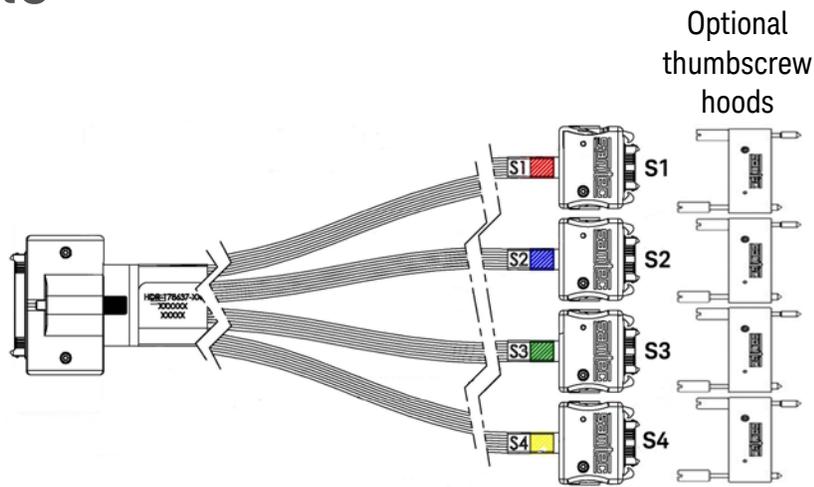


# Keysight Y1248A and Y1249A Multi-Site Signal Cable

Keysight's Y1248A and Y1249A Multi-Site Signal Cables are the same cable but different lengths. The Y1248A cable is 1 meter long and the Y1249A cable is 2 meters long. These cables separate the M9195A/B signals into four independent partitions (banks) for multi-site testing. Each partition contains a 20-pin Edge Rate connector with squeeze latch, four signal lines, four PMU sense lines, one high voltage, and one open drain line. Each cable includes a set of four alternate thumb screw hoods.



Refer to the M9195A/B Startup Guide and User Guide for detailed information on using the various signal lines.

## General Use Recommendations

Keysight recommends that you use one of the following three Samtec<sup>1</sup> 20-pin mating connectors to mate with your Device Under Test (DUT) end connector on the cable:

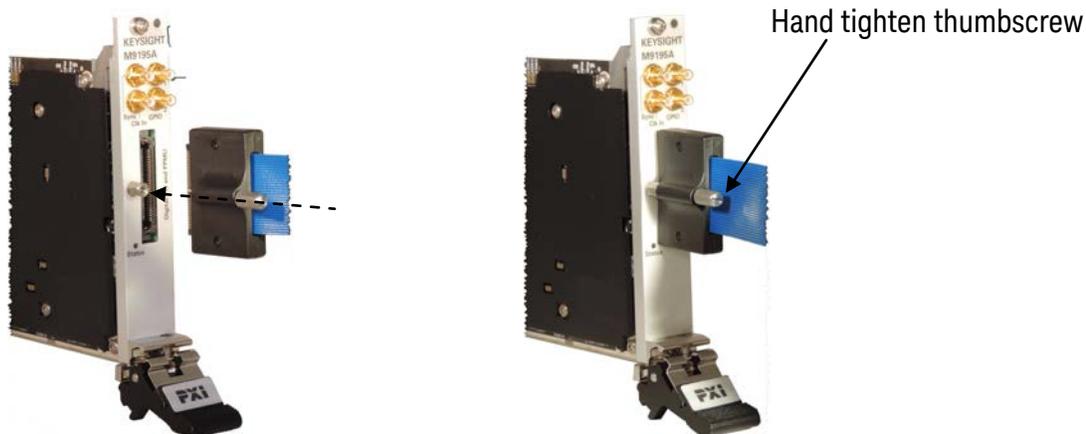
ERF8-010-01-L-D-RA-L-TR (right angle)

ERF8-010-01-L-D-EM2-TR (edge mount, for use on 0.062" thick PC boards)

ERF8-010-05.0-L-DV-L-TR (vertical mount)

## Installation and Removal of the Y1248A/Y1249A Cable

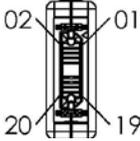
The end of the cable that connects to the M9195A/B has a single thumb screw on the hood. Connect the cable to the M9195A/B and then hand-tighten the thumb screw to the attached nut on the module. See the following photographs.



<sup>1</sup> Samtec, <http://www.samtec.com>

## Pinout of DUT Connector

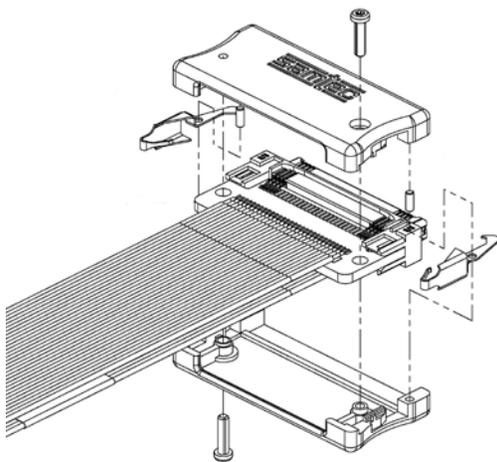
One end of this cable plugs onto the M9195A/B front panel connector. The other end is available to connect to your Device Under Test (DUT). The following table and graphic are provided to help you in connecting to your DUT.

S1 Red	S2 Blue	S3 Green	S4 Yellow	Pin #		Pin #	S4 Yellow	S3 Green	S2 Blue	S1 Red
Ch 04	Ch 08	Ch 12	Ch 16	2		1	Gnd	Gnd	Gnd	Gnd
Gnd	Gnd	Gnd	Gnd	4		3	Ch 13	Ch 09	Ch 05	Ch 01
Ch 02	Ch 06	Ch 10	Ch 14	6		5	Gnd	Gnd	Gnd	Gnd
Gnd	Gnd	Gnd	Gnd	8		7	Ch 15	Ch 11	Ch 07	Ch 03
GND_Sense				10		9	Gnd	Gnd	Gnd	Gnd
Gnd	Gnd	Gnd	Gnd	12		11	HV23	HV22	HV21	HV20
OPEN DRAIN AUX. 0	OPEN DRAIN AUX. 1	OPEN DRAIN AUX. 2	OPEN DRAIN AUX. 3	14		13	OPEN DRAIN AUX. 3	OPEN DRAIN AUX. 2	OPEN DRAIN AUX. 1	OPEN DRAIN AUX. 1
Gnd	Gnd	Gnd	Gnd	16		15	Gnd	Gnd	Gnd	Gnd
PPMU SENSE02	PPMU SENSE06	PPMU SENSE10	PPMU SENSE14	18		17	PPMU SENSE15	PPMU SENSE11	PPMU SENSE07	PPMU SENSE03
PPMU SENSE01	PPMU SENSE05	PPMU SENSE09	PPMU SENSE13	20	19	PPMU SENSE16	PPMU SENSE12	PPMU SENSE08	PPMU SENSE04	

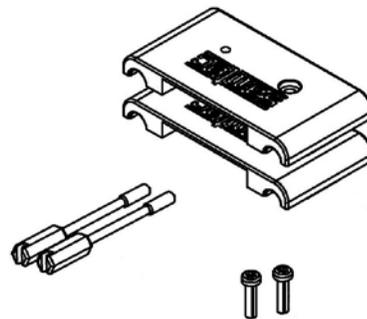
## Installation and Removal of the Alternate Thumbscrew Hood

The alternate hood uses thumb screws to retain the cable to the DUT rather than the squeeze latches of the original hood. To use the alternate hood on the DUT end of the cable, the old hood must first be removed. The following graphic shows how to disassemble and remove the original hood. Retain all of the pieces in case you should need to reuse the original hood in the future.

Disassembly of original hood:

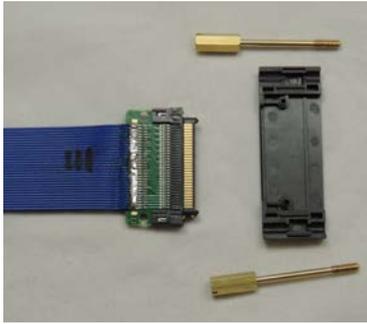


The alternate thumb screw hood consists of six pieces:

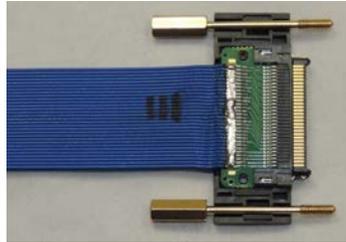


To assemble the alternate hood over the cable connector:

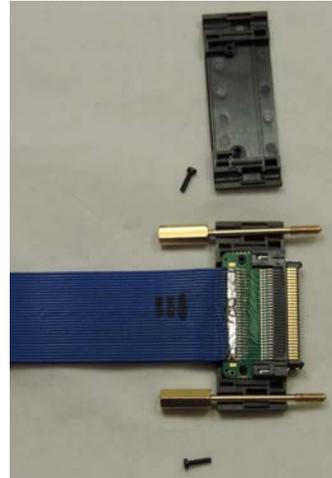
Lay out the parts:



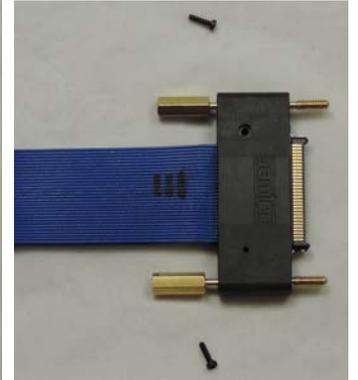
Lay the cable connector on the header. Make certain the holes in the connector mate with the holes in the header.



Place the thumbscrews in the header piece. Align the second header piece to match the bottom piece.



Make certain the top header piece snaps onto the bottom piece. Use the Torx T5 screws to secure the header pieces.



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