

4X-A2D

76-1430-1 4X-A2D CONNECTOR KIT

Kit includes four 3-foot digital output jumper cables (to plug the 4X-A2D into any Harris/PR&E console) and the AMP MOD IV connector housings and receptacle contacts to make custom analog input and AES Sync Input cables.



INSTALLATION NOTES: READ ME FIRST!

General 4X-A2D installation information is included in the 71-1430 customer document. The PRE76-1430-1 kit adds four 3-foot digital output cables to plug the 4X-A2D outputs directly into most Harris studio products, along with AMP MOD IV housings and crimp pins for making up custom analog input cables.

An AMP MOD IV crimp tool (70-126) is required to make the analog input cables. This tool is supplied with most Harris/PR&E consoles and cardframes in a Harris Toolkit. To remove a MOD IV crimp terminal from a MOD IV housing requires using the 70-129 removal tool (which is also included in the Harris Toolkit).

Instructions on assembling MOD IV connectors is included in all Harris/PR&E console and cardframe manuals. If one is not available, Harris/PR&E manuals can be downloaded from: ftp.pre.com. The username is: customer. The password is: pacific.

INSTALLATION

-  **NOTE 1:** The 4X-A2D must be mounted so that its output cables are not under tension and so they can easily be unplugged for future service requirements.
-  **NOTE 2:** The 4X-A2D is factory set for +4 dBu balanced input signals. If unbalanced -10 dBV signals are connected, follow the instructions in the 71-1430 document to change internal switches before the mounting the unit.

1. Follow the mounting instructions, presented in the 71-1430 document, to install the 4X-A2D.
2. Connect the four 90-1433 cables between the outputs on the 4X-A2D and the console's digital inputs.
3. Construct four analog input cables following the information shown in the drawing, below.
4. Connect the analog input cables to the 4X-A2D.
5. Refer to the console manual for information on selecting the digital inputs to use the four signals connected to the 4X-A2D.

4X-A2D CABLE CONSTRUCTION

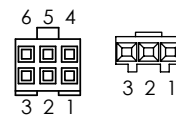


ANALOG CONNECTION TABLE

PIN	WIRE	SIGNAL	JACKET
1	SHIELD	GROUND	GRAY
2	BLACK	LEFT LOW (-)	
3	RED	LEFT HIGH (+)	
4	SHIELD	GROUND	RED
5	BLACK	RIGHT LOW (-)	
6	RED	RIGHT HIGH (+)	


DIGITAL CONNECTION TABLE

PIN	WIRE	SIGNAL	JACKET
1	NONE		BLACK
2	BLUE	LOW (-)	
3	WHITE	HIGH (+)	



MOD IV CONNECTOR PINOUTS, WIRE INSERTION END VIEW

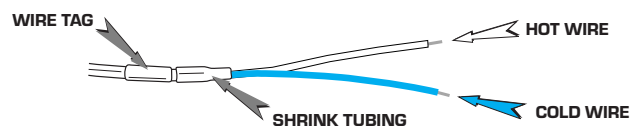
CABLE ASSEMBLY

 **NOTE:** Harris recommends using Belden 1504A wire or other balanced stereo zipped wire pair to simplify wiring. In this cable, the red wire is the hot/high/+ wire and the black wire is the cold/low/- wire.

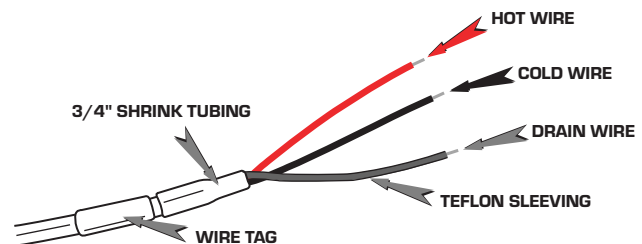
For digital signals, Quabbin 5100 (an unshielded twisted pair) can be used. In this cable, the white wire is the hot/high/+ wire and the blue wire is the cold/low/- wire.

1. Strip the cable jacket, insulation and any foil shield back about 1.5" [38.10mm].
2. After removing any foil shield, sleeve the drain wire using 20 AWG Teflon tubing. Leave about 9/64" [3.6mm] of the drain wire exposed.
3. Cover the cut end of the jacket and the end of the Teflon tubing with 3/4" [19.05 mm] of heat shrink tubing. Shrink the tubing over the jacket (it holds the drain wire sleeving).
4. Strip the two signal wires back about 9/64" [3.6mm].
5. Crimp receptacle contacts onto the wires on the 4X-A2D end, then insert the wires per the Connection Table.
6. Attach the appropriate connectors onto the peripheral device end of the cables, following prep steps 1 - 4 above.

Note: The 76-1340-2 kit includes nine pre-made 20-foot pigtail cables (all terminated in AMP MOD IV connectors for the 4X-A2D). Customer-supplied connectors are used to terminate the nine cables.



PREPED DIGITAL CABLE, READY FOR CONNECTION TO A CUSTOMER-SUPPLIED CONNECTOR



PREPED ANALOG CABLE, READY FOR CONNECTION TO A CUSTOMER-SUPPLIED CONNECTOR



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