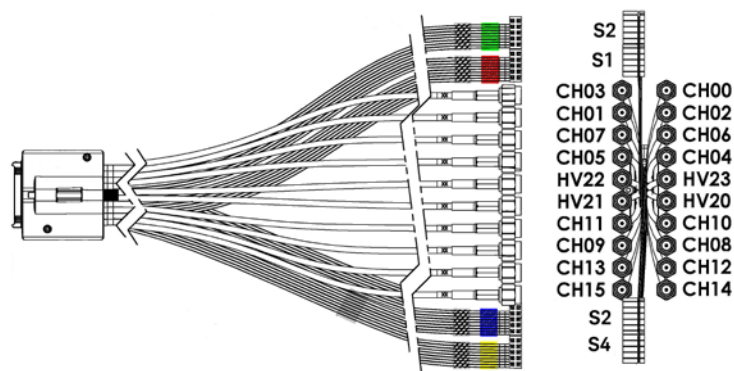


# Keysight Y1254A and Y1255A Breakout Cable

The Y1254A and Y1255A cables are the same cable but different lengths; the Y1254A cable is 1 meter long and the Y1255A cable is 2 meters long. These cables allow you to access individual signal pins for prototyping or debug using SMA connectors plus four header receptacles for low-speed signals. These cables accommodate both single and multi site usage. Refer to the M9195A/B Startup Guide and User Guide for detailed information on using the various signal lines.



Signal lines are grouped (by color) to indicate the bank of channels.

## General Use Recommendations

Keysight recommends that you use Samtec<sup>1</sup> part EJM-105-01-F-D-TH-10 shrouded ejector headers on your DUT. These headers mate to the header receptacles on this cable.

## Pinout of Header Receptacles (J2, J3, J4, J5)

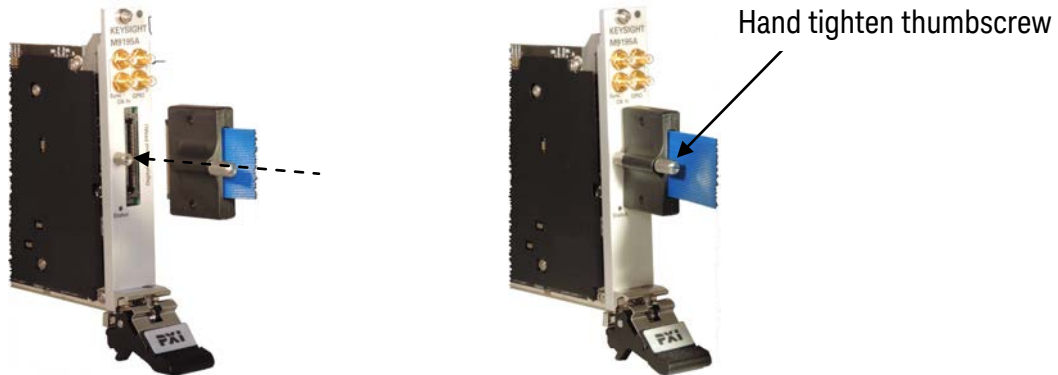
The four headers provide connection to the PPMU channel sense lines and the four relay driver lines. Refer to the following header diagram and table.

S4 Yellow	S3 Green	S2 Blue	S1 Red	Pin #		Pin #	S1 Red	S2 Blue	S3 Green	S4 Yellow
No connect	No connect	No connect	No connect	9		10	Key Plug	Key Plug	Key Plug	Key Plug
PPMU SENSE15	PPMU SENSE11	PPMU SENSE07	PPMU SENSE03	7		8	Gnd	Gnd	Gnd	Gnd
PPMU SENSE14	PPMU SENSE10	PPMU SENSE06	PPMU SENSE02	5		6	Gnd_Sense	Gnd_Sense	Gnd_Sense	Gnd_Sense
PPMU SENSE16	PPMU SENSE12	PPMU SENSE08	PPMU SENSE04	3		4	Open Drain Aux. 0	Open Drain Aux 1	Open Drain Aux 2	Open Drain Aux 3
PPMU SENSE13	PPMU SENSE09	PPMU SENSE05	PPMU SENSE01	1		2	Gnd	Gnd	Gnd	Gnd

<sup>1</sup> Samtec, [www.samtec.com](http://www.samtec.com)

## Installation and Removal of the Y1254A/Y1255A 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 hex standoff on the module. See the following photographs.



### Warranty

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This symbol represents the time period during which no hazardous or toxic substance elements are expected to leak or deteriorate during normal use. Forty years is the expected useful life of this product.

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First Edition, March 2016  
Printed in Malaysia



Y1254-90001  
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