Manual
for creating solderless DIY HDMI cabling included in the PureID series

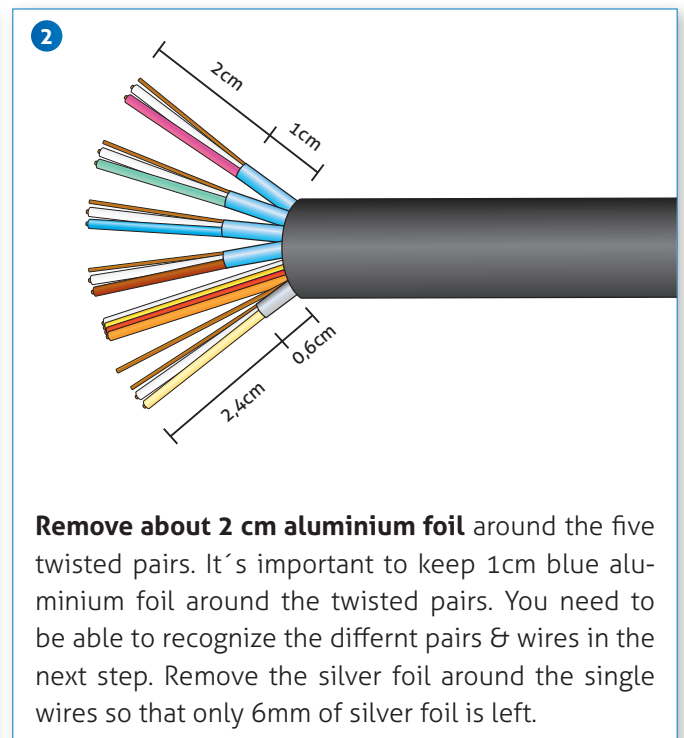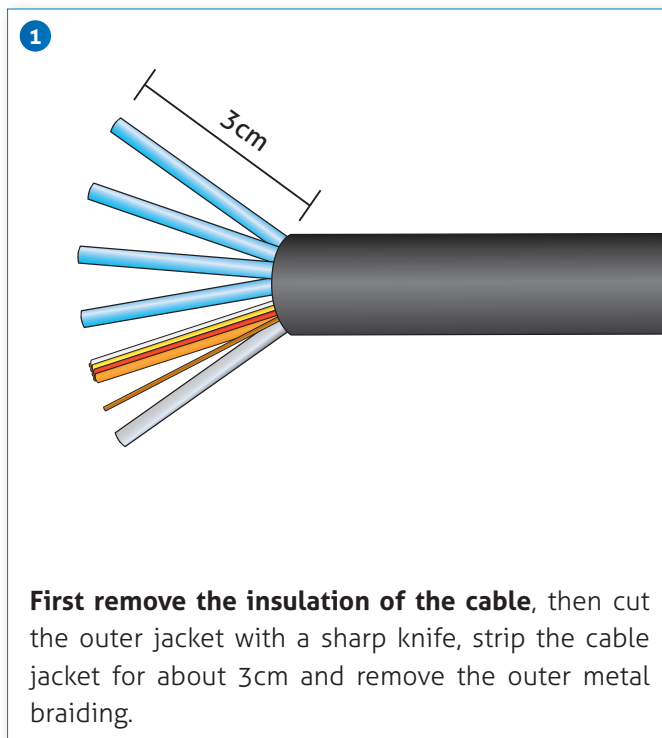ID-CAB-PURE
ID-CAB-ULTRA

1

K n o w - H o w .   Q u a l i t y .   D e s i g n .   I n n o v a t i o n   G e r m a n   E n t e r p r i s e s .

The PureLink HDMI Do-It-Yourself cables use a unique technology for manufacturing your own HDMI cables. The HDMI cable consists of 5 twisted pairs, 4 separate wires and a drain wire, used for grounding. The four blue colored pairs are meant for transmission of TMDS signals, the twisted pair with silver aluminium foil is for Ethernet (HEAC) and Audio Return Channel (ARC). Our compatible cables are "ID-CAB-PURE" and "ID-CAB-ULTRA". All parts needed for manufaturing are included in our starter-kit "ID-STARTER" or available separately.
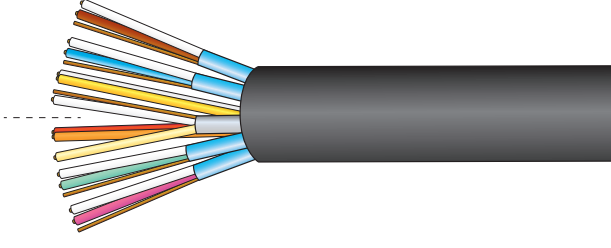
Step 1
Prepare The Cable

First remove the insulation of the cable, then cut the outer jacket with a sharp knife, strip the cable jacket for about 3cm and remove the outer metal braiding.

Remove about 2 cm aluminium foil around the five twisted pairs. It´s important to keep 1cm blue aluminium foil around the twisted pairs. You need to be able to recognize the differnt pairs & wires in the next step. Remove the silver foil around the single wires so that only 6mm of silver foil is left.

2

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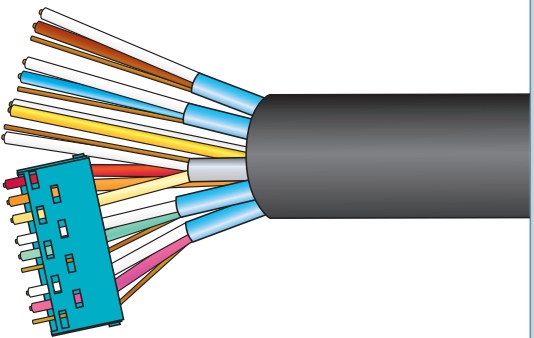
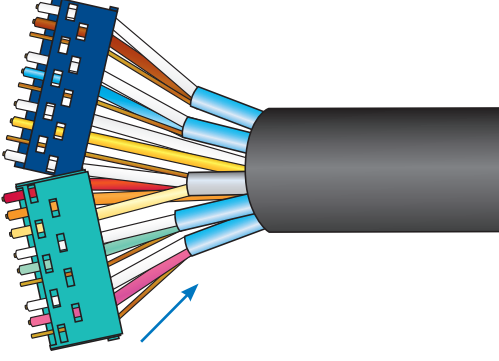## Step 2
Insert Wires

1

Arrange the wires for the green 9-hole cableholder, like shown in the pin-assignment table on page 4. Pay Close attention: Mis-wiring (also of the twisted pairs!) will lead to product failure and/or total blackout. Therefore it's **VERY IMPORTANT** to a ensure the right assignment of all wires.

2

**Insert the wires into the green holder.** Check the position with the assignment chart.

3

Repeat these steps for the blue 10-pin holder. After completing this step, slide the holders against the foil wrapping so they are on top of each other and align them to fit the compression guide.

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3

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Pin assignment

Pins	2	4	6	8	10	12	14	16	18
Wire Color	Twisted Pair with Red Wire			Twisted Pair with Green Wire			Yellow/Brown of Silver Twisted Pair	Orange	Red
	Drain	Pink	White	Drain	Green	White			
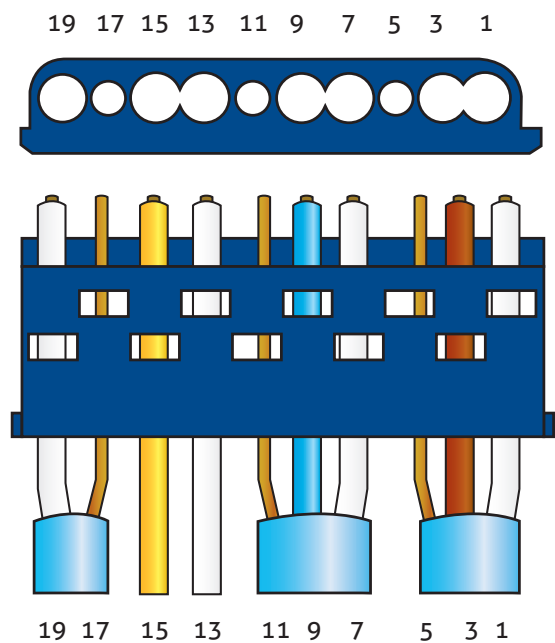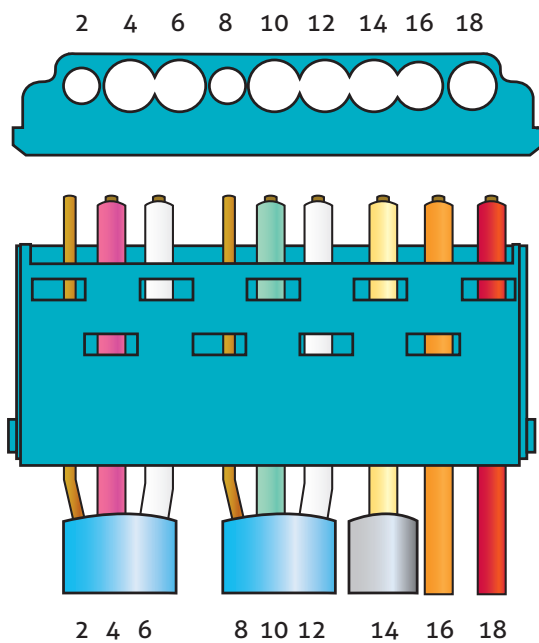
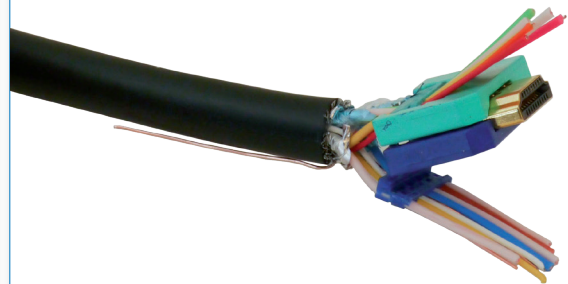| Pins	19	17	15	13	11	9	7	5	3	1
Wire Color	Silver Twisted Pair		Yellow	White	Twisted Pair with Blue Wire			Twisted Pair with Brown Wire		
	White	Drain			Drain	Blue	White	Drain	Brown	White

Step 3
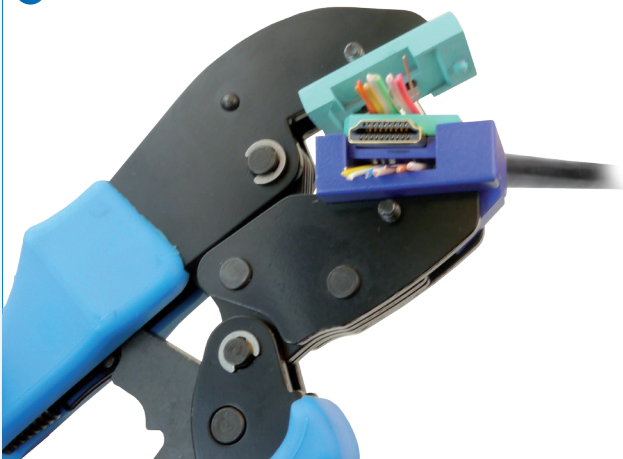### Connect the Cable to Connector

1
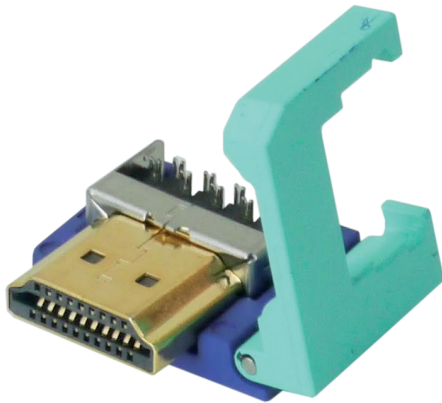
Place the HDMI connector into the compression guide.

2

Push the blue an green holder into the compression guide. The blue 10-pin holder is for the wide 10-pin side of the connector. The green 9-pin holder is for the bottom narrow 9-pin side of the connector.
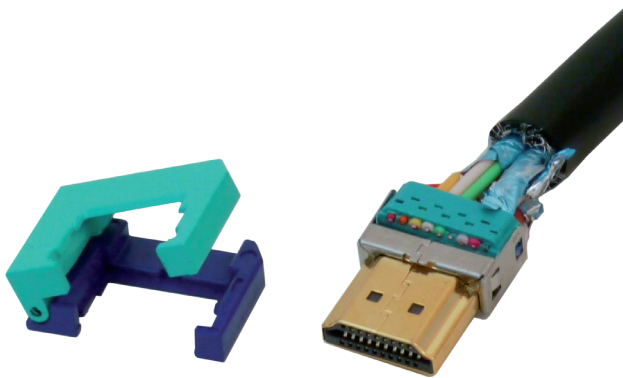
3

Use the assembly tool to attach the holder to the connector permanently. Fit the cable guides into the the compression guide. Make sure that the wire guides are on the same level and look into the same direction. Press the cable guides into your thumb compression guide until you hear a click. Use you thumb or a rounded non-metal tool for it. Compress the tool. Excessive wiring will be cut off automatically.
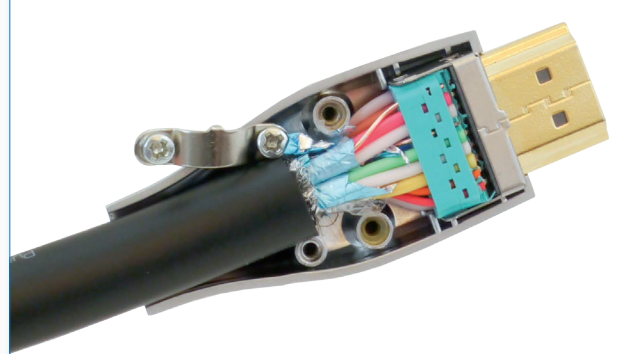
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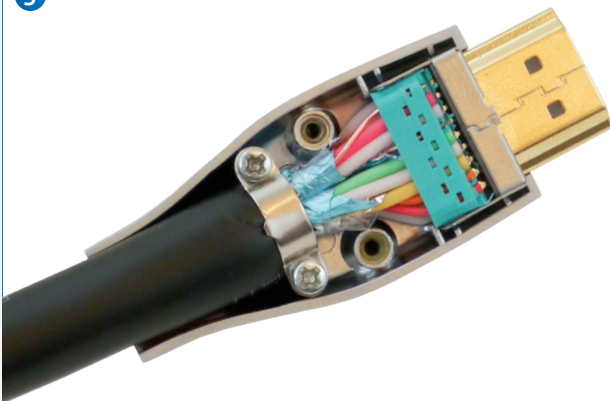
Schritt 4
Final Assembly

1

Remove the connector from the compression guide.

2

Place connector and cable inside the bottom half of the metal shell. The green holder is facing the top, as you can see.

3

Fasten the cable into the shell with the metal clip and attach the remaining drain wire under the clip. Cut off the drain wire 1cm behind the bridge.

4

Install the upper half of the metal shell and fix it using the available screws. Be sure to keep the wires away from the screwholes.

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Step 5: Test the Cable

With the mobile HDMI cable tester ID-HT-1 from PureLink you can test your HDMI connections fast and reliably on site. The cable tester is made for testing DIY cables. You can choose between two different test types: A single wire test or a "Loop-Test" for the simultaneous testing of all wires.

Additional Notes

This connector is designed solely for the use with appropriate PureLink HDMI cables. Using this connector with any other cables may result in failure or damage to your system. PureLink is not responsible for possible injuries, damage or misuse of the product.

If you have any further questions regarding the install process, use or maintenance of your installation, please contact us.

Send an E-Mail to: **info@purelink.de**

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