INTRODUCTION

These cables are used with SNAP I/O digital or analog modules with 4 points or less.

- SNAP-TEX-CBE6—Even pins connected
- SNAP-TEX-CBO6—Odd pins connected
- SNAP-TEX-CBS6—Straight-through cable; no connections

See form #1756, the SNAP TEX Cables and Breakout Boards Data Sheet, to determine **compatible modules and breakout boards**. The data sheet is available on our website, www.opto22.com. The easiest way to find it is to search on the form number (1756).

NOTE: Do not use the SNAP-TEX-CBE6 cable with a SNAP-TEX-FB16-H or SNAP-TEX-FB16-L breakout board. The cable has even pins connected; the board has odd pins connected.

Installing the Cable

- 1. Determine the correct cable and breakout board to use with your module by checking the tables in form #1756.
- 2. At the top of the module, remove the existing field connector by pulling the holder away from it.
- **3.** Insert the cable's white connector into the top of the module until it snaps into place.



4. Insert the flying leads on the cable into the spring connectors on the breakout board as shown in the table.



Wire Colors

Point	Pin	Color wire
0	1	black
	2	red
1	3	blue
	4	orange
2	5	yellow
2		brown
3	7	red/black
	blue/black	

For Help

If you have difficulty wiring or using SNAP TEX cables and cannot find the information you need on our website, contact Opto 22 Product Support:

- Email: support@opto22.com
- Phone: 951-695-3080 or 800-835-6786



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More about Opto 22

PRODUCTS

Opto 22 develops and manufactures reliable, easy-to-use, open

standards-based hardware and software products. Industrial automation, process control, remote monitoring, data acquisition, and industrial internet of things (IIoT) applications worldwide all rely on Opto 22.

groov RIO[®]

groov RIO edge I/O offers a single, compact, PoE-powered industrial package with webbased configuration and IIoT software built in, support for multiple OT and IT protocols, and security features like a device firewall, data encryption, and user account control.

Standing alone, groov RIO connects to sensors, equipment, and legacy systems, collecting and securely publishing data from field to cloud. Choose a universal I/O model with thousands of possible field I/O configurations, with or without Ignition from Inductive Automation®, or a RIO EMU energy monitoring unit that reports 64 energy data values from 3-phase loads up to 600 VAC, Delta or Wye.

You can even write an IEC 61131-3 compliant control program to run on groov RIO, using CODESYS. You can also use groov RIO with a Modbus/TCP master or as remote I/O for a groov EPIC system.

groov EPIC[®] System

Opto 22's groov Edge Programmable Industrial Controller (EPIC)

system gives you industrially hardened control with a flexible Linux®based processor with gateway functions, guaranteed-for-life I/O, and software for your automation and IIoT applications.

groov EPIC Processor

The heart of the system is the groov EPIC processor. It handles a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

In addition, the EPIC provides secure data communications among physical assets, control systems, software applications, and online services, both on premises and in the cloud. No industrial PC needed.

Configuring and troubleshooting I/O and networking is easier with the EPIC's integrated high-resolution color touchscreen. Authorized users can manage the system locally on the touchscreen, on a monitor connected via the HDMI or USB ports, or on a PC or mobile device with a web browser.

groov EPIC I/O

groov I/O connects locally to sensors and equipment. Modules have a spring-clamp terminal strip, integrated wireway, swing-away cover, and LEDs indicating module health and discrete channel status. groov I/O is hot swappable, UL Hazardous Locations approved, and ATEX compliant.

groov EPIC Software

The groov EPIC processor comes ready to run the software you need:

- Programming: Choose flowchart-based PAC Control, CODESYS Development System for IEC61131-3 compliant programs, or secure shell access (SSH) to the Linux OS for custom applications
- Node-RED for creating simple IIoT logic flows from pre-built nodes
- Efficient MQTT data communications with string or Sparkplug data formats
- Multiple OPC UA server options
- HMI: groov View to build your own HMI viewable on touchscreen, PCs, and mobile devices; PAC Display for a

Windows HMI; Node-RED dashboard UI

Ignition or Ignition Edge® from Inductive Automation (requires • license purchase) with OPC-UA drivers to Allen-Bradley®, Siemens®, and other control systems, and MQTT communications

Older products

From solid state relays, to world-famous G4 and SNAP I/O, to SNAP PAC controllers, older Opto 22 products are still supported and working hard at thousands of installations worldwide. You can count on us for the reliability and service you expect, now and in the future.

OUALITY

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California.

Because we test each product twice before it leaves our factory rather than testing a sample of each batch, we can afford to guarantee most solid-state relays and optically isolated I/O modules for life.

FREE PRODUCT SUPPORT

Opto 22's California-based Product Support Group offers free technical support for Opto 22 products from engineers with decades of training and experience. Support is available in English and Spanish by phone or email, Monday-Friday, 7 a.m. to 5 p.m. PST.

Support is always available on our website, including free online training at OptoU, how-to videos, user's guides, the Opto 22 KnowledgeBase, and OptoForums.

PURCHASING OPTO 22 PRODUCTS

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 (toll-free in the U.S. and Canada) or +1-951-695-3000, or visit our website at www.opto22.com.

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