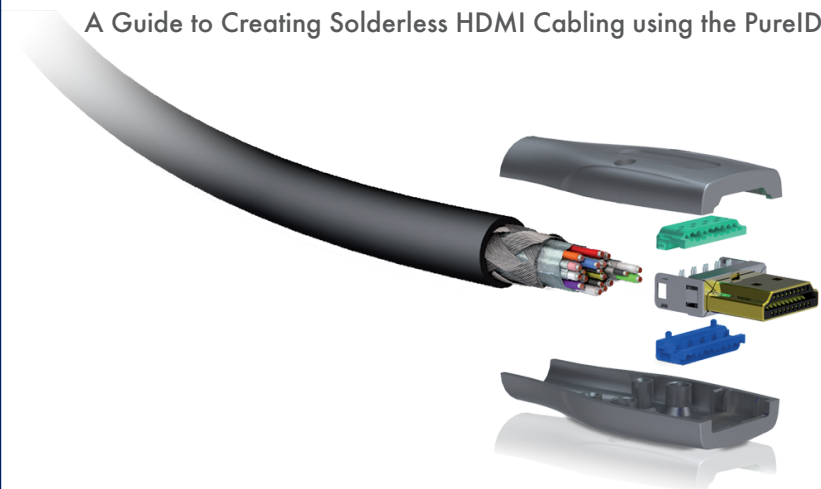![PureLink digital solutions]

PureID SERIES HDMI DIY CABLE

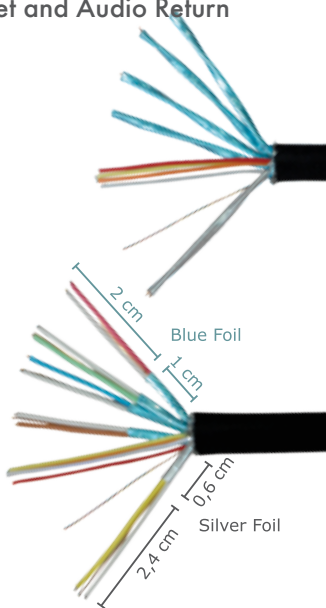A Guide to Creating Solderless HDMI Cabling using the PureID Series products.

The PureLink HDMI Do-It-Yourself Cable is a unique technology for creating your own HDMI cable.

The HDMI cable consists out of **5 twisted pairs, 4 separate wires + drain wire** (used for grounding). The twisted pairs are surrounded by aluminium foil. (4 blue and one silver).

The four blue colored pairs are meant for Transition Minimized Differential Signaling (TMDS), the twisted pair with silver aluminium foil is for Ethernet and Audio Return Channel (HEAC).
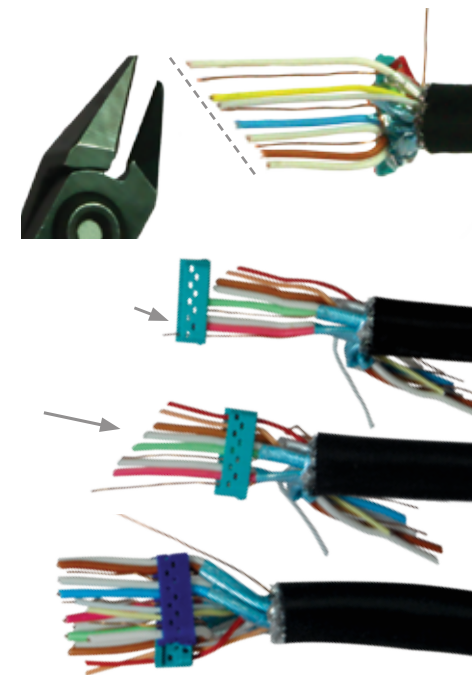
STEP 1: Prepare The Cable

❶ **Strip the cable jacket** for about 3 cm and remove the outer metal braiding.

❷ **Remove about 2 cm aluminium foil** around the five twisted pairs. It´s important to keep 1 cm 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 so that only 6mm of silver foil is left.
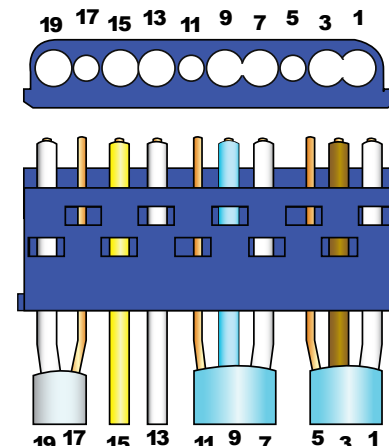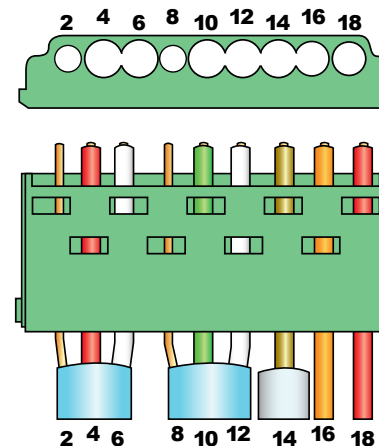

2 cm
1 cm
Blue Foil
0,6 cm
Silver Foil
2,4 cm

STEP 2: Insert Wires

❶ **Arrange the wires for the GREEN 9-hole cableholder,** like shown in the **pin-assignment table below.** Pay Close attention: Mis-wiring will lead to product failure!

❷ Hold the wires in the correct position and **cut them** at an angle for easy insertion.

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

❹ Repeat these steps for the **BLUE 10-Pin Holder.** After completing this step, keep the two holders in alignment. Slide them against the foil wrapping so they are on top of eachother.
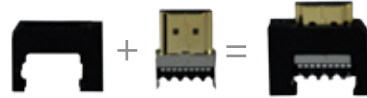

Pins	2	4	6	8	10	12	14	16	18
Wire Color	Twisted Pair with Red Wire			Twisted Pair with Green Wire			Yellow/Brown of Silver twisted pair	Orange	Red
	Drain	Red	White	Drain	Green	White			

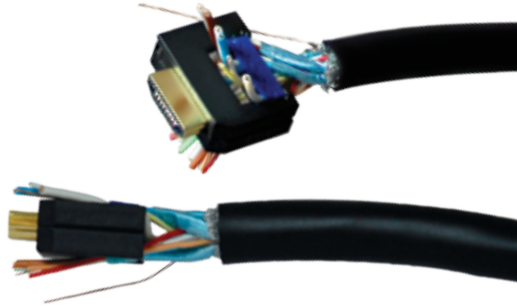| Pins	19	17	15	13	11	9	7	5	3	1
Wire Color	Silver Twisted Pair		Yellow	White	Twisted Pair with Blue Wire			Twisted Pair w Brown Wire		
	White	Drain			Drain	Blue	White	Drain	Brown	White

STEP 3: Compress Cable to Connector

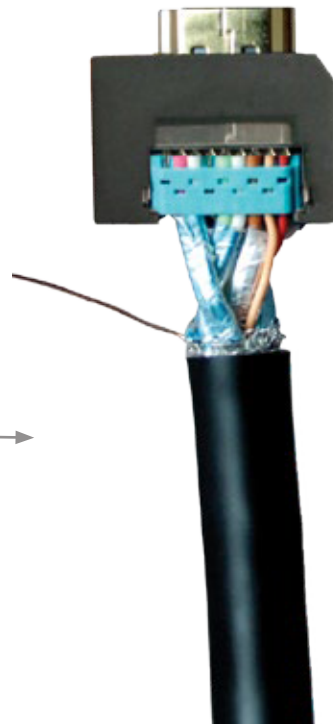❶ **Place the HDMI connector into the guiding jig** (the black piece).

❷ **Push the blue an green holder into the guiding jig.**
   - The 10-pin blue holder is for the wide 10-pin side of the connector.
   - The 9-pin green holder is for the bottom narrow 9-pin side of the connector.
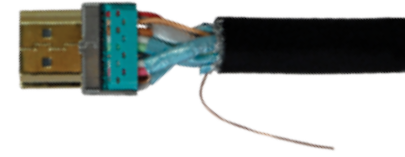
❸ **Use the assembly tool** to attach the holder to the connector permanently. Compress the tool. Excessive wiring will be cut off automatically. This process and its result are shown below.
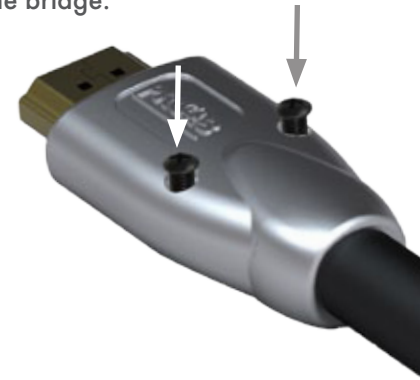
STEP 4: Final Assembly

❶ **Remove the connector from the black guiding jig.**

❷ **Place** the connecter + cable inside the **bottom half of the metal shell.** The Green holder is facing the top.

❸ **Fasten the cable** onto the shell with the metal belt and screw, but first attach the remaining drain wire **(Grounding)** under the belt. **Cut off the drain wire** 1cm after the bridge.

❹ Install the **upper half of the metal shell** and fix with the available screws. Be sure to keep the wires clear from the screwholes.

STEP 5: Test Cable

It is advised to **test the cable** with the PureLink ID-HT-1 HDMI Cable portable tester.

Additional Notes

This connector is only designed for use with appropriate PureLink HDMI cables.
Using this connector with any other cables may rsult in failure or damage your system.
PureLink is not respinsible for possible injury, damage or misuse of the product.
If you have any questions regarding the install process, use or maintenance of your installation, please contact support@purelink.de for further instructions.