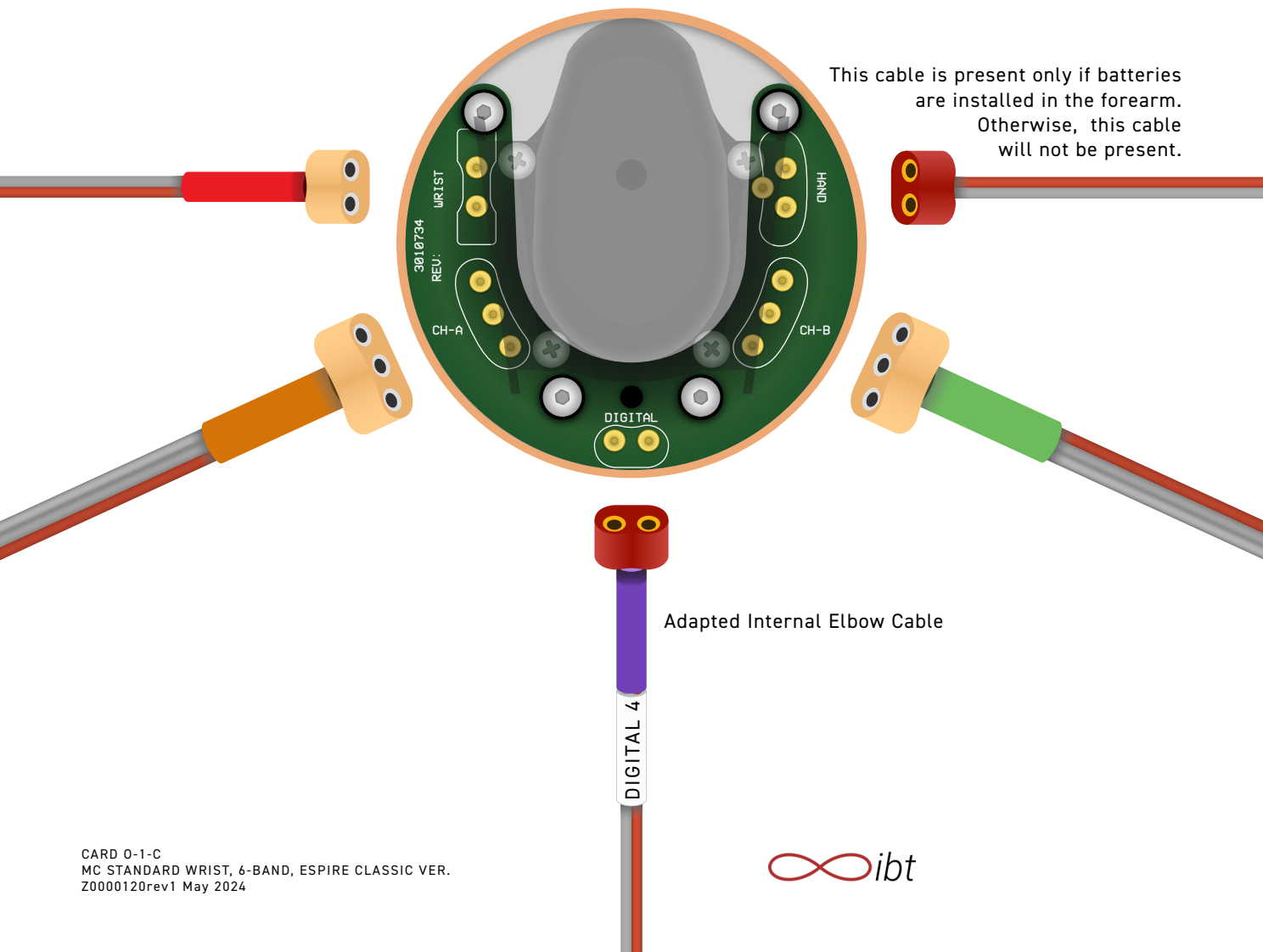
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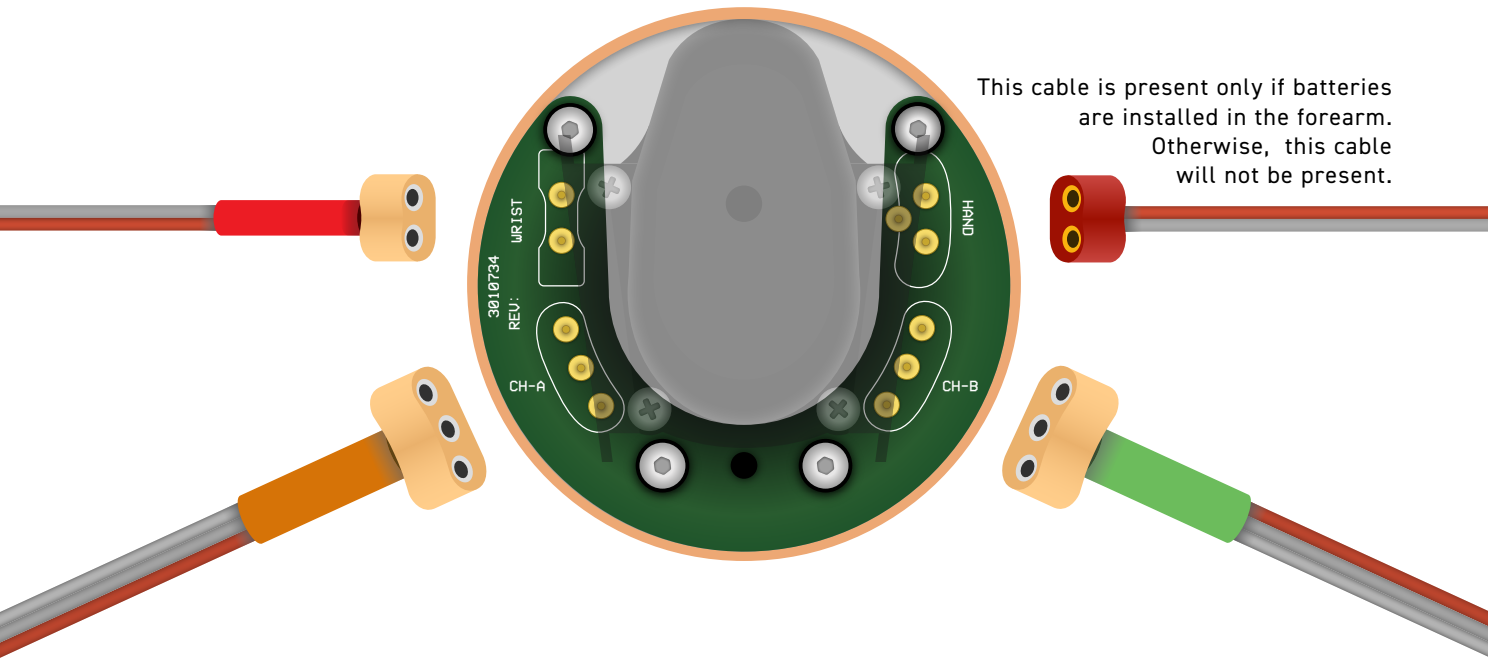
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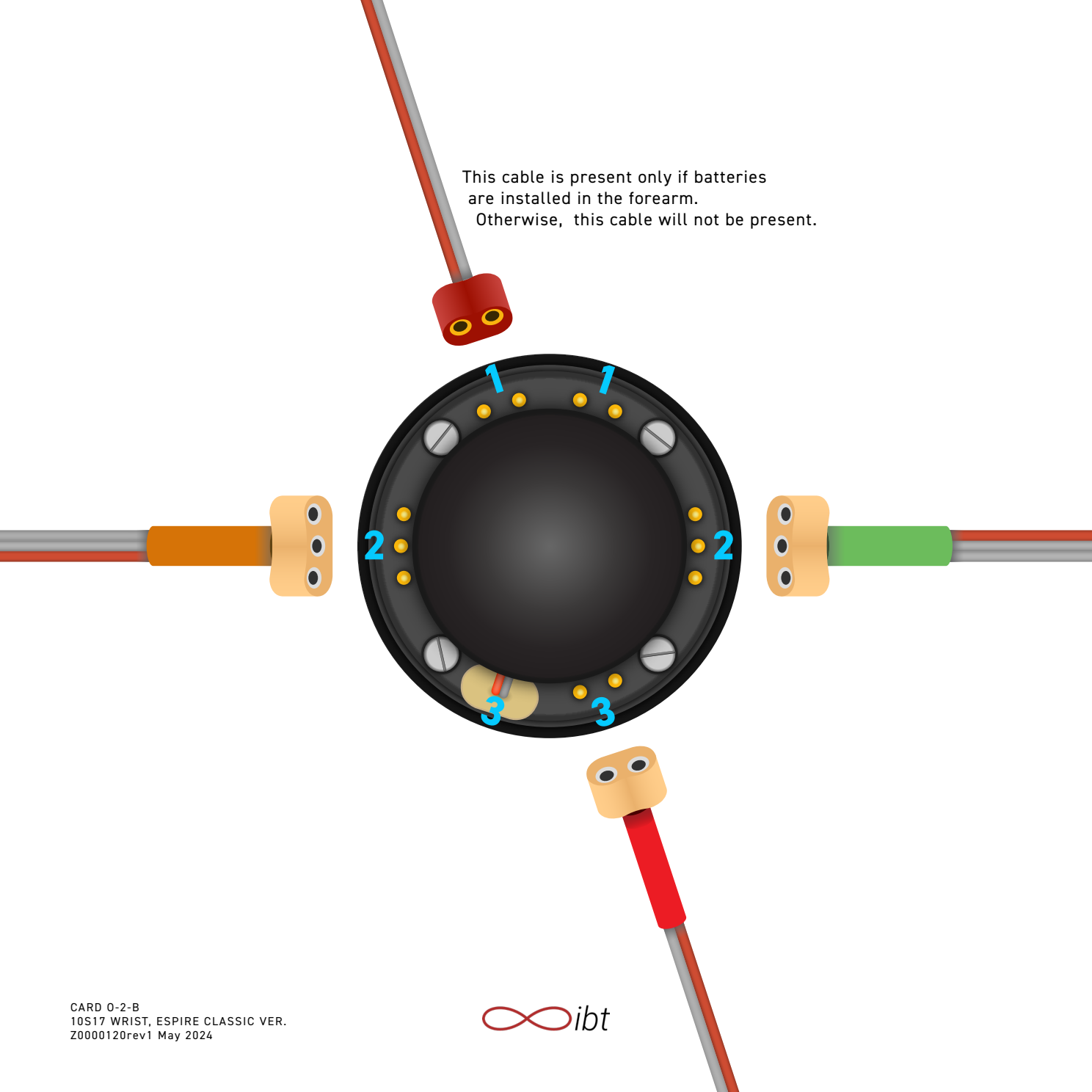
This cable is present only if batteries are installed in the forearm. Otherwise, this cable will not be present.

Adapted Internal Elbow Cable

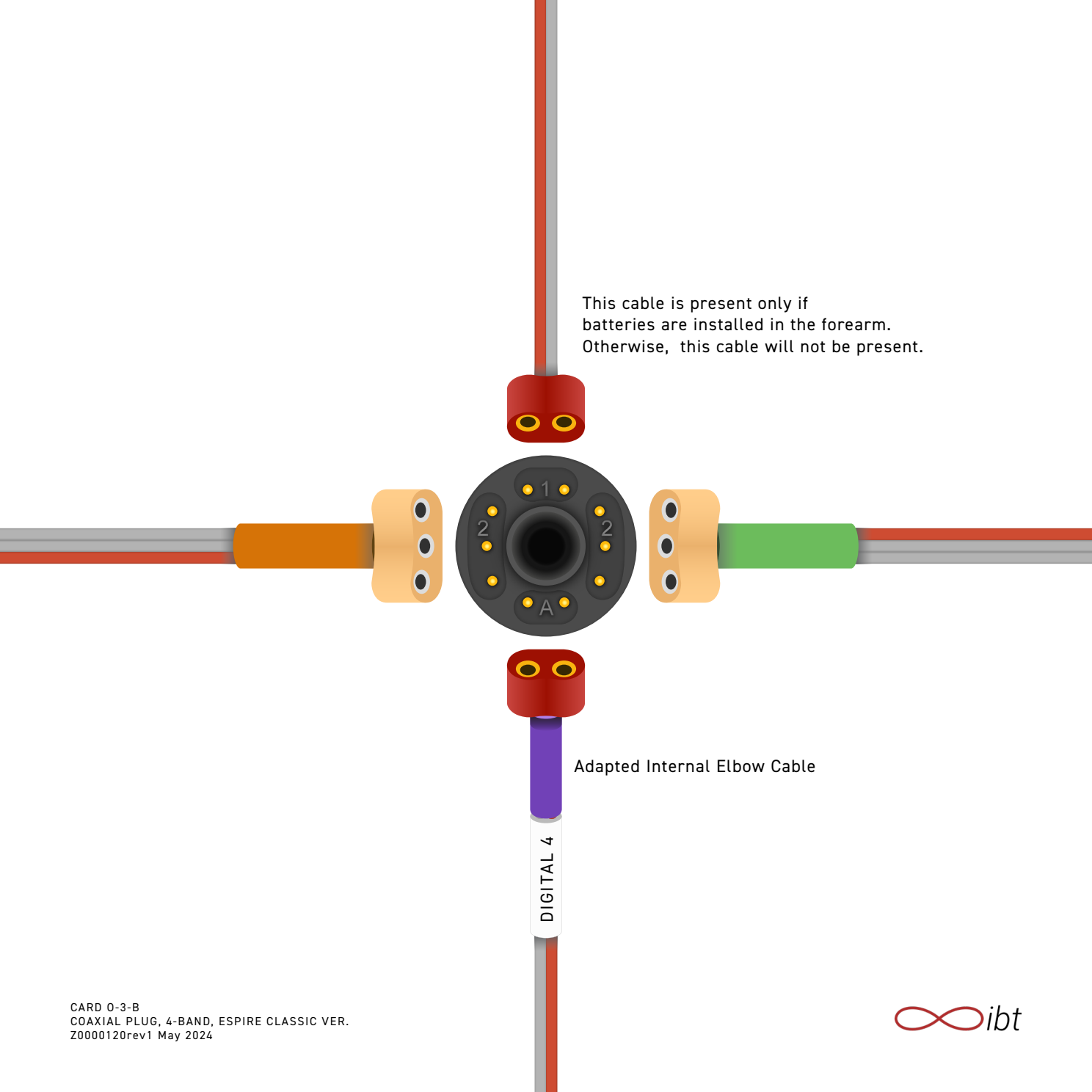


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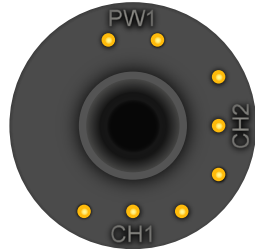


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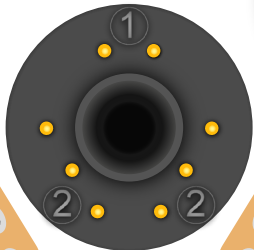
Adapted Internal Elbow Cable

This cable is present only if batteries are installed in the forearm.
Otherwise, this cable will not be present.

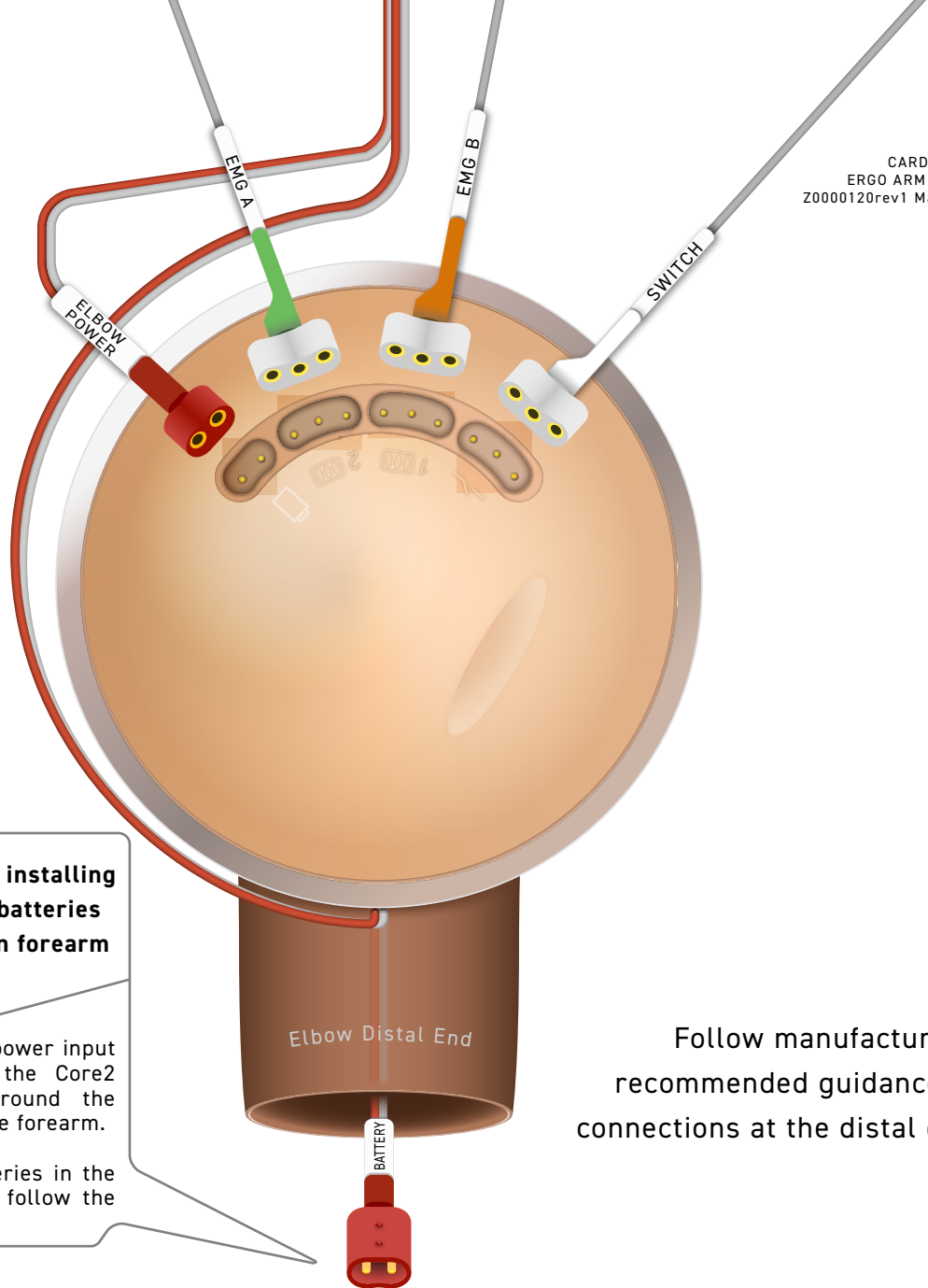


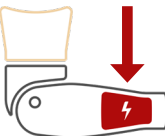
This cable is present only if batteries are installed in the forearm.
Otherwise, this cable will not be present.

Otherwise, this cable will not be present.



CARD 0-4-B
ESPIRE CLASSIC VER.
20000120/rev1 May 2024

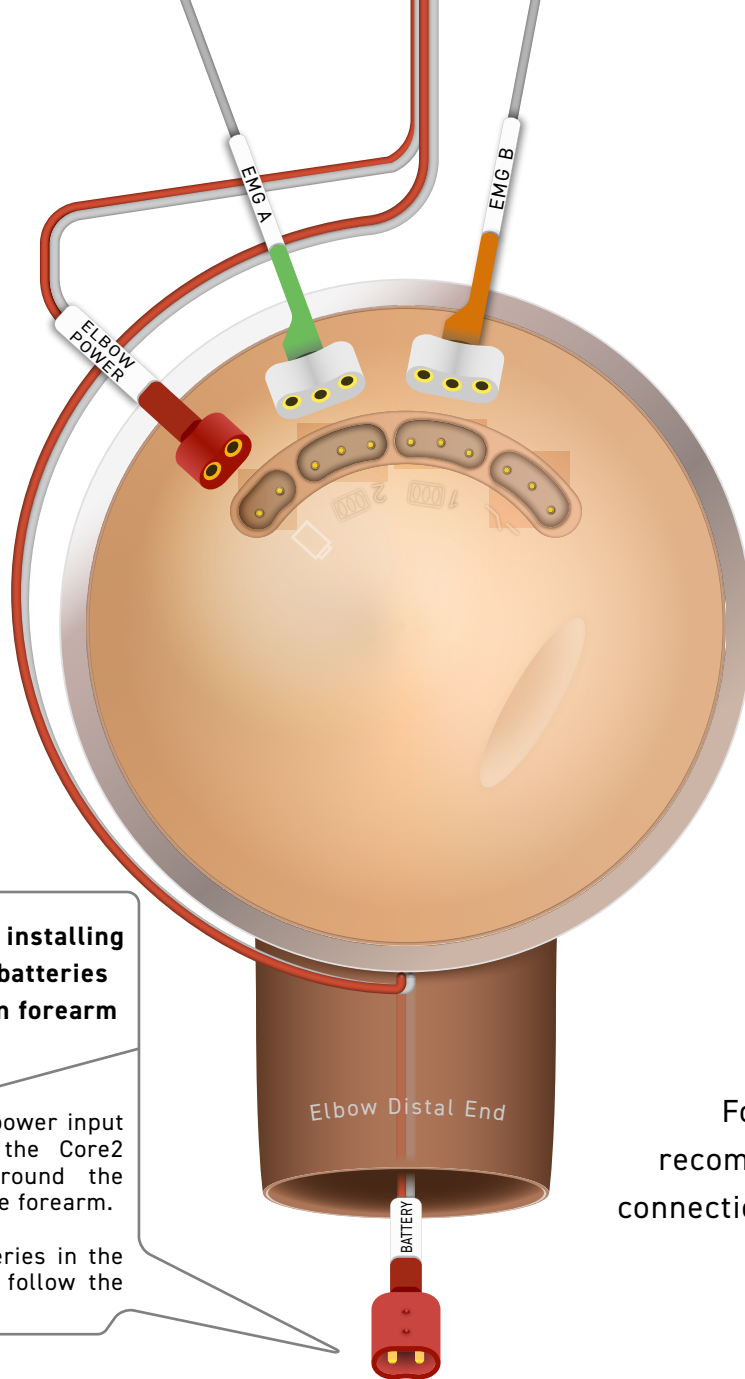


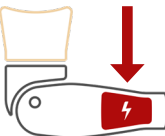
 **If installing batteries in forearm**

Route the 2-Pin power input connector from the Core2 Output Cable around the elbow and into the forearm.

If installing batteries in the humeral section, follow the Input diagram.

Follow manufacturer's recommended guidance on connections at the distal end.

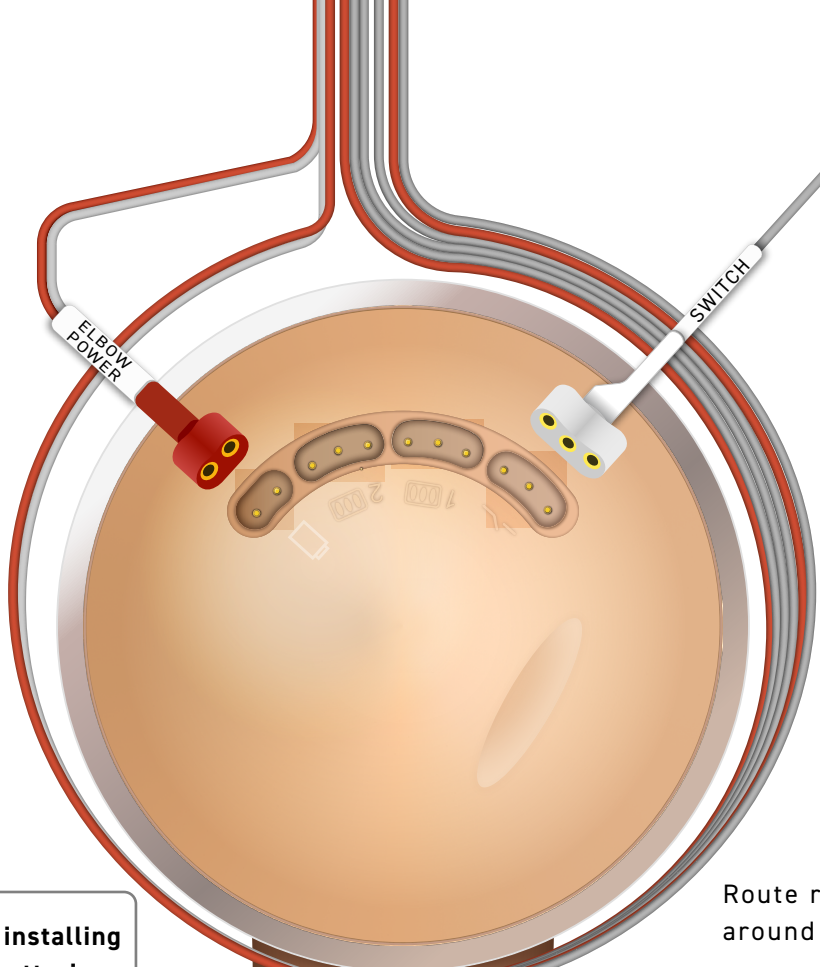


 **If installing batteries in forearm**

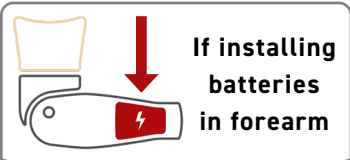
Route the 2-Pin power input connector from the Core2 Output Cable around the elbow and into the forearm.

If installing batteries in the humeral section, follow the Input diagram.

Follow manufacturer's recommended guidance on connections at the distal end.



Route remaining cables around the elbow.



If installing batteries in forearm

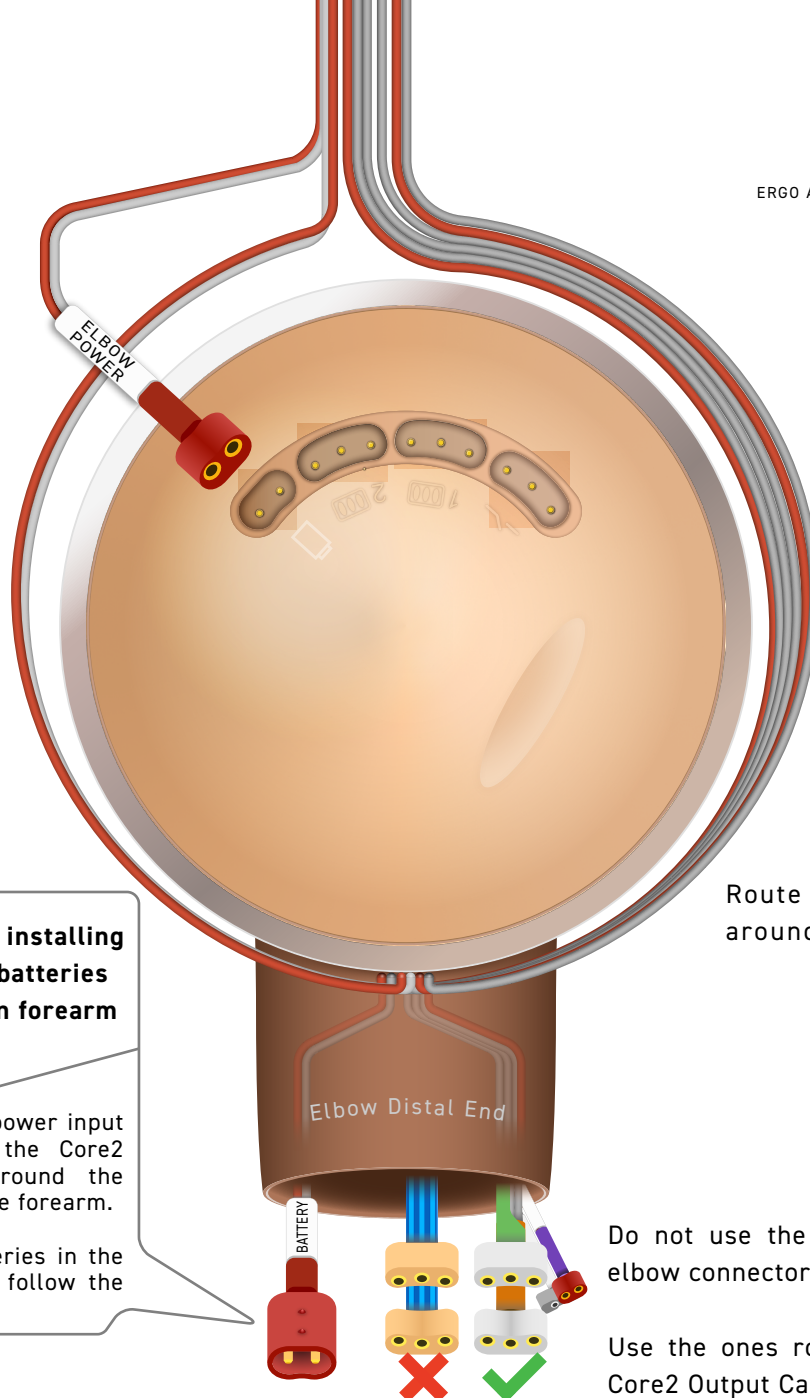
Route the 2-Pin power input connector from the Core2 Output Cable around the elbow and into the forearm.

If installing batteries in the humeral section, follow the Input diagram.

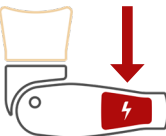


Do not use the internal 3-Pin elbow connectors.

Use the ones routed from the Core2 Output Cable instead.



Route remaining cables around the elbow.

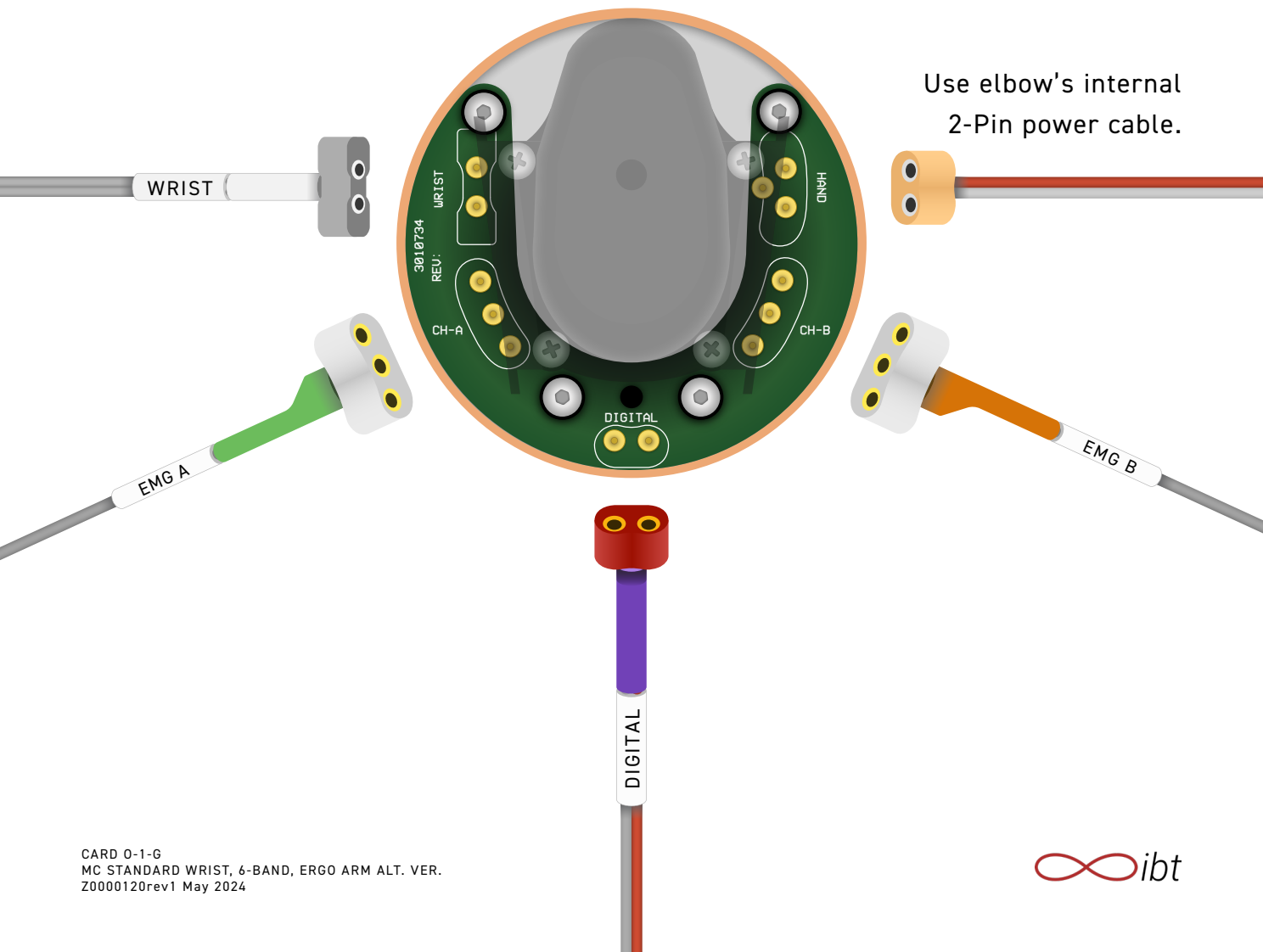
 **If installing batteries in forearm**

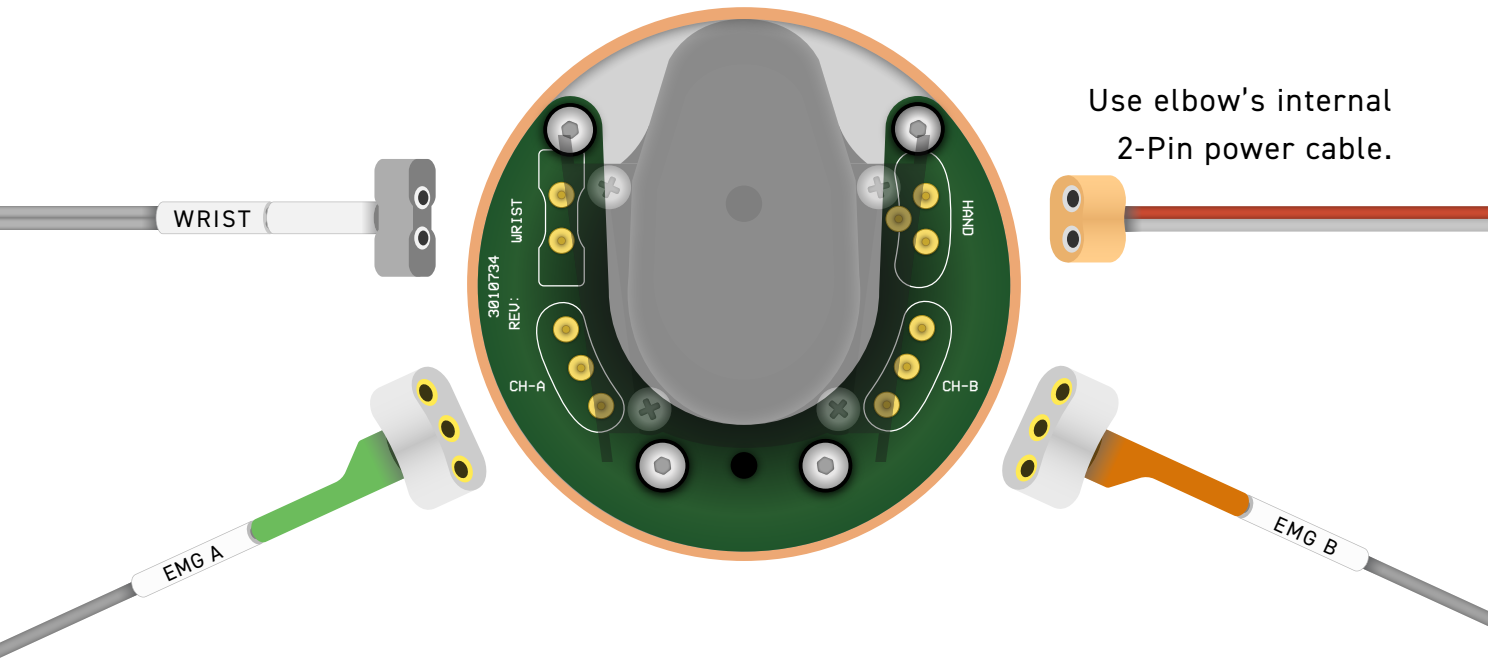
Route the 2-Pin power input connector from the Core2 Output Cable around the elbow and into the forearm.

If installing batteries in the humeral section, follow the Input diagram.

Do not use the internal 3-Pin elbow connectors.

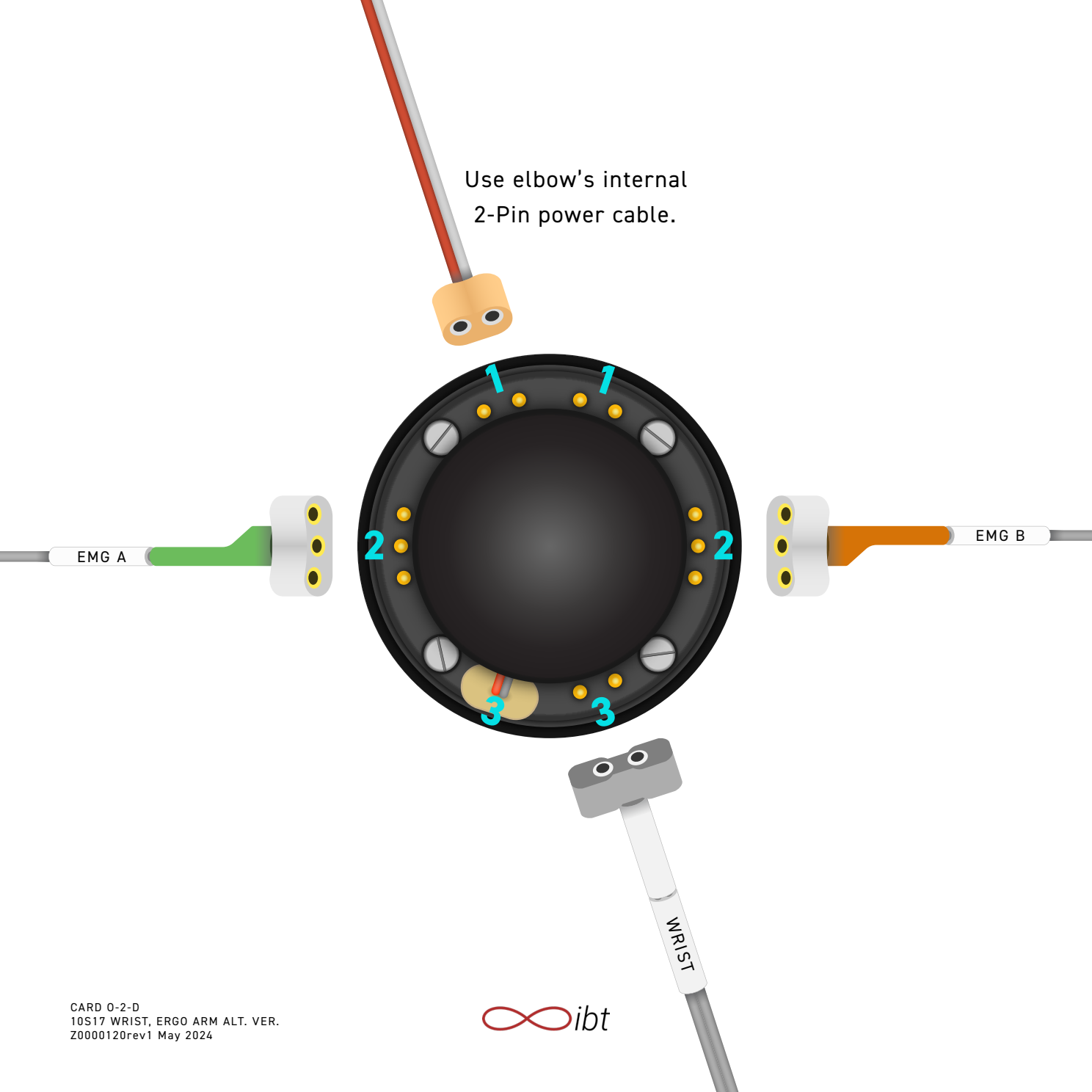
Use the ones routed from the Core2 Output Cable instead.

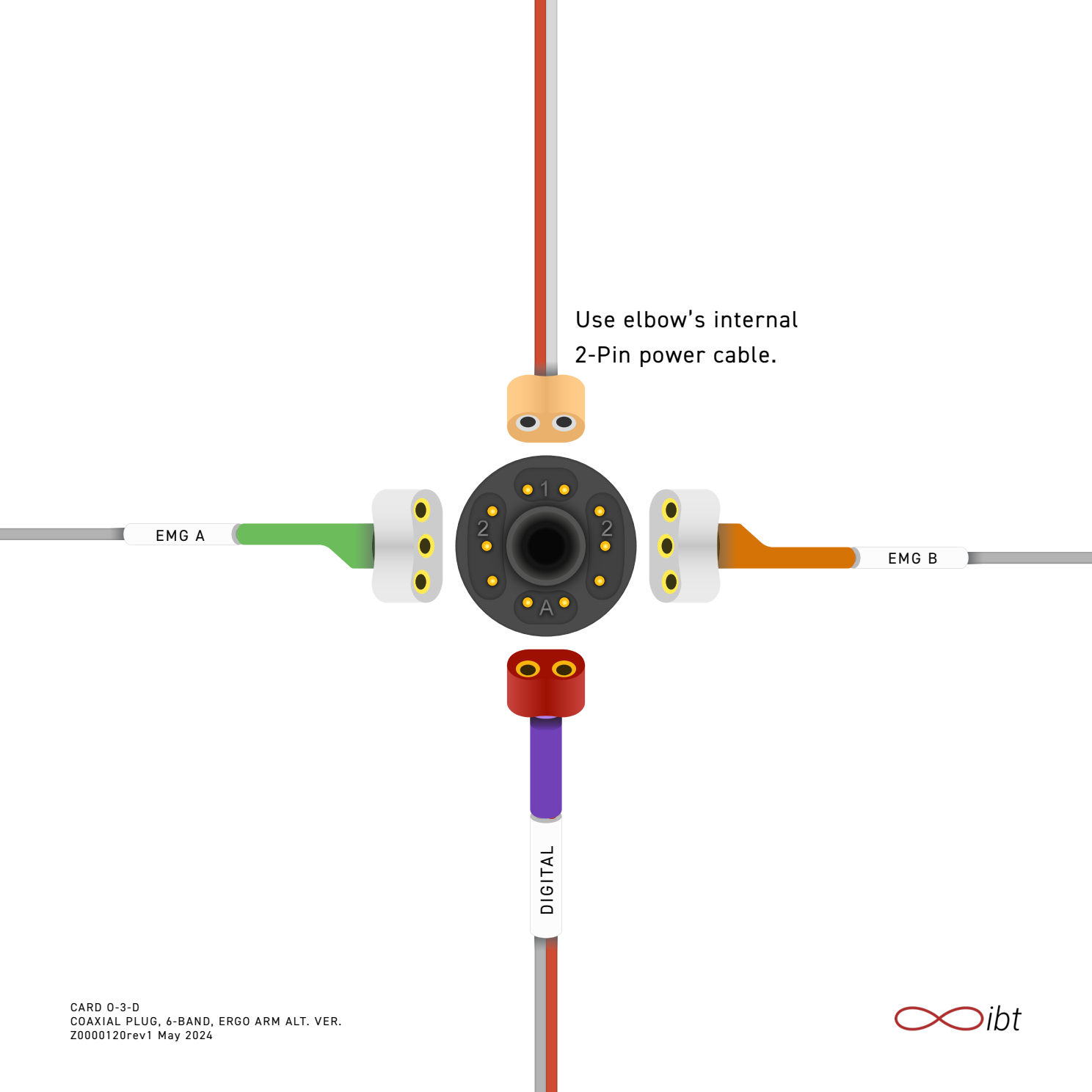




Use elbow's internal
2-Pin power cable.

Use elbow's internal
2-Pin power cable.





Use elbow's internal
2-Pin power cable.

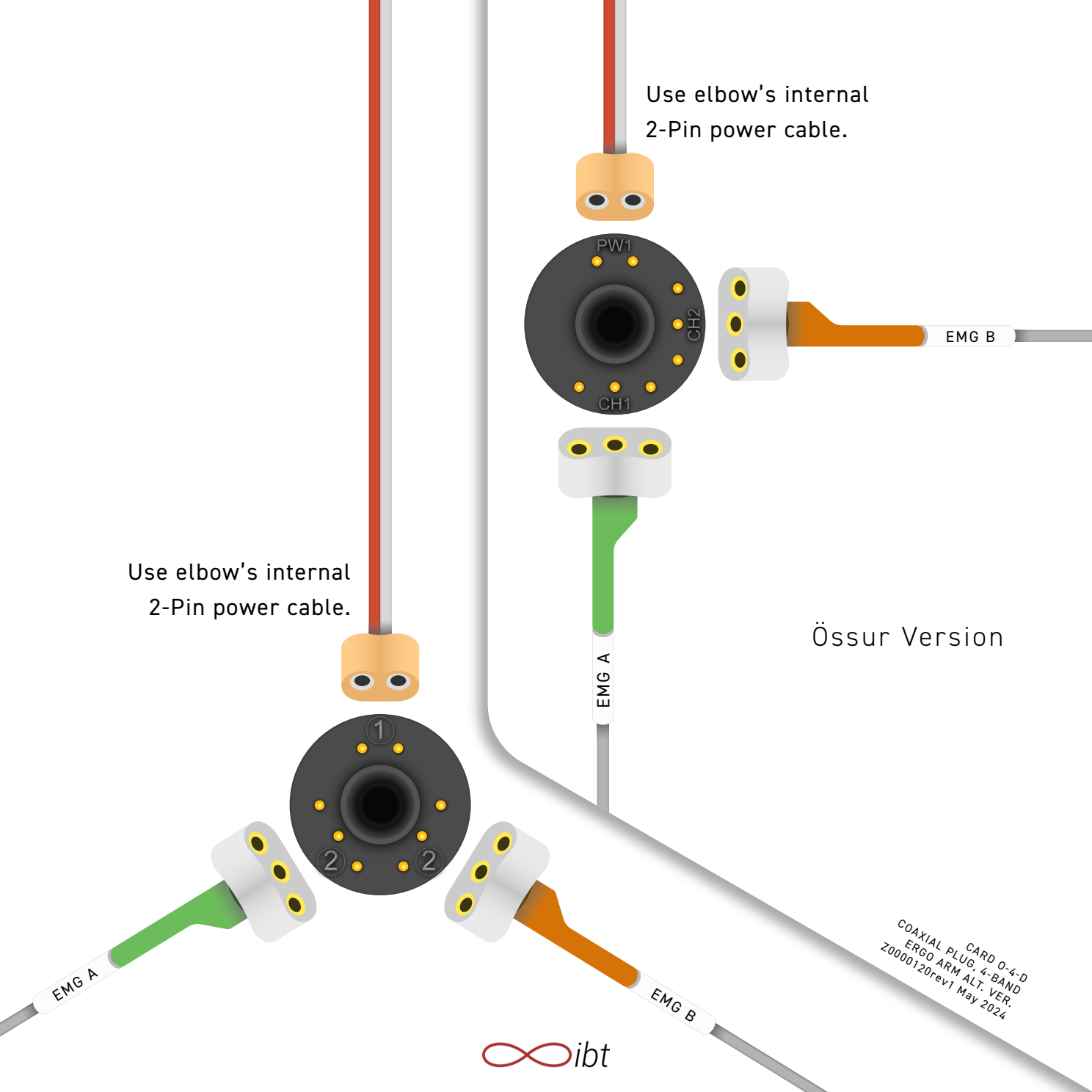
EMG A

EMG B

DIGITAL

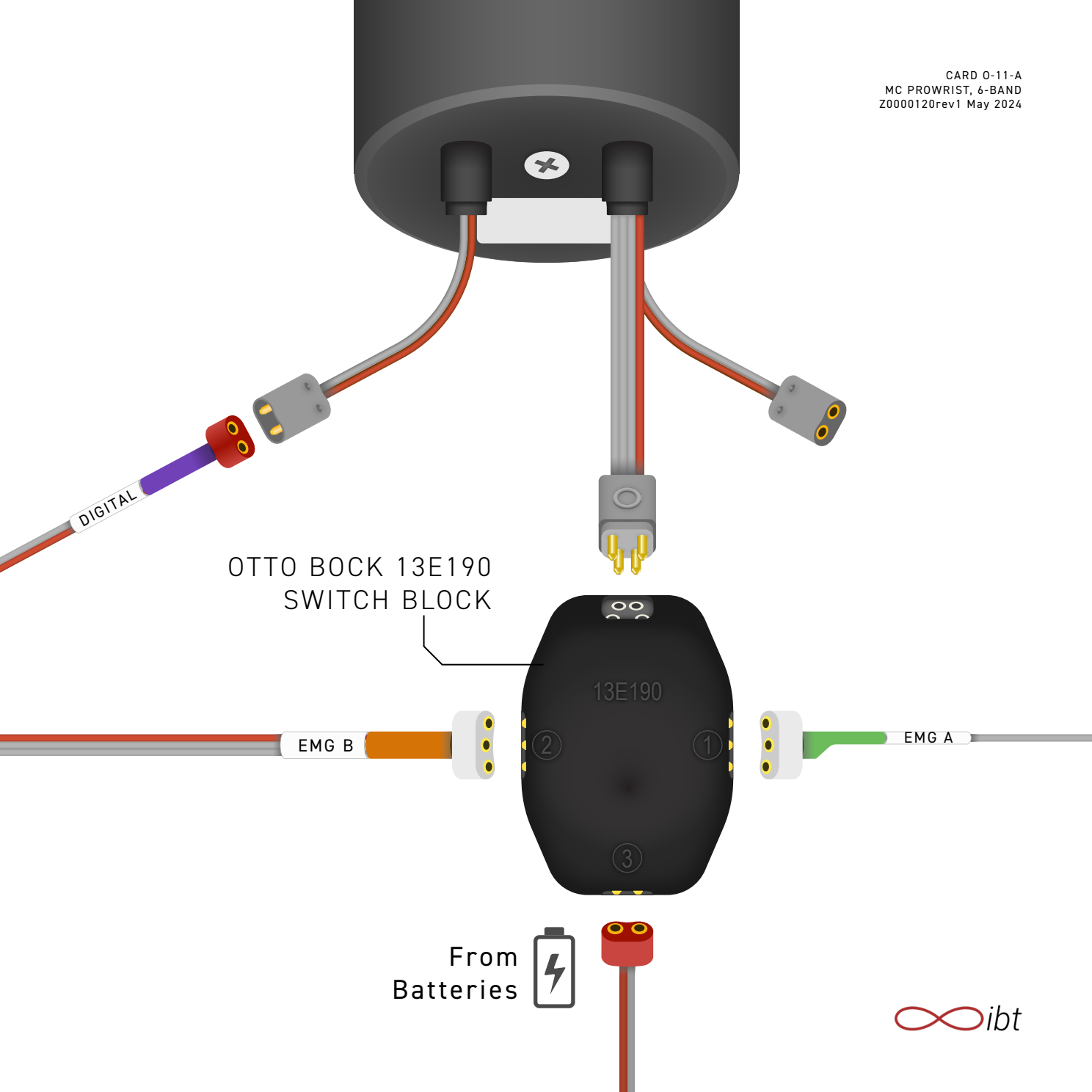
Use elbow's internal
2-Pin power cable.

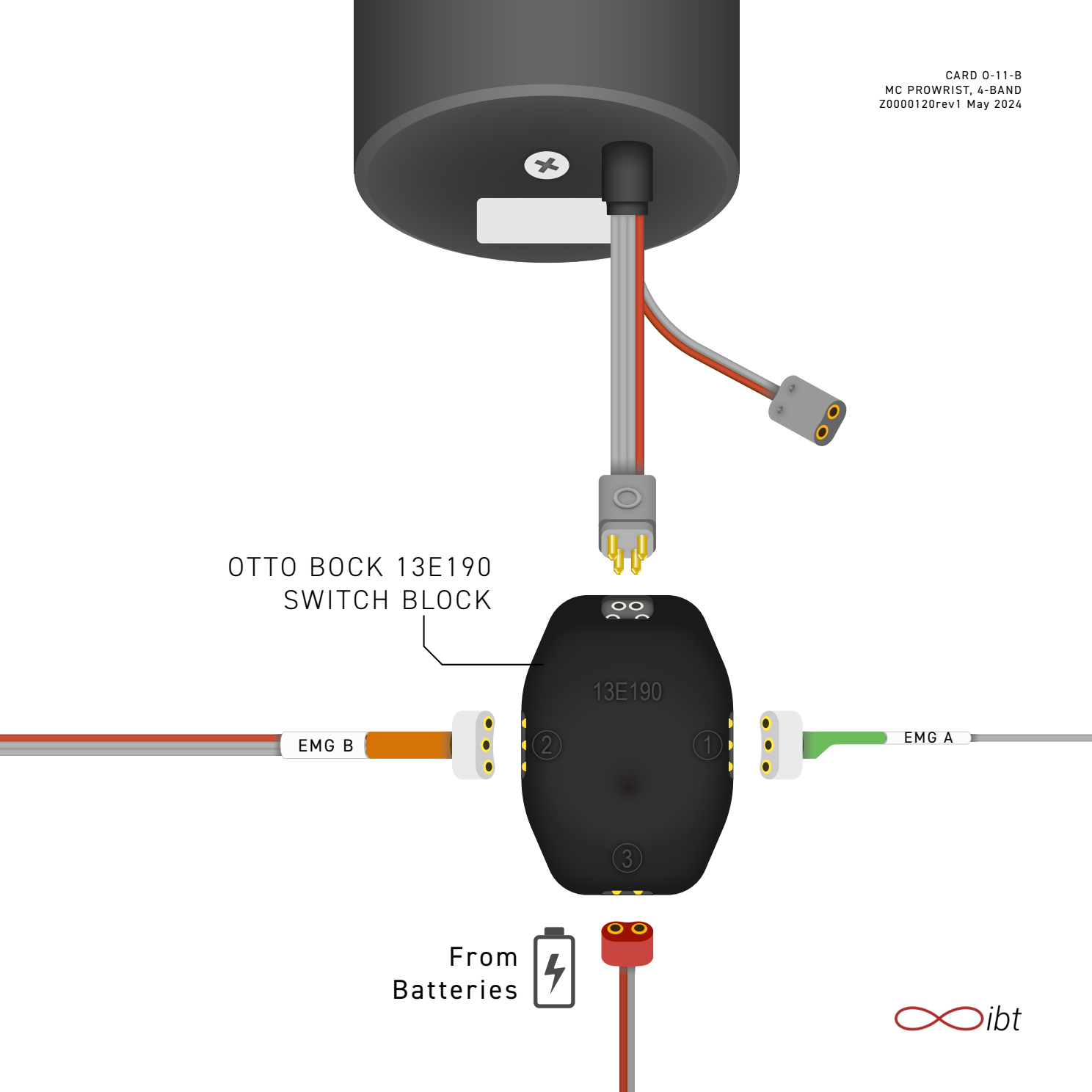
Use elbow's internal
2-Pin power cable.



Össur Version

COAXIAL PLUG, 4-BAND
ERGO ARM ALT. VER.
20000120rev1 May 2024





OTTO BOCK 13E190
SWITCH BLOCK

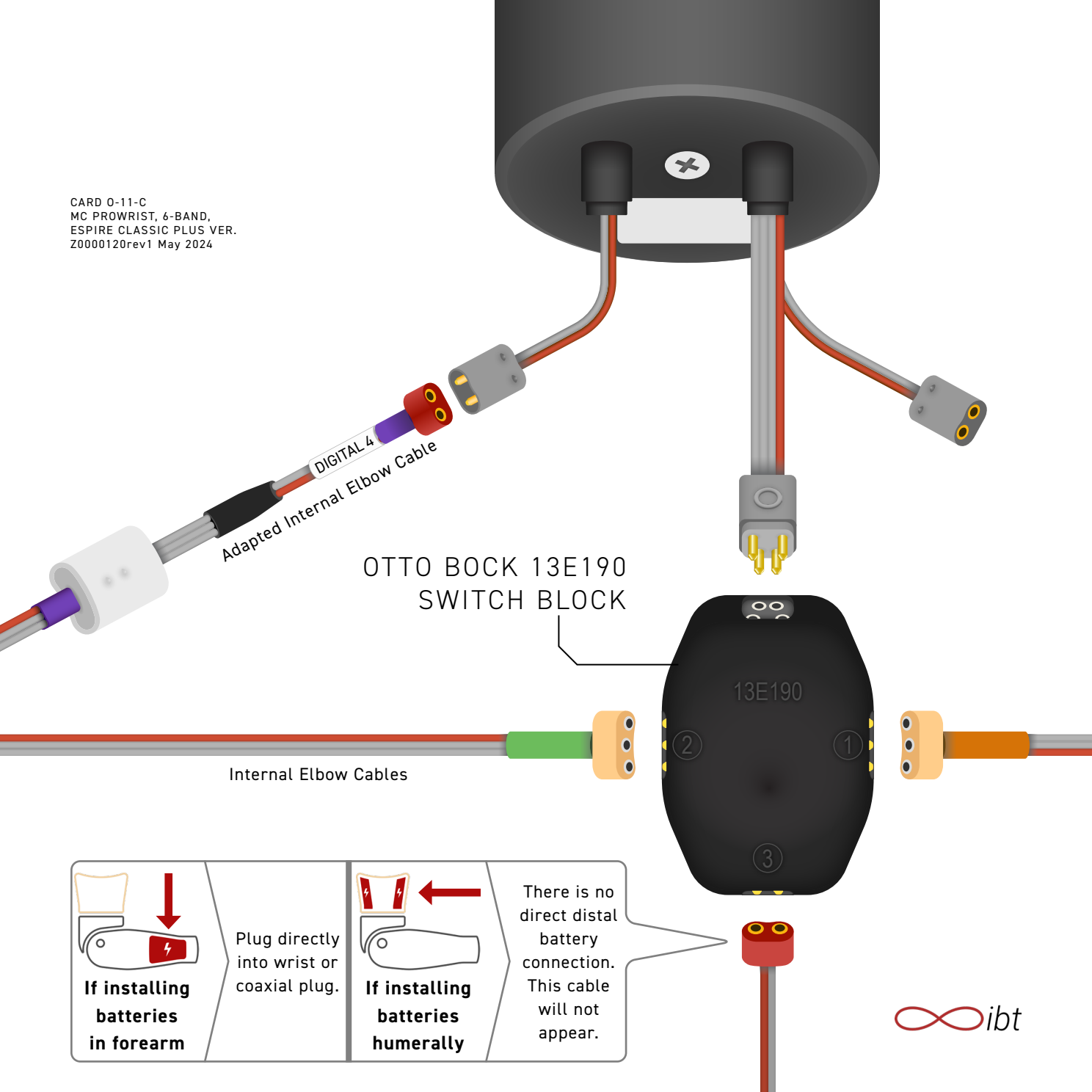
13E190

EMG B

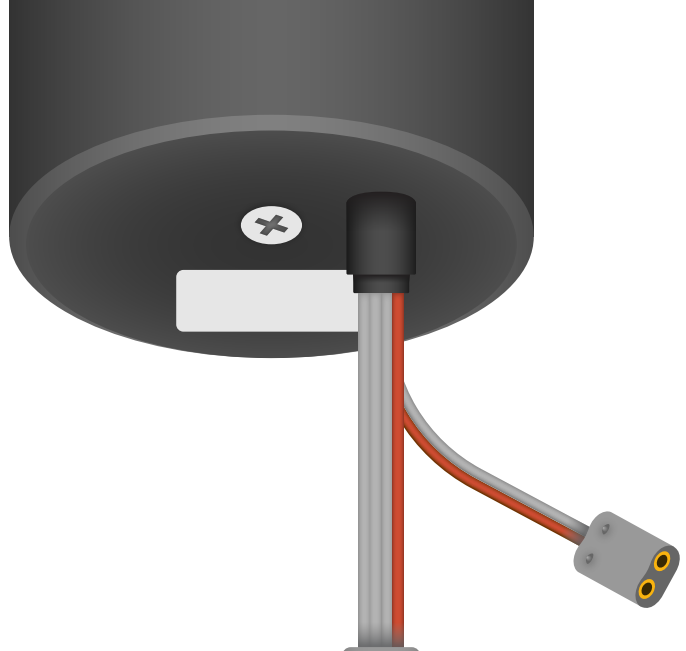
EMG A

From
Batteries

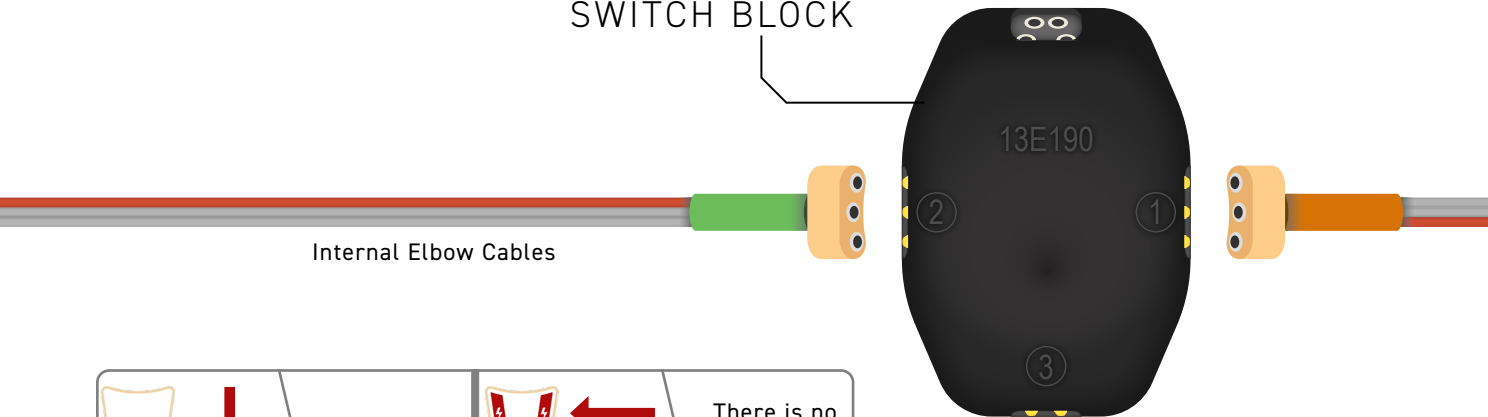
CARD 0-11-C
MC PROWRIST, 6-BAND,
ESPIRE CLASSIC PLUS VER.
Z0000120rev1 May 2024



CARD 0-11-D
MC PROWRIST, 4-BAND,
ESPIRE CLASSIC PLUS VER.
Z0000120rev1 May 2024

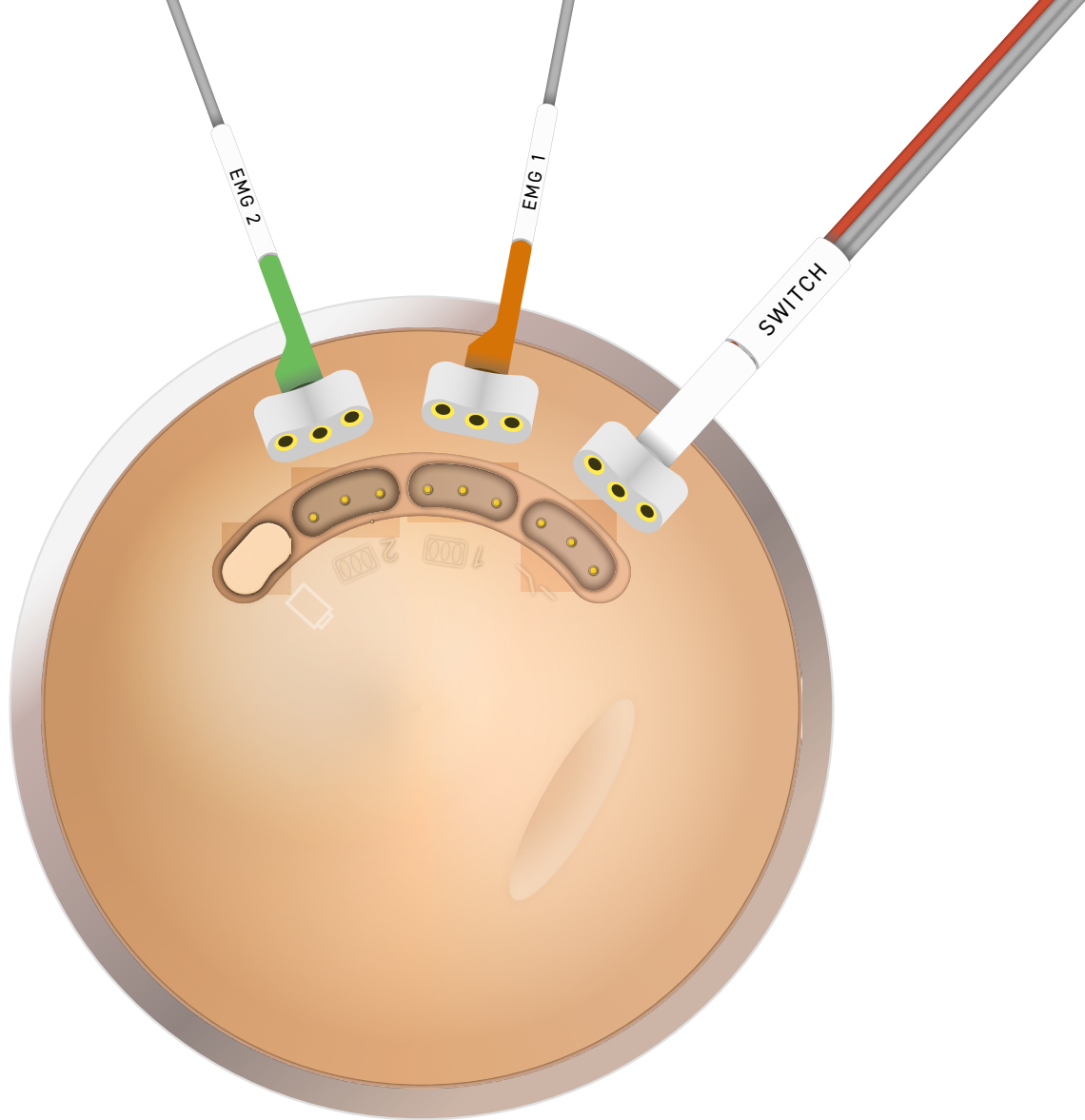


OTTO BOCK 13E190
SWITCH BLOCK



Internal Elbow Cables

	<p>If installing batteries in forearm</p> <p>Plug directly into wrist or coaxial plug.</p>		<p>If installing batteries humerally</p> <p>There is no direct distal battery connection. This cable will not appear.</p>
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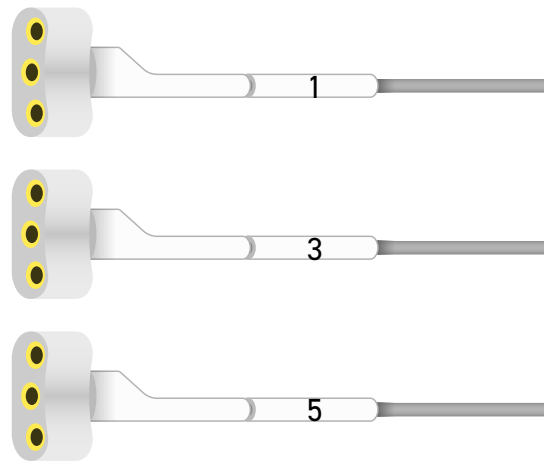
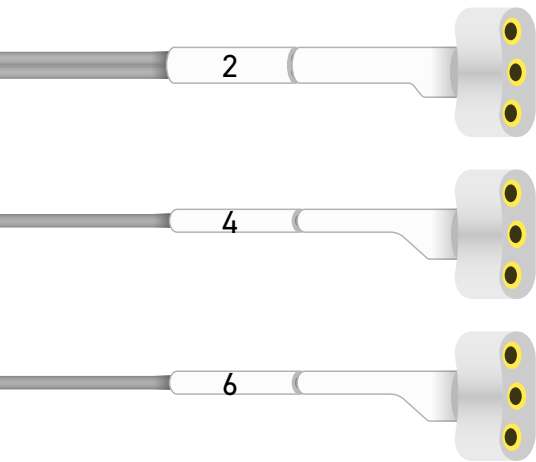


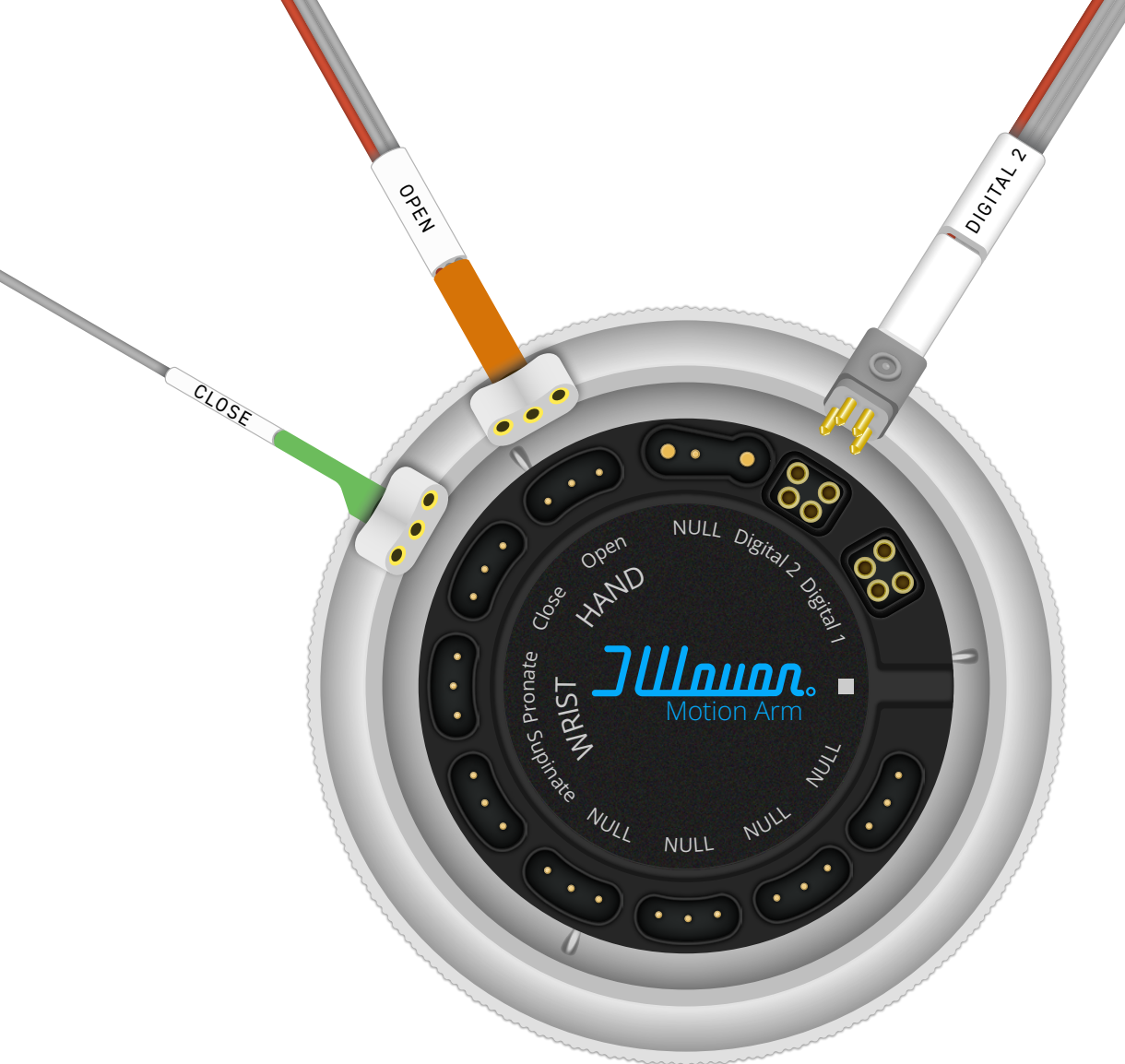
Follow manufacturer's recommended guidance
on connections at the distal end.

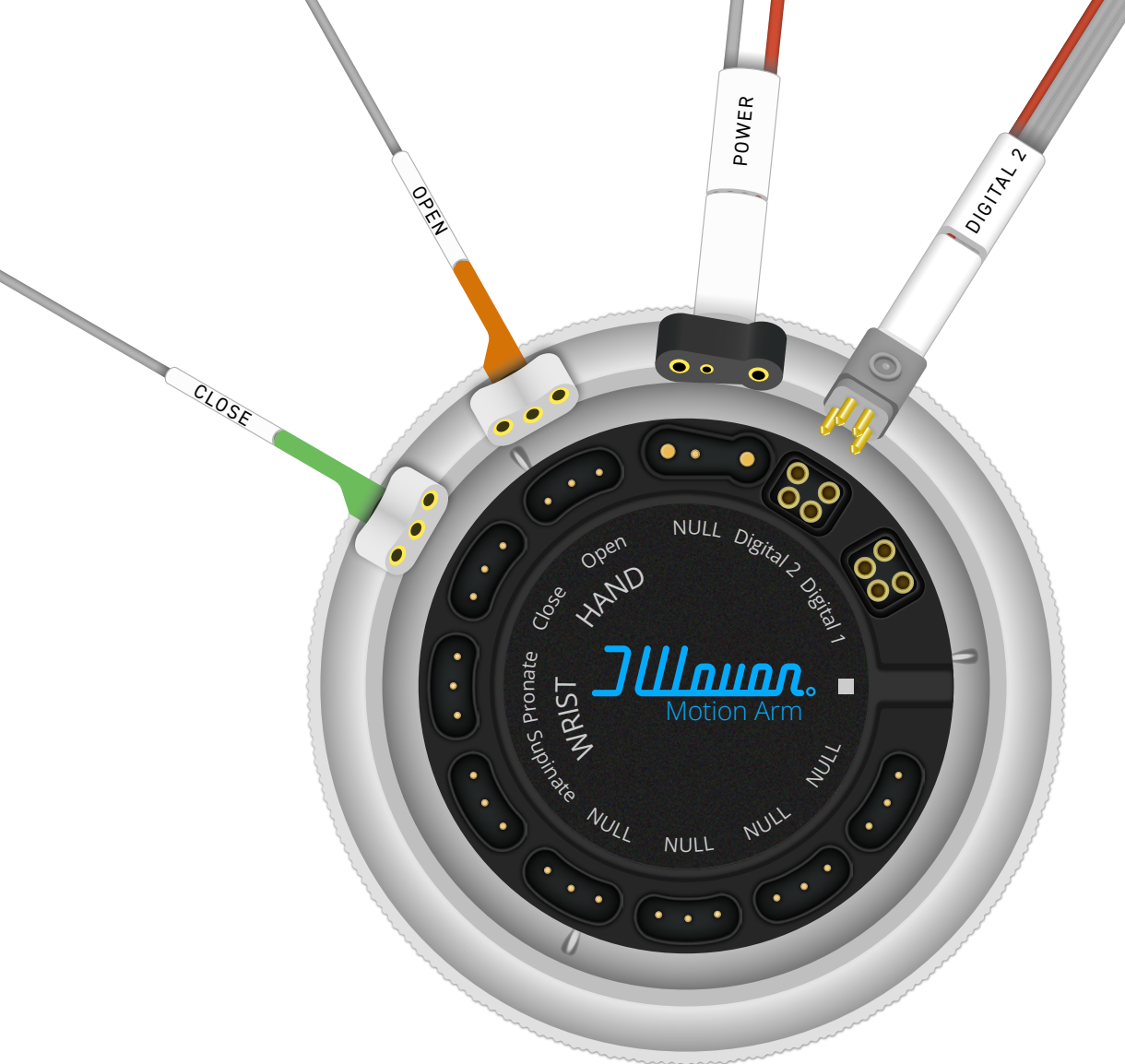


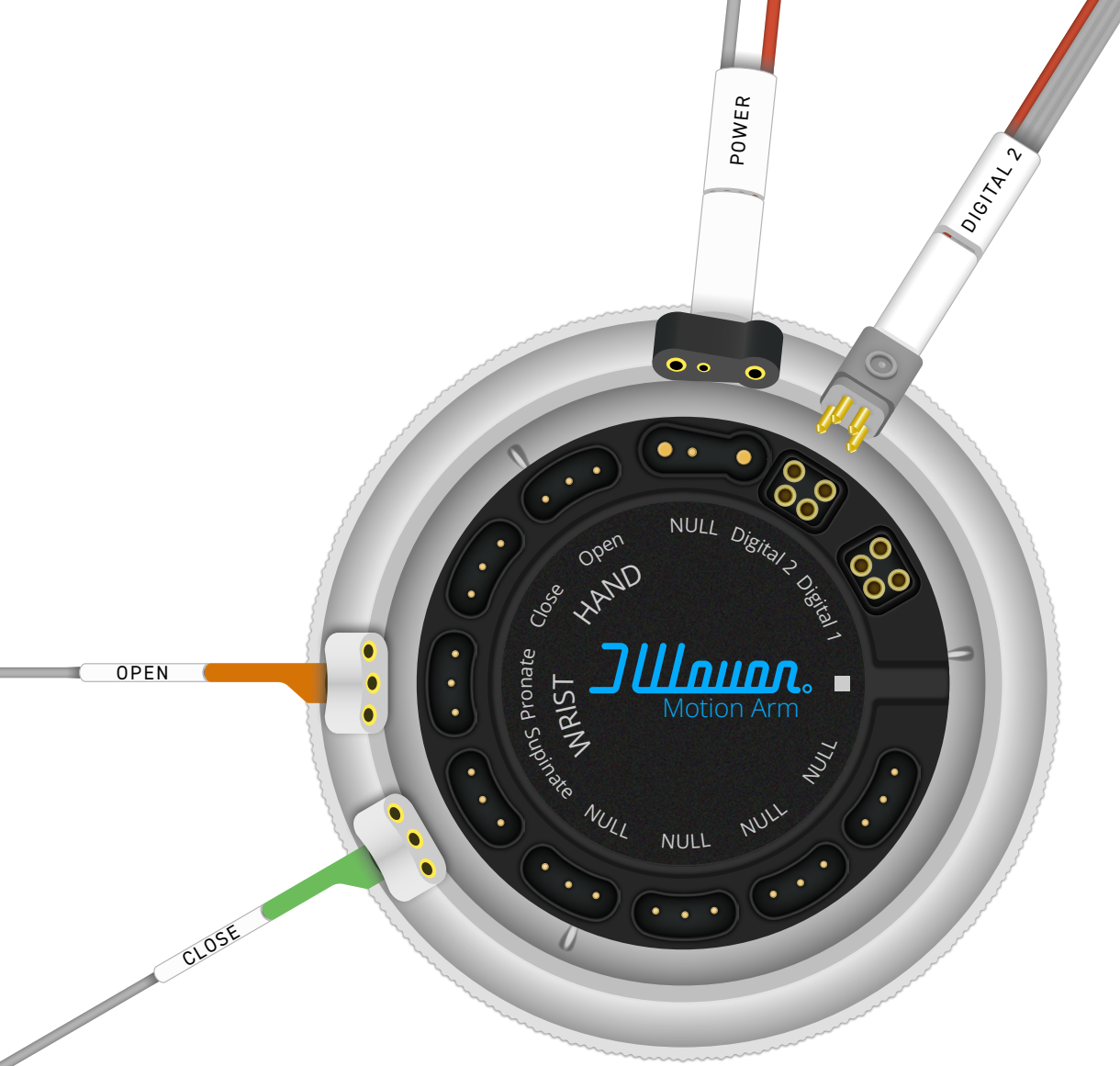
To Elbow Input

Follow manufacturer's recommended guidance on connections at the distal end.



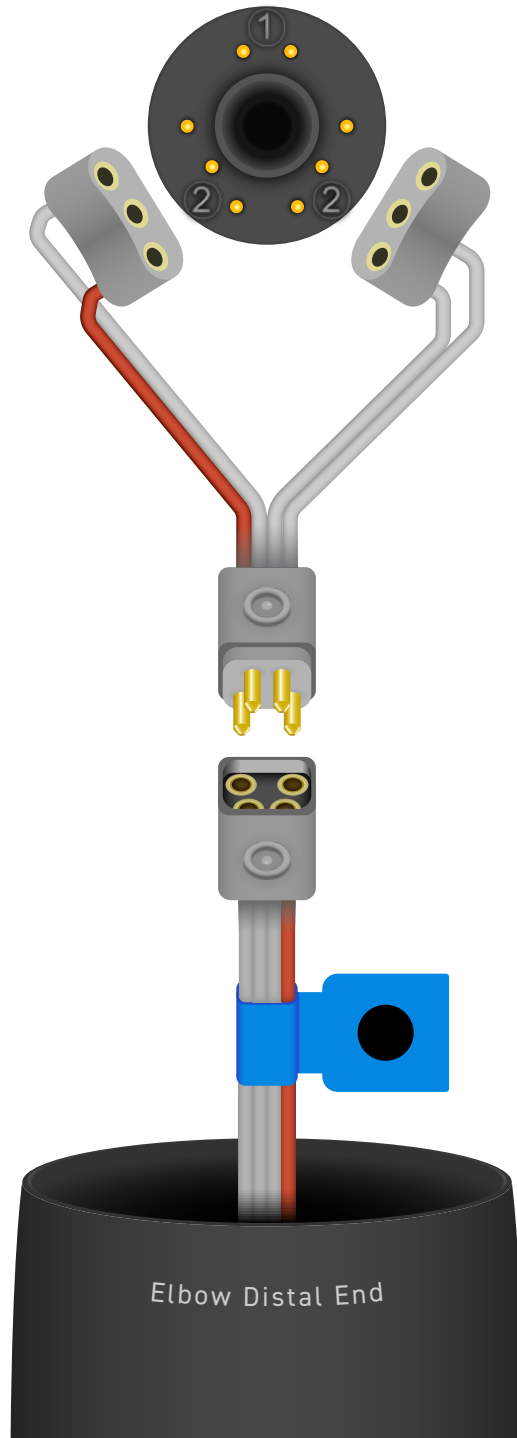






CARD 0-14-C
MOTION ARM ELECTRIC LOCK, 4B DIGITAL + WRIST
Z0000120rev1 May 2024



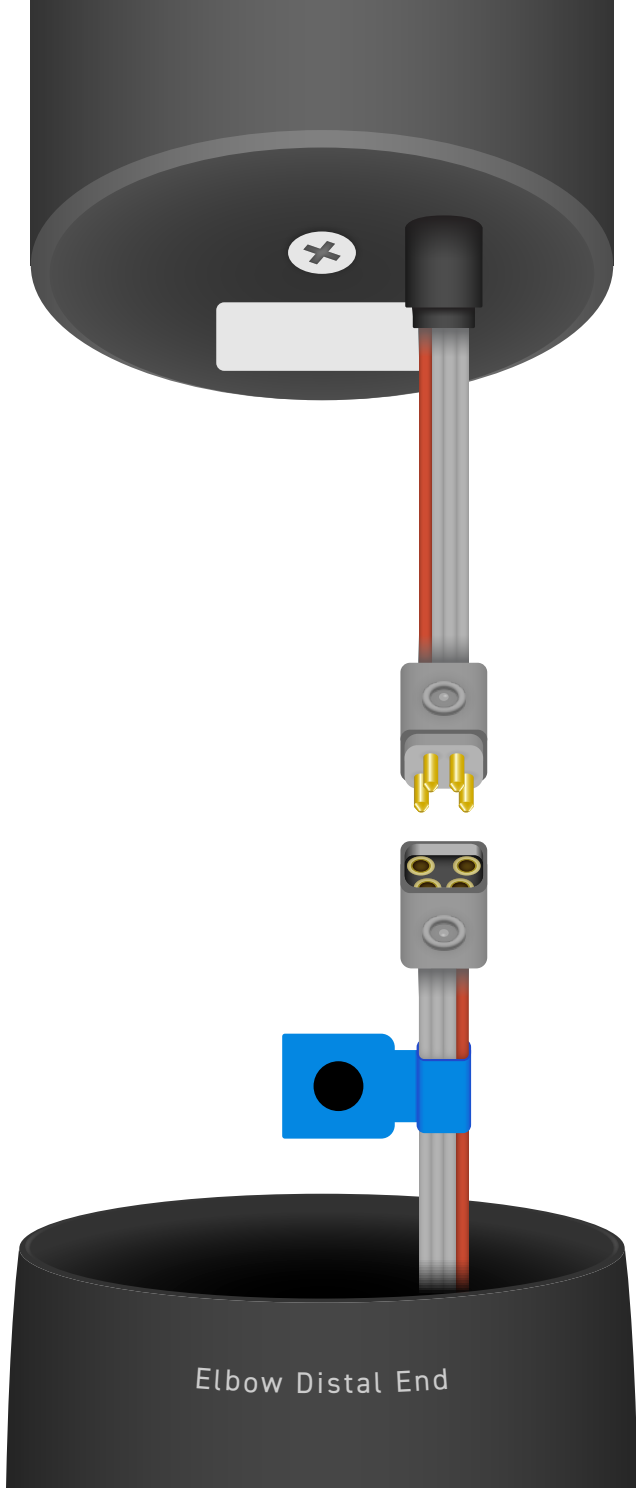


CARD 0-4-F
COAXIAL PLUG, 4-BAND

FOR MOTION ARM ELECTRIC LOCK,
ANALOG HAND
& MOTION ARM MANUAL LOCK,
3+4-BAND DIGITAL

Z0000120rev1 May 2024

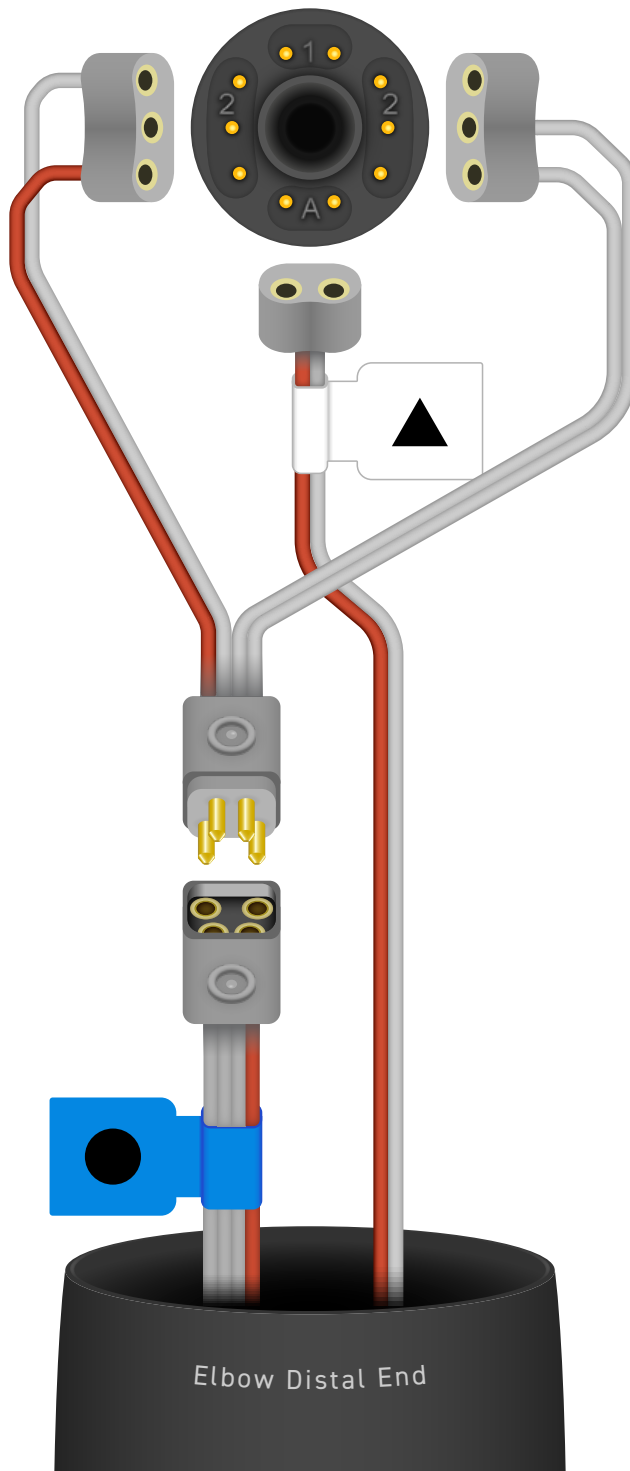
 *ibt*



CARD 0-11-H
MC PROWRIST, 4-BAND, SEQUENTIAL
MOTION ARM ELECTRIC LOCK VER.
Z0000120rev1 May 2024



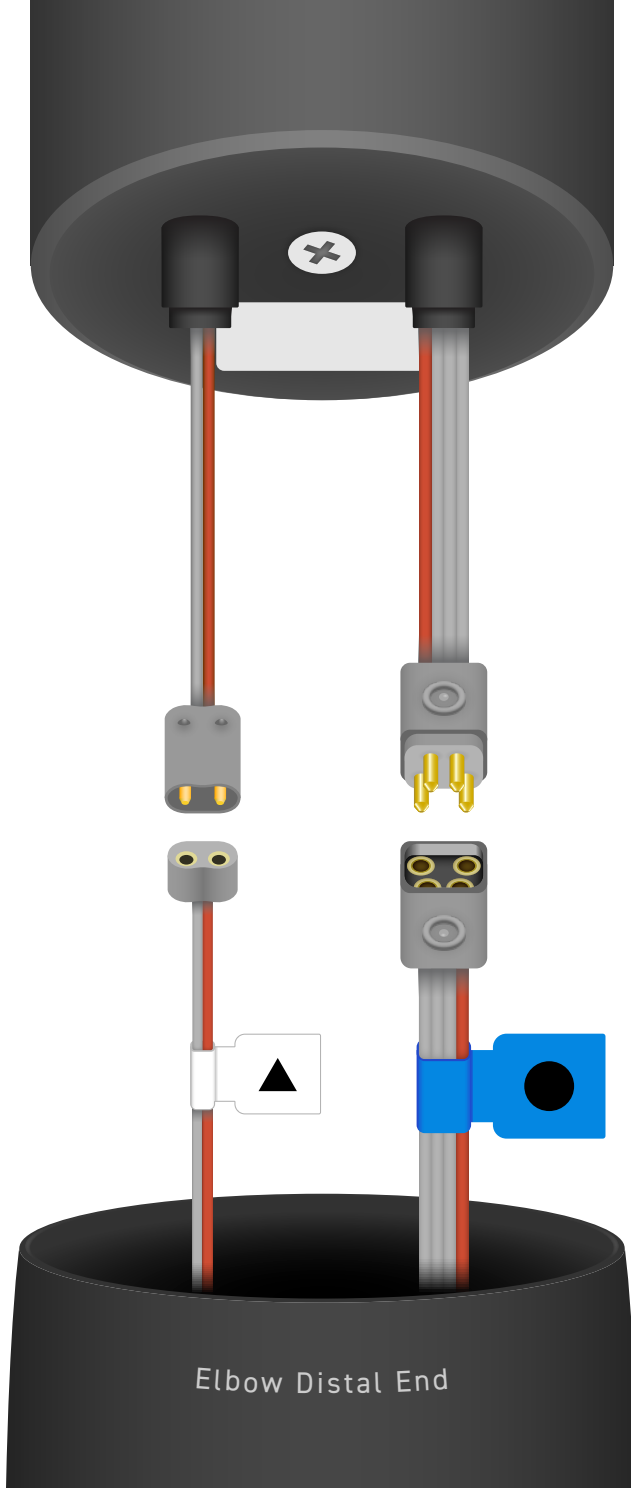
Elbow Distal End



CARD 0-3-F
COAXIAL PLUG, 6-BAND
MOTION ARM ELECTRIC LOCK VER.
Z0000120rev1 May 2024

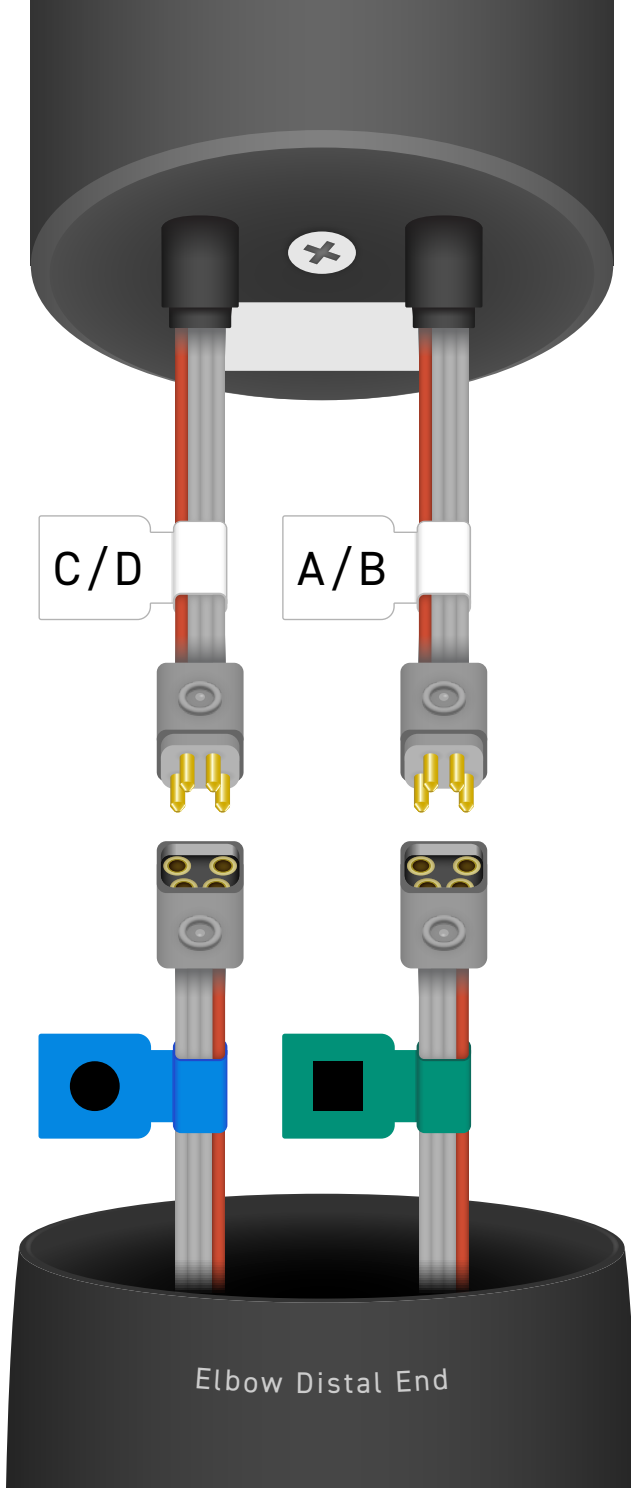


Elbow Distal End



CARD 0-11-G
MC PROWRIST, 6-BAND, SEQUENTIAL
MOTION ARM ELECTRIC LOCK VER.
Z0000120rev1 May 2024





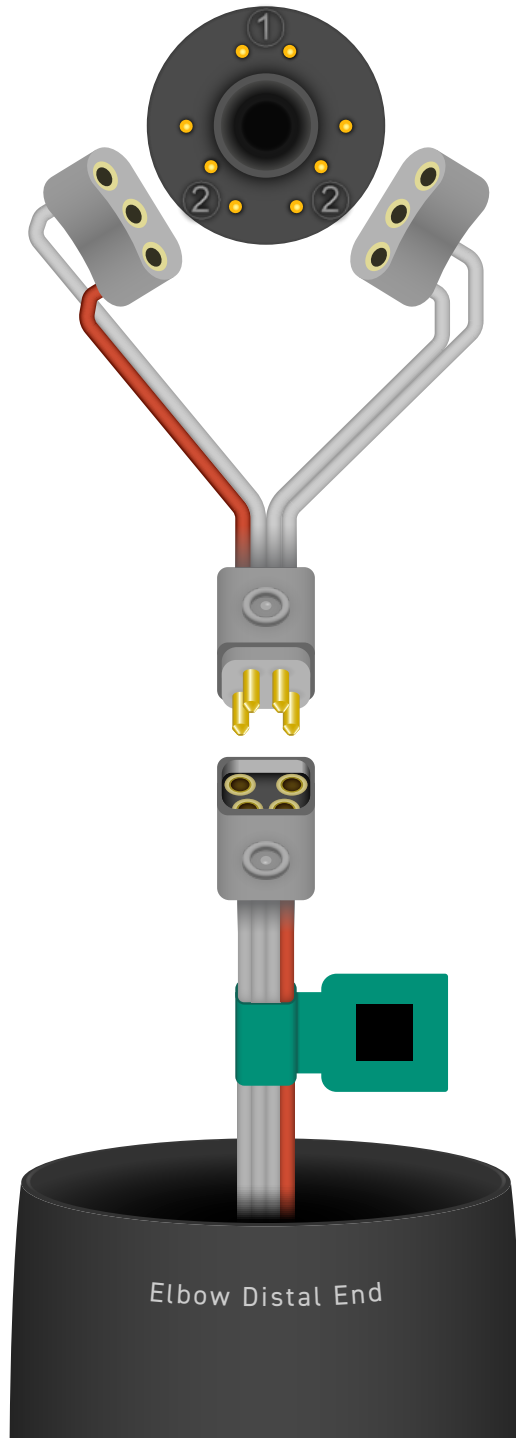
CARD 0-11-1
MC PROWRIST, 4-BAND, SIMULTANEOUS

FOR MOTION ARM
ELECTRIC AND MANUAL LOCK

Z0000120rev1 May 2024

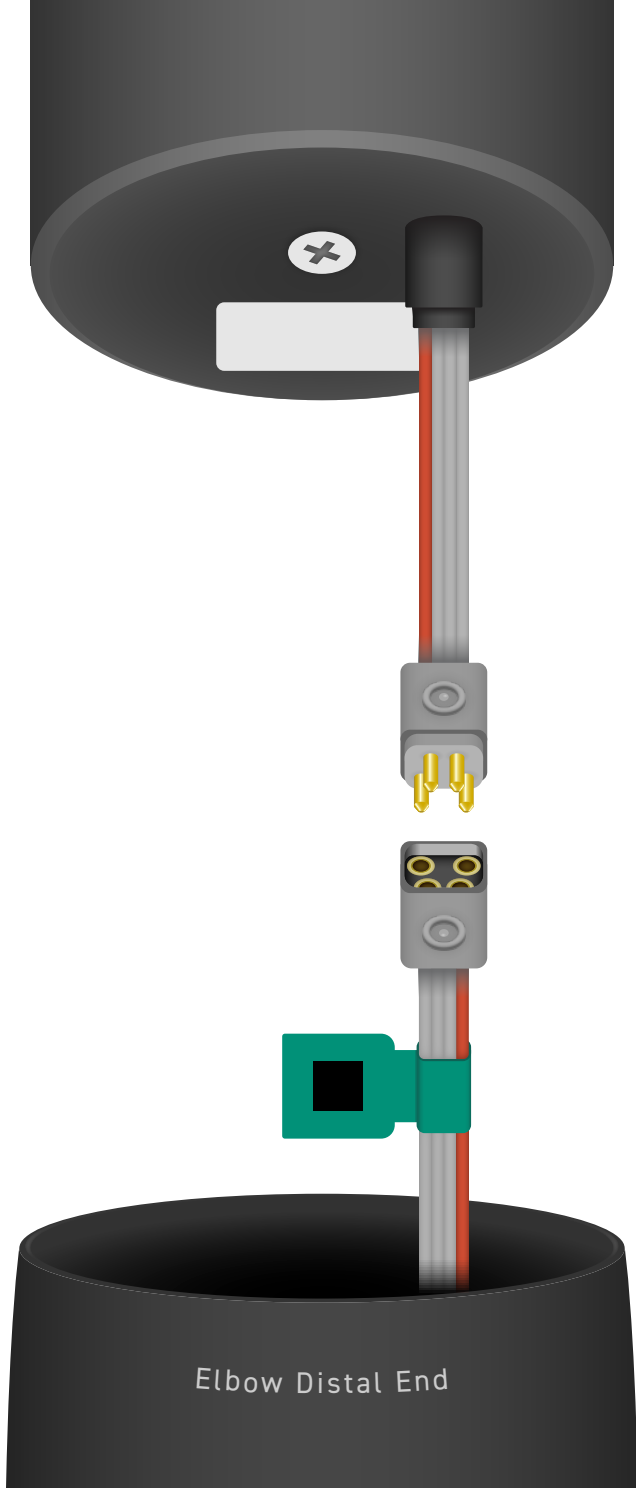


Elbow Distal End



CARD 0-4-E
COAXIAL PLUG, 4-BAND
MOTION ARM MANUAL LOCK VER.
Z0000120rev1 May 2024

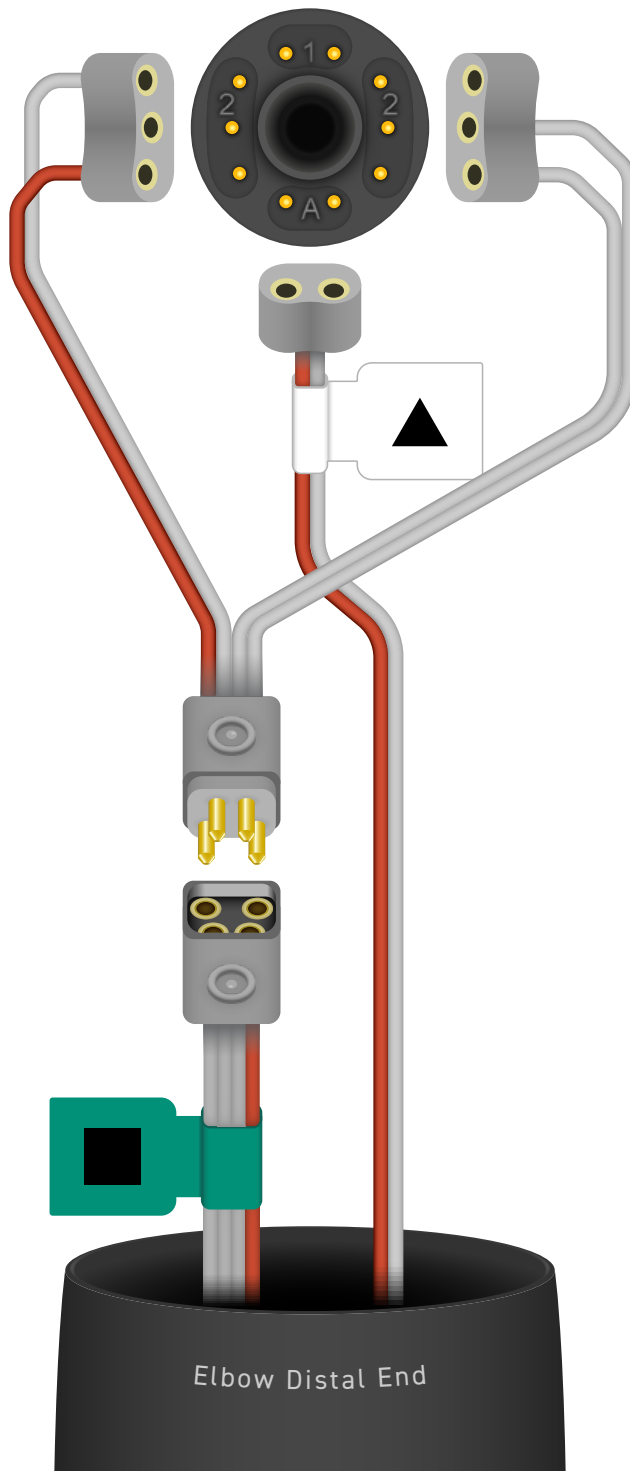




CARD 0-11-F
MC PROWRIST, 4-BAND, SEQUENTIAL
MOTION ARM MANUAL LOCK VER.
Z0000120rev1 May 2024



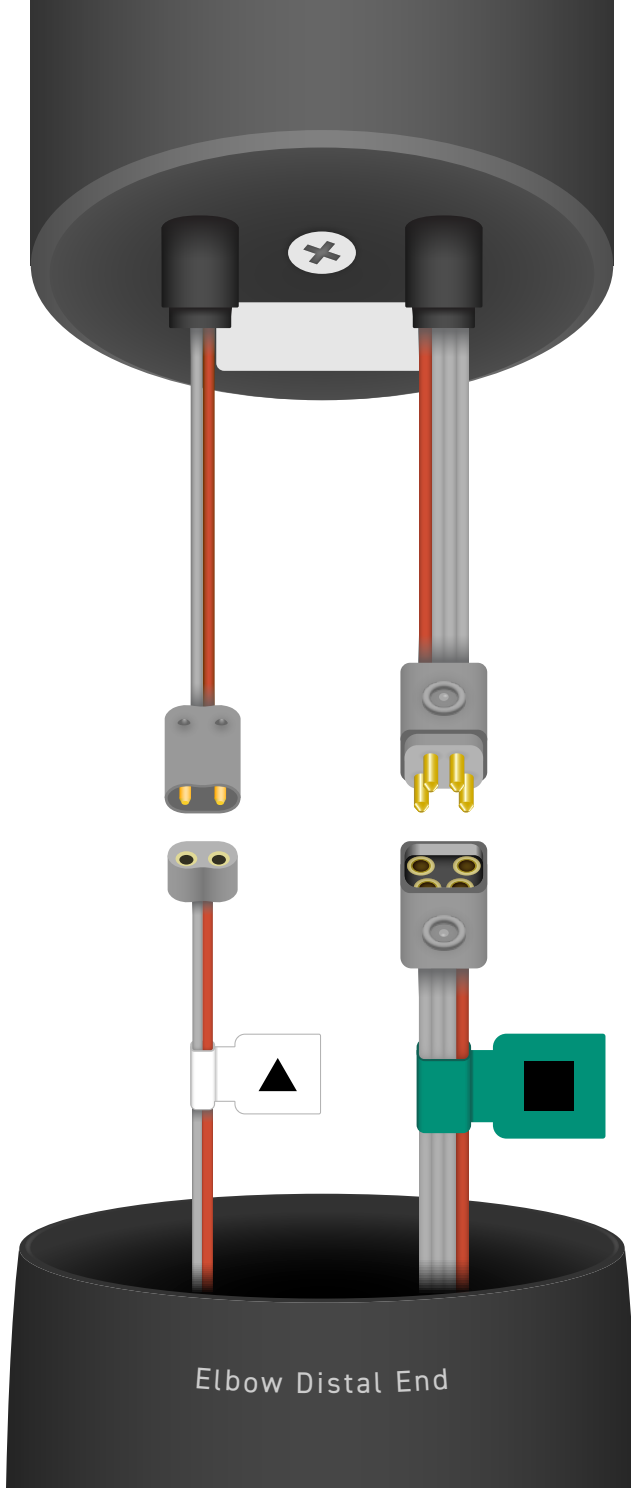
Elbow Distal End



CARD 0-3-E
COAXIAL PLUG, 6-BAND
MOTION ARM MANUAL LOCK VER.
Z0000120rev1 Apr 2024



Elbow Distal End



CARD 0-11-E
MC PROWRIST, 6-BAND, SEQUENTIAL
MOTION ARM MANUAL LOCK VER.
Z0000120rev1 Apr 2024



Elbow Distal End