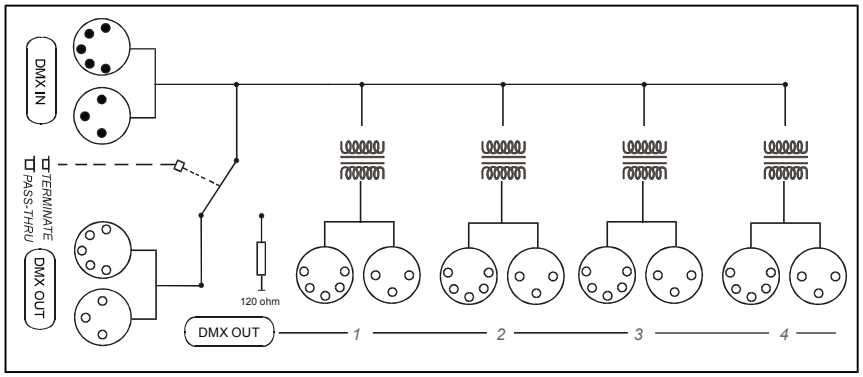
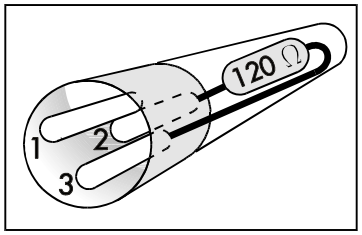
# AC-DMXSPLIT4

## 4-Way DMX512 Data Isolator and Distribution Amplifier

The AC-DMXSPLIT4 has One Input Port, 4 Optically Isolated Output Ports and user selectable Pass-Thru or Data-Termination. Except between the Input Port and Pass-Thru, each Port is electrically and optically isolated from the other Ports. All Ports have 3-pin and 5-pin connections, they are not isolated from each other and either the 3-pin or the 5-pin may be used but not both from a single port.
This unit amplifies the Input RS422/485 signal to the 4 Output Ports, it can't reconstruct the digital data. If the integrity of the input signal is degraded from interference or overloading, this may result in dirty or inconsistent data at the Output Ports and/or Pass-Thru. The maximum number of receiving units on a link is 32. In practice, the maximum number of fixtures per DMX 512 link will vary by: controller type, fixture types, cable type & length and EMI and RFI conditions.




The physical signals of DMX512 are transmitted using shielded twisted pair wire. The controller and all receiving equipment are connected using "Daisy Chain" connections. The signal is jumped from the controller to a piece of DMX equipment then jumped to the next piece of equipment and so on. No branching is allowed. The final piece of equipment will have a single cable connected. Depending on conditions and equipment, a line terminator may be required. Termination may improve data integrity but may also reduce the maximum number of devices and/or the maximum total length of cable that can be connected to a Port. A terminator can be made using a Male XLR connector and a 120-ohm resistor connected between Pins 2 & 3. When the AC-DMXSPLIT4 is the last piece of equipment on a link, the TERMINATE Switch can be used to enable termination for the Input link, the Pass-Thru Port is disabled.




**Data Pin Connections**

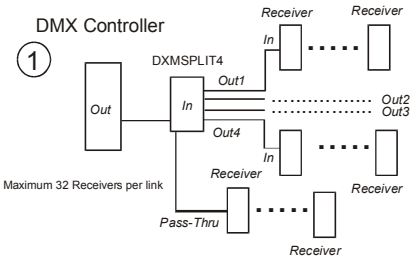
Pin 1 - Signal Common (Shield)
Pin 2 - Signal Data Negative
Pin 3 - Signal Data Positive
*Pin 4 - (not used)*
*Pin 5 - (not used)*

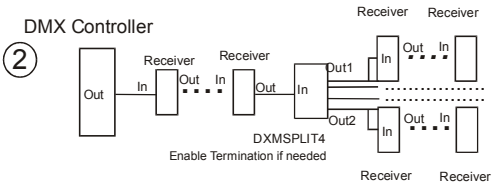
**Technical Specifications**

| | |
|---|---|
| Data Input | 1) 3-pin or 5-pin |
| Data Output | 4) 3-pin or 5-pin |
| Data Thru | 1) 3-pin or 5-pin |
| Termination | 120 ohms |
| Input Power | 120V 60Hz |
| Internal Fuses | 5) F500mA 5x20mm |
| Dimensions | 10.9"x6.8"x2.8" |
| Weight | 6.2 Lbs. |

DMX512 Standard, connections to equipment are specified to be made using 5-pin XLR connectors. However, it is common to see fixtures with a 3-pin XLR connector, as these types of cables are more common. In either case, pin numbers or connections are the same for 5-pin / 3-pin and Male / Female.

## Connection Diagrams:




This device must be connected to EARTH GROUND. Do not apply power before installation is complete. Always disconnect from mains before servicing. Do not expose to rain or moisture. No user serviceable parts inside, return to dealer for service.



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