

DDL-20 Duallink Twisted Pair Extender Instructions

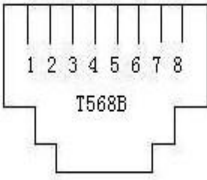
1. Instruction:

- ◆ The passive enhanced DDL-20 distance extension kit is the accessory for both transmitter and receiver.
- ◆ **Kit distinction:** the transmitter is marked with "Transmitter" and the relevant twisted pair connector is marked with "TX-1 and TX-2". The receiver is marked with "Receiver" and the relevant twisted pair connector is marked with "RX-1 and RX-2".
- ◆ Both the transmitter and the receiver can be powered by external power supply. If the transmission effect is less good, please charge on the TX and RX end (TX end is the prior recommendation).
- ◆ **Please use two same CAT.6 cables with same brand and model. The length difference is less than one meter.**

2. Specifications:

Item	Transmitter (T)	Receiver (R)
Maximum Resolution	3840×2160@30Hz , 4096×2160@24Hz	
Input TMDS Signal	1.2Vp-p	
Input DDC Signal	5Vp-p (TTL)	
Maximum Distance	100m (Using CAT.6 Cable)	
I/O Connector	DualLink (DVI Female)	
Connector	RJ45	
DC Offset	DC 5V 1A	DC 5V 1A
Product Weight	0.25KG	
Gross Weight	0.66KG	
Packing Size	65MM×52MM×27MM (L×W×H)	

3. RJ45 PIN & Wiring standard definition:

	RJ45		
	PIN	Color	Function
1	White-orange	TMDS DATA 2+	
2	Orange	TMDS DATA 2-	
3	White-green	TMDS CLOCK +	
4	Blue	TMDS DATA 1+	
5	White-blue	TMDS DATA 1-	
6	Green	TMDS CLOCK -	
7	White-brown	TMDS DATA 0+	
8	Brown	TMDS DATA 0-	

Note:

- 1) Make sure that the cable wiring order is the B class, which is orange-white, orange, green-white, blue, blue-white, green, brown-white, brown .

- 2) Please ensure the connection is fine before operating the signal source equipment (such as PC and edge blending processor).
- 3) Check if there's any loose for every connection, make sure they are well connected if the transmission distance is far away.

4. Transmission distance:

The transmission distance of using CAT.6 cable (With the different performance of display screen, PC and twisted pair cable, the maximum transmission distance may be slightly different.)

Resolution	Distance(m)	Resolution	Distance(m)
3840*2160	100	4096*2160	100
Downward compatible with multiple resolutions			

5. Connecting method:

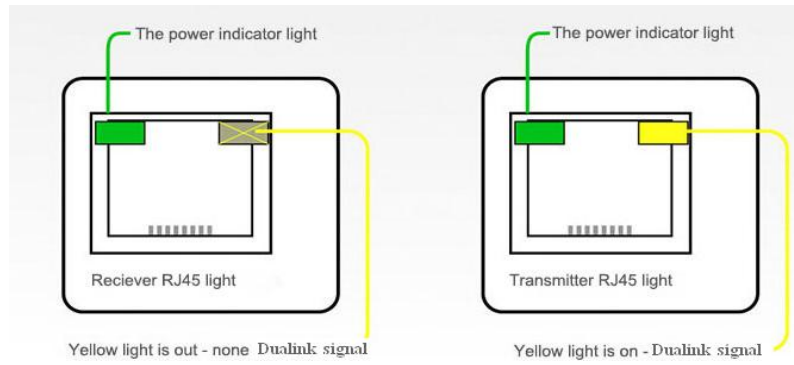
Connect the transmitter to the signal source through the Duallink patch cord. Then connect the receiver to the display device through Duallink patch cord as well. The transmitter (DLK-IN) and the receiver (DLK-OUT) are connected by two CAT.6 cables. Connect TX-1 to RX-1, TX-2 to RX-2 respectively. Details below:



DDL-20 transmitter connection



DDL-20 Receiver connection



Indicator light

6. Precautions:

- 1) DDL-20 does not support HDCP compliant.
- 2) Keep away from the equipment that can generate electromagnetic waves, such as microwave ovens, radio equipment, high voltage lines, etc.
- 3) Please use high quality CAT.6 cable. The performance of the twisted pair cable may affect the maximum transmission distance.
- 4) Network wiring cannot use STP wire or flat wire, otherwise it will result in no images.
- 5) Transmitter and receiver cannot be mixed, and need to be connected by rules. Otherwise it will result in no images.
- 6) During use please do not hot plug. Otherwise, the device will be damaged.