

Field wiring to SNAP I/O modules is faster and easier using SNAP TEX cables and breakout boards. These charts show which part numbers can be used together. Also see form #1756, the *SNAP TEX Cables and Breakout Boards Data Sheet*.

**NOTE:** Find your module in the left column. Choose the breakout board from the right columns. Compatible cables are shown in the table cells in the center.

### SNAP 4-Channel Digital Modules

Module	Breakout Board		
	SNAP-TEX-32 **	SNAP-TEX-FB16-H SNAP-TEX-FB16-L	SNAP-TEX-MR10-4 SNAP-TEX-MR10-16 SNAP-TEX-MR10-16C
<b>Digital input modules—4-point</b>			
SNAP-IAC5 SNAP-IAC5A SNAP-IAC5AFM SNAP-IAC5FM SNAP-IAC5MA SNAP-IDC5MA	SNAP-TEX-CBS6 *	SNAP-TEX-CBS6 *	Not used for inputs
SNAP-IDC5 SNAP-IDC5-FAST-A SNAP-IDC5-HT SNAP-IDC5D SNAP-IDC5DFM SNAP-IDC5FAST SNAP-IDC5FM SNAP-IDC5G	SNAP-TEX-CBE6 SNAP-TEX-CBO6 SNAP-TEX-CBS6	SNAP-TEX-CBO6 SNAP-TEX-CBS6	Not used for inputs
SNAP-IDC5Q	SNAP-TEX-CBS6	Not used	Not used for inputs
SNAP-IDC5-SW SNAP-IDC5-SW-NC	SNAP-TEX-CBS6	Not used	Not used for inputs
<b>Digital output modules—4-point</b>			
SNAP-ODC5-I SNAP-ODC5-IFM SNAP-ODC5A-I SNAP-ODC5A-IFM SNAP-ODC5MA	SNAP-TEX-CBS6 *	SNAP-TEX-CBS6 *	SNAP-TEX-CBO6 SNAP-TEX-CBS6
SNAP-OAC5-I SNAP-OAC5-IFM SNAP-OAC5MA	SNAP-TEX-CBS6 *	SNAP-TEX-CBS6 *	Not used
SNAP-ODC5SRC SNAP-ODC5SRCFM	SNAP-TEX-CBO6 SNAP-TEX-CBS6	SNAP-TEX-CBO6 SNAP-TEX-CBS6	SNAP-TEX-CBO6 SNAP-TEX-CBS6
SNAP-OAC5 SNAP-OAC5FM SNAP-ODC5ASNK SNAP-ODC5R SNAP-ODC5R5 SNAP-ODC5R5FM SNAP-ODC5RFM SNAP-ODC5SNK SNAP-ODC5SNKFM	SNAP-TEX-CBE6 SNAP-TEX-CBO6 SNAP-TEX-CBS6	SNAP-TEX-CBO6 SNAP-TEX-CBS6	Not used
SNAP-OMR6T-C SNAP-OMR6-C	Not used	Not used	Not used

\* This cable maintains channel-to-channel isolation on these modules. If channel-to-channel isolation is not important, you can also use the SNAP-TEX-CBO6 cable.

\*\* The SNAP-TEX-32 can be used with digital outputs but has no fuses. SNAP-TEX-FB16 boards are preferable for digital outputs because they include fuses.

### SNAP 1-, 2-, and 4-Channel Analog Modules

Module		Breakout Board		
		SNAP-TEX-32	SNAP-TEX-FB16-H SNAP-TEX-FB16-L	SNAP-TEX-MR10-4 SNAP-TEX-MR10-16 SNAP-TEX-MR10-16C
<b>Analog input modules (not thermocouples)</b>				
SNAP-AIARMS SNAP-AIARMS-i SNAP-AIARMS-i-FM SNAP-AICTD SNAP-AICTD-4 SNAP-AILC <sup>a</sup> SNAP-AILC-2 <sup>a</sup> SNAP-AIMA-i SNAP-AIMA-iSRC <sup>a</sup> SNAP-AIMA-iSRC-FM <sup>a</sup> SNAP-AIMA-iH SNAP-AIMA2-i	SNAP-AIRATE SNAP-AIRATE-HFi SNAP-AIRTD SNAP-AIRTD-10 SNAP-AIRTD-1K SNAP-AIV-72 SNAP-AIV-i SNAP-AIV2-i SNAP-AIVRMS SNAP-AIVRMS-i SNAP-AIVRMS-i-FM	SNAP-TEX-CBS6	Not used for analog modules	
SNAP-AIMA SNAP-AIMA-4 SNAP-AIMV2-4 SNAP-AIMV-4	SNAP-AIR40K-4 SNAP-AIV SNAP-AIV-4	SNAP-TEX-CBE6 SNAP-TEX-CBS6	Not used for analog modules	
SNAP-AIPM SNAP-AIPM-3 <sup>b</sup> SNAP-AIPM-3V SNAP-AIR400K-8 SNAP-AITM <sup>c</sup>	SNAP-AITM-i <sup>c</sup> SNAP-AITM-2 <sup>c</sup> SNAP-AITM-4i <sup>c</sup> SNAP-AITM2-i <sup>c</sup> SNAP-pH/ORP	No cable available	Not used for analog modules	
<b>Analog output modules</b>				
SNAP-AOA-23	SNAP-AOA-28	SNAP-TEX-CBE6 SNAP-TEX-CBS6	Not used for analog modules	
SNAP-AOA-3	SNAP-AOV-5	SNAP-TEX-CBE6 SNAP-TEX-CBO6 SNAP-TEX-CBS6	Not used for analog modules	
SNAP-AOV-25	SNAP-AOV-27	SNAP-TEX-CBO6	Not used for analog modules	
SNAP-AOA-23-iH SNAP-AOA-23-iSRC <sup>a</sup> SNAP-AOA-23-iSRC-FM <sup>a</sup>	SNAP-AOD-29 SNAP-AOD-29-HFi	SNAP-TEX-CBS6	Not used for analog modules	

<sup>a</sup> Note that the SNAP-TEX-SBS6 cable does not include a connector for the 2-pin terminal on top of these modules, required for excitation voltage.

<sup>b</sup> Not recommended for use with breakout boards due to CT safety concerns.

<sup>c</sup> Do not use breakout boards with thermocouples.

### SNAP High-Density Digital Modules

Module	Breakout Board							Without a breakout board
	SNAP-TEX-32	SNAP-TEX-FB16-H SNAP-TEX-FB16-L	SNAP-TEX-MR10-4 SNAP-TEX-MR10-16 SNAP-TEX-MR10-16C	SNAP-IDC-HDB SNAP-IDC-HDB-FM	SNAP-ODC-HDB SNAP-ODC-HDB-FM	SNAP-UDC-HDB	SNAP-UDC-HDB-G4	
SNAP-IAC-16 SNAP-IAC-A-16 SNAP-IAC-K-16 SNAP-IDC-16 SNAP-IDC-HT-16	SNAP-HD-ACF6 (2 modules/ board)	SNAP-HD-ACF6	Not used with inputs	Not used	Not used	Not used	Not used	SNAP-HD-ACF6
SNAP-IDC-32 SNAP-IDC-32-FM SNAP-IDC-32D	SNAP-HD-CBF6	SNAP-HD-CBF6 (2 boards/ module)	Not used with inputs	SNAP-HD-BF6	Not used	SNAP-HD-BF6	Not used	SNAP-HD-CBF6
SNAP-IDC-32N SNAP-IDC-32DN							SNAP-HD-BF6	
SNAP-ODC-32-SNK SNAP-ODC-32-SNK-FM	SNAP-HD-CBF6	SNAP-HD-CBF6 (2 boards/ module)	Do not use	Not used	SNAP-HD-BF6	SNAP-HD-BF6	SNAP-HD-BF6	SNAP-HD-CBF6
SNAP-ODC-32-SRC SNAP-ODC-32-SRC-FM			SNAP-HD-CBF6 SNAP-HD-G4F6 (MR10-16C only)	Not used			Not used	

### SNAP Analog Modules with More Than 4 Channels

Module	Breakout Board			Without a breakout board	
	SNAP-TEX-32	SNAP-TEX-FB16-H SNAP-TEX-FB16-L SNAP-TEX-MR10-4 SNAP-TEX-MR10-16 SNAP-TEX-MR10-16C SNAP-IDC-HDB SNAP-IDC-HDB-FM SNAP-ODC-HDB SNAP-ODC-HDB-FM	SNAP-AIMA-HDB SNAP-AIMA-HDB-FM		SNAP-AIV-HDB SNAP-AIV-HDB-FM
SNAP-AICTD-8 SNAP-AIMA-8 SNAP-AIRTD-8U SNAP-AITM-8 ** SNAP-AITM-8-FM ** SNAP-AIV-8	Can be used; no cable currently available	Not used with analog modules	Not used		No cable available
SNAP-AIMA-32 SNAP-AIMA-32-FM	Not recommended		SNAP-HD-BF6	SNAP-HD-BF6*	Not recommended
SNAP-AIV-32 SNAP-AIV-32-FM	SNAP-HD-CBF6		Not used	SNAP-HD-BF6	SNAP-HD-CBF6
SNAP-AOVA-8	SNAP-HD-20F6		Not used		SNAP-HD-20F6

\* For specific applications. See details in wiring diagrams.

\*\* Do not use breakout boards with thermocouples.