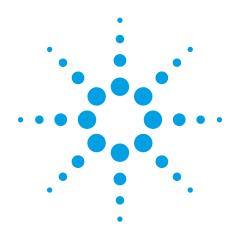
Agilent 11713B/C Attenuator/Switch Drivers

Configuration Guide





This configuration guide will assist you through the process of configuring a switching system using the Agilent 11713B/C attenuator/switch drivers.



Key Features

The 11713B attenuator/switch driver is a GPIB compatible instrument that concurrently drives up to two four-section programmable step attenuators and two microwave coaxial switches, or up to 10 SPDT switches². The 11713B is fully backward compatible with the 11713A in terms of functionality and fit. Connectivity using USB and LAN are optional.

The 11713C attenuator/switch driver is a GPIB/USB/LAN compatible instrument that concurrently drives up to four programmable step attenuators and four microwave coaxial switches, or up to 20 SPDT switches². The 11713C comes with tri-voltage selection of 5V, 15V and 24V and also permits user-defined voltage supply capability.

- Programming via GPIB/USB can be accomplished in simple one-line statements.
- Control the attenuator/switch drivers through LAN using a web-based interface.
- An integrated LCD display eases menu selection and instrument configuration.
- Inclusion of solenoid arc suppression diodes with three pre-defined common terminal supplies allow the instrument to be used with wide variety of attenuators and switches.

Key features	11713B	11713C
Manually-controlled using front panel push buttons	Yes	Yes
Automatically-control through:	Yes Optional Optional	Yes Yes Yes
Integrated LCD display	Yes	Yes
Self-contained power supply with current limiting	Yes	Yes
Common terminal supplies of +5 Vdc +15 Vdc +24 Vdc User-defined	No No Yes No	Yes Yes Yes Yes
TTL control	No	Yes

Note 1: 11713B/C attenuator/switch drivers output continuous current and do not support pulse drive. Please ensure your switching devices can withstand continuous current or have a built-in current interrupt feature.

Note 2: The amount of switches and attenuators that can be driven will depend on the type of switch configuration and attenuator section configuration.

The 11713C can drive twice as many devices as the 11713B; however, the total load current that can be consumed is still 1.7A.

Specifications

Drive power supply specifications

Specifications below describe warranted performance over the temperature range of 0 to 50 °C after one hour of continuous operation, unless otherwise noted.				
	+24 ± 8% Vdc			
Voltage	+5 ± 5% Vdc			
	+15 ± 12% Vdc			
	1.7 A maximum continuous current			
Current	Contact pairs 1 through 8, 9 and 0, maximum current of 0.7 A per contact			

Supplemental characteristics

Supplemental characteristics are intended to provide useful information and are typical but non-warranted performance parameters.				
Power	100 or 240 Vac, autommatic selection, 50/60 Hz			
rowei	100 VA maximum			
Dannana Airea	100 μs maximum for contact pairs 1 through 8			
Response time	20 ms maximum for contact pairs 9 and 0			
Driver life	2,000,000 switchings at 0.7 A for contact pairs 9 and 0			
Maximum load inductance	500 mH			
Maximum load capacitance < 0.01 μF for contact pairs 9 and 0				

Physical specifications

Net weight	3.2 kg (7.1 lbs)
Dimensions (H \times W \times D) with handle and rubber bumper	130 mm x 250 mm x 462 mm (5.1 inches x 9.8 inches x 18.2 inches)
Dimensions (H x W x D) without handle and rubber bumper	88 mm x 212 mm x 348 mm (3.5 inches x 8.5 inches x 13.7 inches)

Product Configurations

The 11713B/C attenuator/switch drivers can be configured easily. The connection between the driver and switching devices is intuitive and direct. Simply select the appropriate interface cable and you can make point-to-point connection from the driver to the attenuator(s) and/or switch(es). Details such as pin numbers and wires color are provided in the tables found in *Configuration Information for Switches* and *Configuration Information for Attenuators* sections.

Note 1: The maximum quantity orderable for each cable option is 9.

11713B		
Connectivity option	ıs	
Option STD		Standard configuration, full backward compatibility to 11713A
Option LXI		LXI Class-C configuration, additional USB/LAN connectivity, full backward compatibility to 11713A
Cable options	Part number	
Option 001	11764-60004	Viking connector to 10-pin DIP connector
Option 101	8120-2703	Viking connector to viking connector
Option 201	5061-0969	Viking connector to 12-pin conductor cable, bare wire
Option 301	11761-60001	Viking connector to 4 ribbon cables
Option 401	11713-60042	Dual-viking connector to 16-pin DIP connector
Option 501	11713-60043	Viking connector to (4) 9-pin Dsub connectors
Option 601	11713-60044	Viking connector to 16-pin DIP connector
Option 701	5064-7848	Viking connector to 14-pin DIP connector
Option 801	11713-60047	Viking connector to (4) 10-pin DIP connectors
Rack mount kit	Part number	
options (optional)		
Option 908	5063-9240	Rack mount kit for one instrument
Option 909	5061-9496	Rack mount kit for two instruments
	& 5063-9212	

11713C		
Cable options	Part number	
Option 001	11764-60004	Viking connector to 10-pin DIP connector
Option 101	8120-2703	Viking connector to viking connector
Option 201	5061-0969	Viking connector to 12-pin conductor cable, bare wire
Option 301	11761-60001	Viking connector to 4 ribbon cables
Option 401	11713-60042	Dual-viking connector to 16-pin DIP connector
Option 501	11713-60043	Viking connector to (4) 9-pin Dsub connectors
Option 601	11713-60044	Viking connector to 16-pin DIP connector
Option 701	5064-7848	Viking connector to 14-pin DIP connector
Option 801	11713-60047	Viking connector to (4) 10-pin DIP connectors
Rack mount kit	Part number	
options (optional)		
Option 908	5063-9240	Rack mount kit for one instrument
Option 909	5061-9496	Rack mount kit for two instruments
	& 5063-9212	

Cable and rack mount kit can be ord	Cable and rack mount kit can be ordered separately with the part numbers below.						
11713B-001/11713C-001	Viking connector to 10-pin DIP connector						
11713B-101/11713C-101	Viking connector to viking connector						
11713B-201/11713C-201	Viking connector to 12-pin conductor cable, bare wire						
11713B-301/11713C-301	Viking connector to 4 ribbon cables						
11713B-401/11713C-401	Dual-viking connector to 16-pin DIP connector						
11713B-501/11713C-501	Viking connector to (4) 9-pin Dsub connectors						
11713B-601/11713C-601	Viking connector to 16-pin DIP connector						
11713B-701/11713C-701	Viking connector to 14-pin DIP connector						
11713B-801/11713C-801	Viking connector to (4) 10-pin DIP connectors						
11713B-908/11713C-908	Rack mount kit for one instrument						
11713B-909/11713C-909	Rack mount kit for two instruments						

Five Simple Steps to Configure your Switching System

1. Determine the switching device's model and option (DC connector).

Example

Model: 87104A (SP4T switch)
Option: 100 (solder terminal)

Determine the attenuator/switch driver's model and option (interface cable).

Example

Model: 11713B

Option: 201 (Viking connector to 12-pin conductor cable, bare wire)

3 Use the selection guide, Table A (page 11) for switches and Table B (page 12) for attenuators, to determine which configuration table to use for further reference.

Example

Selection guide: Table A (for switches)

Configuration table: Table F-1

Table A: Selection guide for switches

Switch	Switch model	Switch		11713B/C							
family	number	option	Option 001	Option 101	Option 201	Option 301	Option 401	Option 501	Option 601	Option 701	Option 801
Bypass	8763A/B/C	No option			Table D-2						
	8764A/B/C	No option			Table D-3						
	N1811TL	202			Table 0-3						
	INTOTTIL	201						Table 0-4			
	N1812UL	202			Table 0-1						
	INTOTZUL	201						Table 0-2			
SPDT	8761A/B1	No option			Table C-1						
	8762A/B/C/F	No option			Table D-1						
	8765A/B/C/D/F	3xx			Table E-1						
	0/00A/B/G/D/F	3xx				Table E-2					
	N1810UL	202			Table 0-1						
	INTOTUUL	201						Table 0-2			
	N1810TL	202			Table 0-3						
	INTOTUTE	201						Table 0-4			
SP3T	8766K	016	Table J-1								
	0700K	060		Table J-2							
SP4T	87104A/B/C/D	100			Table F-1						
	0/104A/B/C/D	161							Table F-2		
	87204A/B/C	100			Table G-1						
	0/204A/D/C	161							Table G-2		

4. Configure your switching system using Table F-1 (page 16) as a reference.

Table F-1: Configuration of 11713B/C (Option 201) to 87104A/B/C/D, L7104A/B/C & L7204A/B/C SP4T switches (Option 100)

	From 1171	3B/C (Option 201)		T- 074040 /D /C /D 174040 /D /C 9 17	7204A /B /C /O-si 100\	
Front panel p	Front panel pushbutton Interface cable			To 87104A/B/C/D, L7104A/B/C & L7204A/B/C (Option 10		
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	
-	-	1 (VCC)	Red	1		
-	-	2 (GND)	White/Brown	15	-	
1	OFF	5	Violet	5	2 to C closed	
2	OFF	7	Black	7	3 to C closed	
3	OFF	9	Orange	11	5 to C closed	
4	OFF	11	Brown	13	6 to C closed	

5. Operate your system.

Table A: Selection guide for switches

Switch							11713B/C				
family	Switch model number	Switch option	Option 001	Option 101	Option 201	Option 301	Option 401	Option 501	Option 601	Option 701	Option 801
Bypass	07004 07000 07000	011/015/024			Table D-2						
2,5400	8763A, 8763B, 8763C	T15/T24			Table D-5						
	8764A, 8764B, 8764C	011/015/024			Table D-3						
	07017, 07012, 07010	T15/T24			Table D-6						
		202/403 201/403			Table 0-3			Table 0-4			
	N1811TL ²	202/401/403			Table 0-7			lable U-4			
		201/401/403			Table 0-7			Table 0-8			
		202/403			Table 0-1						
	N1812UL ²	201/403						Table 0-2			
	NIOIZUL	202/401/403			Table 0-5						
	07044 070451	201/401/403						Table 0-6			
SPDT	8761A, 8761B ¹ 8762A, 8762B, 8762C,	No option 011/015/024			Table C-1 Table D-1						
	8762F	T15/T24			Table D-1						
	8765A, 8765B, 8765C,	305/310/315/324			Table E-1						
	8765D, 8765F ³				TUDIO E 1	T-1-1- F 2					
	07030, 07031	005/010/015/024 202/403			Table 0-1	Table E-2					
		201/403			Table 0-1			Table 0-2			
	N1810UL ²	202/401/403			Table 0-5			Tubio O E			
		201/401/403						Table 0-6			
		202/403			Table 0-3						
	N1810TL ²	201/403						Table 0-4			
		202/401/403			Table 0-7			T.I. 0.0			
ODOT		201/401/403 016	Table I 1					Table 0-8			
SP3T	8766K		Table J-1	T-1-1- 1-2							
		060		Table J-2							
SP4T	87104A, 87104B,	100			Table F-1						
	87104C, 87104D	161							Table F-2		
	87204A, 87204B,	100			Table G-1						
	87204C	161							Table G-2		
	L7104A, L7104B,	100			Table F-1						
	L7104C	161							Table F-2		
	L7204A, L7204B,	100			Table F-1						
	L7204C, L7204B,	161							Table F-2		
	272010	016	Table J-1						1421011		
	8767K	060	Tubic 0 1	Table J-2							
	8767M		Table L	Table 0-2							
	0/0/IVI	No option									
SP5T	8768K	016	Table J-1								
		060		Table J-2							
	8768M	No option	Table L								
SP6T	87106A, 87106B,	100			Table H-1						
	87106C, 87106D	161					Table H-2				
	87206A, 87206B,	100			Table I-1						
	87206C	161					Table I-2				
	L7106A, L7106B,	100			Table H-1						
	L7106C	161					Table H-2				
	L7206A, L7206B,	100			Table H-1						
	L7206A, L7206B, L7206C	161					Table H-2				
	8769K	060		Table K			Table 11-2				
				Ianie K						Table NA	
	8769M	No option			T11 11 1					Table M	
Matrix	87406B	100			Table H-1						
		161					Table H-2				
	07606D	100			Table I-1						
	87606B	161					Table I-2				
Transfer	87222C, 87222D,	100			Table N-1	İ					
	87222E	161									Table N-2
		100			Table N-1						
	L7222C	161									Table N-2
		131									IGDIO IV Z

^{1.} Refer to Table C-2 if a cable with banana jacks is used to make a connection between 8761A/B and 11713B/C.

N1810UL/TL, N1811TL and N1812UL cannot withstand continuous current. Option 403 (current interrupt) is required
to protect the switches from damage due to overheating.

^{8. 8765}A/B/C/D/F require continuous current to latch. The number of switches for connection depends on option selection.

Switch Option Descriptions

011: 5 Vdc 015: 15 Vdc 024: 24 Vdc

T15: TTL/5V CMOS compatible logic with 15 Vdc supply T24: TTL/5V CMOS compatible logic with 24 Vdc supply

201: D-submini 9 pin (f)

202: Solder lug

401: TTL/5V CMOS compatible
305: 5 Vdc with solder terminals
310: 10 Vdc with solder terminals
315: 15 Vdc with solder terminals
324: 24 Vdc with solder terminals
005: 5 Vdc with 3-inch ribbon cable
010: 10 Vdc with 3-inch ribbon cable

016: 16-inch ribbon cables
060: Viking cable connector
100: Solder terminals
161: Ribbon receptacle

Table B: Selection guide for attenuators

Au	A	1171	13B/C	
Attenuator model number	Attenuator option	Option 001	Option 101	
04040 040411	016	Table P-1		
8494G, 8494H	060		Table P-2	
04050 040511	016	Table P-1		
8495G, 8495H	060		Table P-2	
04000 040011	016	Table P-1		
8496G, 8496H	060		Table P-2	
8495K	016	Table P-1		
0493K	060		Table P-2	
8497K	016	Table P-1		
0497K	060		Table P-2	
84904K, 84904L, 84904M	No option	Table Q		
84905M	No option	Table Q		
84906K, 84906L	No option	Table Q		
84907K, 84907L	No option	Table Q		
84908M	No option	Table Q		

Attenuator Option Description

Option 060: 12-pin Viking connector

Option 016: 16-inch ribbon cable with 14-pin DIP plug

Configuration Information for Switches

Note 1: Each table below illustrates the configuration of two switches to the 11713B/C.

Note 2: For 8761A, V = 15V.

Note 3: For 8761B, V = 24V.

Note 4: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table C-1: Configuration of 11713B/C (Option 201) to 8761A/B SPDT switches

From 11713B/C (Option 201)			To 8761A/B				
Front panel pus	hbutton	Interfac	e cable	10 8/0 IA/ B			
Switches	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
	OFF	Cable 1-3	Gray	<+>	2 to C closed		
9		Cable 1-4	White/Red	<->	Z to C closed	DUT 1	
9	ON	Cable 1-3	Gray	<+>	1 to C closed	DUT 1	
		Cable 1-4	White/Red	<->	1 to C closed		
	OFF	Cable 2-3	Gray	<+>	24-0-1		
•		Cable 2-4	White/Red	<->	2 to C closed	DUT 0	
0	ON	Cable 2-3	Gray	<+>	1. 0	DUT 2	
		Cable 2-4	White/Red	<->	1 to C closed		

Table C-2: Configuration of 11713B/C (any option) to 8761A/B SPDT switches

	From 1171	I3B/C (any option)			To 8761A/B			
Front panel pus	Front panel pushbutton Banana jack (rear panel)			10 0701A/ Б				
Switches	LED	Pin number	Voltage	Solder terminal number	RF path	Device under test (DUT)		
	OFF	S9-A	+V	<+>	2 to C closed			
9	UFF	S9-B	0	<->		DUT 1		
9	ON	S9-A	0	<+>	1 to C closed			
	UN	S9-B	+V	<->	1 to C closed			
	OFF	S0-A	+V	<+>	0. 0.1			
0	UFF	S0-B	0	<->	2 to C closed	DUT 2		
0	ON	S0-A	0	<+>	14-0-11			
	UN	S0-B	+V	<->	1 to C closed			

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 3: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table D-1: Configuration of 11713B/C (Option 201) to 8762A/B/C/F SPDT switches (Option 005/011/024)

F	rom 11713	B/C (Option 201)		To 8762A/B/C/F (Option 005/011/024)			
Front panel push	button	Interface	cable		10 8702A/B/C/F (Option 005/011/)	J24)	
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
-	_	1 (VCC)	Red	С	_	VCC for all 5 DUTs	
1	OFF	5	Violet	1	1 to C closed, 2 terminated	DUT 1	
'	ON	6	Yellow	2	2 to C closed, 1 terminated	5011	
2	OFF	7	Black	1	1 to C closed, 2 terminated	DUT 2	
2	ON	8	Green	2	2 to C closed, 1 terminated	5012	
3	OFF	9	Orange	1	1 to C closed, 2 terminated	DUT 3	
J	ON	10	Blue	2	2 to C closed, 1 terminated	5010	
4	OFF	11	Brown	1	1 to C closed, 2 terminated	DUT 4	
4	4 ON 12		White	2	2 to C closed, 1 terminated	3017	
9	OFF	4	Gray	1	1 to C closed, 2 terminated	DUT 5	
9	ON	3	White/Red	2	2 to C closed, 1 terminated]	

Table D-2: Configuration of 11713B/C (Option 201) to 8763A/B/C bypass switches (Option 005/011/024)

F	rom 11713	B/C (Option 201)		To 8763A/B/C (Option 005/011/024)			
Front panel push	button	Interface	cable		10 0703A/ D/ C (Option 003/011/ 02	,	
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
_	-	1 (VCC)	Red	С	_	VCC for all 5 DUTs	
1	OFF	5	Violet	1	1 to 2 closed, 3 to 4 closed	DUT 1	
'	ON	6	Yellow	2	1 terminated, 2 to 3 closed, 4 open]	
2	OFF	7	Black	1	1 to 2 closed, 3 to 4 closed	DUT 2	
2	ON	8	Green	2	1 terminated, 2 to 3 closed, 4 open	5012	
3	OFF	9	Orange	1	1 to 2 closed, 3 to 4 closed	DUT 3	
3	ON	10	Blue	2	1 terminated, 2 to 3 closed, 4 open	5010	
4	OFF	11	Brown	1	1 to 2 closed, 3 to 4 closed	DUT 4	
4	ON	12	White	2	1 terminated, 2 to 3 closed, 4 open	0014	
9	OFF		Gray	1	1 to 2 closed, 3 to 4 closed	DUT 5	
J	ON	3	White/Red	2	1 terminated, 2 to 3 closed, 4 open	טטוט	

Table D-3: Configuration of 11713B/C (Option 201) to 8764A/B/C bypass switches (Option 005/011/024)

F	rom 11713	B/C (Option 201)			To 8764A/B/C (Option 005/011/02	Δ)		
Front panel push	button	Interface	cable	10 01011/1 Β/ Ο (Ορασιί 003/ 011/ 024)				
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)		
-	-	1 (VCC)	Red	С	_	VCC for all 5 DUTs		
1	OFF	5	Violet	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 1		
'	ON	6	Yellow	2	1 to 2 closed, 3 to 4 closed, 5 open	DOLL		
2	OFF	7	Black	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 2		
2	ON	8	Green	2	1 to 2 closed, 3 to 4 closed, 5 open	0012		
3	OFF	9	Orange	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 3		
3	ON	10	Blue	2	1 to 2 closed, 3 to 4 closed, 5 open	0013		
4	OFF	11	Brown	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 4		
4	ON 12		White	2	1 to 2 closed, 3 to 4 closed, 5 open	DUI 4		
9	OFF	4	Gray	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 5		
ð	ON	3	White/Red	2	1 to 2 closed, 3 to 4 closed, 5 open			

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 3: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table D-4: Configuration of 11713B/C (Option 201) to 8762A/B/C/F SPDT switches (Option T15/T24)

F	rom 11713	B/C (Option 201)		To 8762A/B/C/F (Option T15/T24)			
Front Panel Push	button	Interface	Cable		10 8/02A/ B/ C/ F (Option 119/124)		
Attenuator X	LED	Viking Connector Pin Number	Bare Wire Color	Solder Terminal Number	RF Path	Device Under Test (DUT)	
_	_	1 (VCC)	Red	С	_	VCC for all 5 DUTs	
_	_	2 (GND)	White/Brown	2	_	GND for all 5 DUTs	
1	OFF	5	Violet	1	1 to C closed, 2 terminated	DUT 1	
'	ON	j j	violet	'	2 to C closed, 1 terminated	ווטע	
2	OFF	7	Black	1	1 to C closed, 2 terminated	DUT 2	
2	ON		Біаск	'	2 to C closed, 1 terminated]	
3	OFF	9	0,,,,,,,	1	1 to C closed, 2 terminated	DUT 0	
3	ON	9	Orange	ı	2 to C closed, 1 terminated	DUT 3	
4	OFF	11	Duarra	1	1 to C closed, 2 terminated	DUT 4	
4	ON	1 11	Brown	1	2 to C closed, 1 terminated	DUT 4	
9	OFF	4	Crov	1	1 to C closed, 2 terminated	DUT 5	
3	ON	4	Gray		2 to C closed, 1 terminated	2010	

Table D-5: Configuration of 11713B/C (Option 201) to 8763A/B/C bypass switches (Option T15/T24)

F	rom 11713	B/C (Option 201)		To 8763A/B/C (Option T15/T24)			
Front Panel Push	button	Interface	Cable		10 0700/0/ Д/ С (Сраса 110/ 121/		
Attenuator X	LED	Viking Connector Pin Number	Bare Wire Color	Solder Terminal Number	RF Path	Device Under Test (DUT)	
-	-	1 (VCC)	Red	С	_	VCC for all 5 DUTs	
-	_	2 (GND)	White/Brown	2	_	GND for all 5 DUTs	
1	OFF	OFF _	5 Violet	1	1 to 2 closed, 3 to 4 closed	DUT 1	
'	ON	j j	violet		1 terminated, 2 to 3 closed, 4 open	D011	
2	OFF	7 Black	Black 1	1 to 2 closed, 3 to 4 closed	DUT 2		
۷	ON	/	Біаск	ı	1 terminated, 2 to 3 closed, 4 open	DU12	
3	OFF	9	0	1	1 to 2 closed, 3 to 4 closed	DUT 3	
S	ON	9	Orange		1 terminated, 2 to 3 closed, 4 open	0013	
4	OFF	11	Brown	1	1 to 2 closed, 3 to 4 closed	DUT 4	
4 ON		11	Brown	Į.	1 terminated, 2 to 3 closed, 4 open	DUT 4	
9	OFF	4	A Crov	1	1 to 2 closed, 3 to 4 closed	DUT 5	
9	ON	4	Gray		1 terminated, 2 to 3 closed, 4 open] 5010	

Table D-6: Configuration of 11713B/C (Option 201) to 8764A/B/C bypass switches (Option T15/T24)

TUBIO B OI OC	iiiigait	telon of 117 loc	7 6 (Option	2017 to 070 171	7 B7 C Bypaco Civitolico (opuoli	1107 1217		
F	rom 11713	B/C (Option 201)		To 8764A/B/C (Option T15/T24)				
Front Panel Push	button	Interface	Cable	, , , , , , , , , , , , , , , , , , ,				
Attenuator X	LED	Viking Connector Pin Number	Bare Wire Color	Solder Terminal Number	RF Path	Device Under Test (DUT)		
-	-	1 (VCC)	Red	С	_	VCC for all 5 DUTs		
_	_	2 (GND)	White/Brown	2	_	GND for all 5 DUTs		
1	OFF	5	Violet	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 1		
'	ON	j j	violet	'	1 to 2 closed, 3 to 4 closed, 5 open	ווטע		
2	OFF	7 Dis-1	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 2			
۷	ON	/	Black	1	1 to 2 closed, 3 to 4 closed, 5 open	DUT 2		
3	OFF	9	Orongo	0	1 open, 2 to 3 closed, 4 to 5 closed	DUT 3		
S	ON	9	Orange	'	1 to 2 closed, 3 to 4 closed, 5 open	0013		
4	OFF	11 0	Brown	D 1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 4		
4 ON		11	DIOWII	'	1 to 2 closed, 3 to 4 closed, 5 open	4 الالا		
9	OFF	4	Gray	1	1 open, 2 to 3 closed, 4 to 5 closed	DUT 5		
9	ON	4	Giay		1 to 2 closed, 3 to 4 closed, 5 open] 5010		

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: Requires continuous current to latch. The number of switches available for connection depends on option selection.
- Note 3: Five switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 4: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page

Table E-1: Configuration of 11713B/C (Option 201) to 8765A/B/C/D/F SPDT switches (Options 3xx)

	From 117'	13B/C (Option 201)		To 87	65A/B/C/D/F (Option 305/	310/315/324)		
Front Panel Pus	Front Panel Pushbutton Interface Cable			10 070077 B7 07 B7 1 (option 3037 3107 3137 324)				
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)		
-	-	1 (VCC)	Red	2 and 3	-	VCC for all 5 DUTs		
1	OFF	5	Violet	1	2 to C closed, 1 open	DUT 1		
1	ON	6	Yellow	4	1 to C closed, 2 open	ווטע		
2	OFF	7	Black	1	2 to C closed, 1 open	DUT 2		
2	ON	8	Green	4	1 to C closed, 2 open	DUT 2		
3	OFF	9	Orange	1	2 to C closed, 1 open	DUT 3		
3	ON	10	Blue	4	1 to C closed, 2 open	ט וטע		
4	OFF 11		Brown	1	2 to C closed, 1 open	DUT 4		
4	ON	12	White	4	1 to C closed, 2 open	J DUI 4		
9	OFF	4	Gray	1	2 to C closed, 1 open	DUT 5		
3	ON	3	White/Red	4	1 to C closed, 2 open	2010		

Table E-2: Configuration of 11713B/C (Option 301) to 8765A/B/C/D/F SPDT switches (Options 0xx)

	From 117	13B/C (Option 301)		To 8765A/B/C/D/F (Option 005/010/015/024)				
Front panel push	Front panel pushbutton Interface cable			10 07 0077 D7 07 D7 1 (Option 0007 0107 0107 024)				
Attenuator X	LED	Viking connector pin number/ banana jack (rear panel)	5-pin receptacle pin number	Ribbon cable connector pin number	RF path	Device under test (DUT)		
_	-	1 (VCC)/VDC COM	3 and 4	3 and 4	_	VCC for all 5 DUTs		
1	OFF	5	1	1	2 to C closed, 1 open	DUT 1		
'	ON	6	5	5	1 to C closed, 2 open	ווטע		
2	OFF	7	1	1	2 to C closed, 1 open	DUT 2		
2	ON	8	5	5	1 to C closed, 2 open	DUT 2		
3	OFF	9	1	1	2 to C closed, 1 open	DUT 2		
3	ON	10	5	5	1 to C closed, 2 open	DUT 3		
4	OFF	11	1	1	2 to C closed, 1 open	DUT 4		
4 ON		12	5	5	1 to C closed, 2 open	שטו 4		
9	OFF	S9-A	_	1	2 to C closed, 1 open	DUT 5		
3	ON	S9-B	_	5	1 to C closed, 2 open	2310		

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: For switches with Option 161, ground pin 16 opens all paths. Use S9 for Attenuator X or S0 for Attenuator Y.*
 - * Do not close any path and ground pin 16 simultaneously as this makes the switch buzz.
- Note 3: For switches with Option 100, there are no solder terminals available to open all paths.
- Note 4: Solder terminal/DIP connector with pin numbers 6, 8, 12 & 14 provides indicator function.
- Note 5: Applies to both Option 024 (standard/non-TTL drive) and Option T24 (TTL drive).
- Note 6: One additional switch can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

Table F-1: Configuration of 11713B/C (Option 201) to 87104A/B/C/D, L7104A/B/C & L7204A/B/C SP4T switches (Option 100)

	From 1171	3B/C (Option 201)		To 87104A/B/C/D, L7104A/B/C & L7204A/B/C (Option 100)		
Front panel p	Front panel pushbutton Interface cable		10 6/104A/ D/ G/ D, L/104A/ D/ G & L/	/204A/ B/ C (Option 100)		
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	
-	-	1 (VCC)	Red	1	-	
_	_	2 (GND)	White/Brown	15	-	
1	OFF	5	Violet	5	2 to C closed	
2	OFF	7	Black	7	3 to C closed	
3	OFF	9	Orange	11	5 to C closed	
4	OFF	11	Brown	13	6 to C closed	

Table F-2: Configuration of 11713B/C (Option 601) to 87104A/B/C/D, L7104A/B/C & L7204A/B/C SP4T switches (Option 161)

	From 1171	3B/C (Option 601)		To 87104A/B/C/D, L7104A/B/C & L7204A/B/C (Option 161)
Front panel pushbutton Interface cable			ce cable	
Attenuator X	LED	Viking connector pin number	16-pin DIP pin number	RF path
_	-	1 (VCC)	1	-
_	-	2 (GND)	15	-
1	OFF	5	5	2 to C closed
2	OFF	7	7	3 to C closed
3	OFF	9	11	5 to C closed
4	OFF	11	13	6 to C closed

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: For switches with Option 161, ground pin 16 opens all paths. Use S9 for Attenuator X or S0 for Attenuator Y.*
 - * Do not close any path and ground pin 16 simultaneously as this makes the switch to buzz.
- Note 3: For switch with Option 100, no solder terminal available to open all paths.
- Note 4: Applies to both Option 024 (standard/non-TTL drive) and Option T24 (TTL drive).
- Note 5: One additional switch can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

Table G-1: Configuration of 11713B/C (Option 201) to 87204A/B/C SP4T switches (Option 100)

	From 1171	3B/C (Option 201)	To 87204A/B/C (Option 100)			
Front panel pushb	utton	Interface	cable	10 07204A7 B7 G (Option 100)		
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	
-	-	1 (VCC)	Red	1	_	
-	-	2 (GND)	White/Brown	15	_	
1	OFF	5	Violet	5	2 to C closed	
ļ.	ON	6	Yellow	6	2 to C opened	
2	OFF	7	Black	7	3 to C closed	
2	ON	8	Green	8	3 to C opened	
	OFF	9	Orange	11	5 to C closed	
3	ON	10	Blue	12	5 to C opened	
4	OFF	11	Brown	13	6 to C closed	
+	ON	12	White	14	6 to C opened	

Table G-2: Configuration of 11713B/C (Option 601) to 87204A/B/C SP4T switches (Option 161)

	From 1171	3B/C (Option 601)	To 87204A/B/C (Option 161)	
Front panel pushb	utton	Interface	cable	
Attenuator X	LED	Viking connector pin number	16-pin DIP pin number	RF path
-	-	1 (VCC)	1	-
-	-	2 (GND)	15	-
1	OFF	5	5	2 to C closed
ı	ON	6	6	2 to C opened
2	OFF	7	7	3 to C closed
Δ	ON	8	8	3 to C opened
3	OFF	9	11	5 to C closed
3	ON	10	12	5 to C opened
1	OFF	11	13	6 to C closed
4	ON	12	14	6 to C opened

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: For switches with Option 161, ground pin 16 opens all paths. Use S9 for Attenuator X or S0 for Attenuator Y.*
 - * Do not close any path and ground pin 16 simultaneously as this makes the switch to buzz.
- Note 3: For switch with Option 100, no solder terminal available to open all paths.
- Note 4: Solder terminal/DIP connector with pin numbers 4, 6, 8, 10, 12 & 14 provides indicator function.
- Note 5: Applies to both Option 024 (standard/non-TTL drive) and Option T24 (TTL drive).

Table H-1: Configuration of 11713B/C (Option 201) to 87106A/B/C/D, L7106A/B/C & L7206A/B/C SP6T switches (Option 100) and 87406B matrix switch (Option 100)

From	ո 11713B/C (Օր	otion 201 - quantity 2	To 87106A/B/C/D, L7106A/B/C, L7206A/B/C		
Front panel pus	Front panel pushbutton Interface		e cable	and 87406B	(Option 100)
Attenuator X/Y	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path
_	-	1 (VCC)	Red	1	-
-	-	2 (GND)	White/Brown	15	_
1	OFF	Cable 1-5	Violet	3	1 to C closed
2	OFF	Cable 1-7	Black	5	2 to C closed
3	OFF	Cable 1-9	Orange	7	3 to C closed
4	OFF	Cable 1-11	Brown	9	4 to C closed
5	OFF	Cable 2-5	Violet	11	5 to C closed
6	OFF	Cable 2-7	Black	13	6 to C closed

Table H-2: Configuration of 11713B/C (Option 401) to 87106A/B/C/D, L7106A/B/C & L7206A/B/C SP6T switches (Option 161) and 87406B matrix switch (Option 161)

	From 11713B.	/C (Option 401)	To 87106A/B/C/D, L7106A/B/C, L7206A/B/C	
Front panel pus	Front panel pushbutton		e cable	and 87406B (Option 161)
Attenuator X/Y	LED	Viking connector pin number	16-pin DIP pin number	RF path
-	-	1 (VCC)	1	-
-	-	2 (GND)	15	-
1	OFF	P1-5	3	1 to C closed
2	OFF	P1-7	5	2 to C closed
3	OFF	P1-9	7	3 to C closed
4	OFF	P1-11	9	4 to C closed
5	OFF	P2-5	11	5 to C closed
6	OFF	P2-7	13	6 to C closed

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: For switches with Option 161, ground pin 16 opens all paths. Use S9 for Attenuator X or S0 for Attenuator Y.*
 - * Do not close any path and ground pin 16 simultaneously as this makes the switch to buzz.
- Note 3: For switch with Option 100, no solder terminal available to open all paths.
- Note 4: Applies to both Option 024 (standard/non-TTL drive) and Option T24 (TTL drive).

Table I-1: Configuration of 11713B/C (Option 201) to 87206A/B/C SP6T switches (Option 100) & 87606B matrix switch (Option 100)

	From 11713B/C (Optio	To 87206A/B/C & 87606B (Option 100)			
Front panel	Front panel pushbutton		ce cable	10 0/200A/ D/ C & (S7000B (Option 100)
Attenuator X/Y	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path
-	-	1 (VCC)	Red	1	-
-	-	2 (GND)	White/Brown	15	_
1	OFF	Cable 1-5	Violet	3	1 to C closed
l	ON	Cable 1-6	Yellow	4	1 to C opened
2	OFF	Cable 1-7	Black	5	2 to C closed
2	ON	Cable 1-8	Green	6	2 to C opened
3	OFF	Cable 1-9	Orange	7	3 to C closed
J	ON	Cable 1-10	Blue	8	3 to C opened
4	OFF	Cable 1-11	Brown	9	4 to C closed
4	ON	Cable 1-12	White	10	5 to C opened
5	OFF	Cable 2-5	Violet	11	5 to C closed
ο	ON	Cable 2-6	Yellow	12	5 to C opened
6	OFF	Cable 2-7	Black	13	6 to C closed
0	ON	Cable 2-8	Green	14	6 to C opened

Table I-2: Configuration of 11713B/C (Option 401) to 87206A/B/C SP6T switches (Option 161) & 87606B matrix switch (Option 161)

	From 11713B/C	T. 07000A (D (O B 07000D (O1		
Front panel	Front panel pushbutton		ce cable	To 87206A/B/C & 87606B (Option 161)
Attenuator X/Y	LED	Viking connector pin number	16-pin DIP pin number	RF path
-	-	1 (VCC)	1	-
-	-	2 (GND)	15	-
1	OFF	P1-5	3	1 to C closed
'	ON	P1-6	4	1 to C opened
2	OFF	P1-7	5	2 to C closed
۷	ON	P1-8	6	2 to C opened
3	OFF	P1-9	7	3 to C closed
S	ON	P1-10	8	3 to C opened
4	OFF	P1-11	9	4 to C closed
4	ON	P1-12	10	4 to C opened
5	OFF	P2-5	11	5 to C closed
Э	ON	P2-6	12	5 to C opened
6	OFF	P2-7	13	6 to C closed
0	ON	P2-8	14	6 to C opened

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: With assumption that the initial state of switch's RF path is thru.
- Note 3: One additional switch can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

Table J-1: Configuration of 11713B/C (Option 001) to 8766K, 8767K & 8768K switches (Option 016)

	From 11713E	3/C (Option 001)		To 8766K, 8767K & 8768K (Option 016)		
Front panel pus	Front panel pushbutton Interface cable		8766K	8767K	8768K	
Attenuator X	LED	Viking connector pin number	10-pin DIP pin number	RF path	RF path	RF path
_	-	1 (VCC)	10	-	_	-
1	OFF	5	1	Bypass 1	Bypass 3	Bypass 4
1	ON	6	2	1 to C closed	3 to C closed	4 to C closed
2	OFF	7	5	Bypass 2	Bypass 1	Bypass 2
2	ON	8	8	2 to C closed	1 to C closed	2 to C closed
2	OFF	9	4	-	Bypass 2	Bypass 3
3	ON	10	9	-	2 to C closed	3 to C closed
4	OFF	11	6	-	-	Bypass 1
4	ON	12	7	-	-	1 to C closed

Table J-2: Configuration of 11713B/C (Option 101) to 8766K, 8767K & 8768K switches (Option 060)

	From 11713E	3/C (Option 101)		To 8766K, 8767K & 8768K (Option 060)		
Front panel pus	Front panel pushbutton Interface cable		8766K	8767K	8768K	
Attenuator X	LED	Viking connector pin number	Viking connector pin number	RF path	RF path	RF path
_	-	1 (VCC)	1	_	_	-
1	OFF	5	5	Bypass 1	Bypass 3	Bypass 4
1	ON	6	6	1 to C closed	3 to C closed	4 to C closed
2	OFF	7	7	Bypass 2	Bypass 1	Bypass 2
Δ	ON	8	8	2 to C closed	1 to C closed	2 to C closed
2	OFF	9	9	_	Bypass 2	Bypass 3
3	ON	10	10	_	2 to C closed	3 to C closed
4	OFF	11	11	_	_	Bypass 1
4	ON	12	12	_	_	1 to C closed

- Note 1: Each table below illustrates the configuration of one switch to the 11713B/C.
- Note 2: With assumption that initial state of switch's RF path is thru.
- Note 3: One additional switch can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

 Use S0 for Attenuator Y and S9 for Attenuator X.

Table K: Configuration of 11713B/C (Option 101) to 8769K SP6T switch (Option 060)

	From 11713B	C (Option 101)	To 8769K (Option 060)	
Front panel pus	hbutton	Interfac	e cable	וס איספא (טףנוטוו טסט)
Attenuator X	LED	Viking connector pin number	Viking connector pin number	RF path
-	-	1 (VCC)	1	-
S9	OFF	4	4	Bypass 5
29	ON	3	3	5 to C closed
1	OFF	5	5	Bypass 4
1	ON	6	6	4 to C closed
2	OFF	7	7	Bypass 2
2	ON	8	8	2 to C closed
2	OFF	9	9	Bypass 3
3	ON	10	10	3 to C closed
4	OFF	11	11	Bypass 1
4	ON	12	12	1 to C closed

Table L: Configuration of 11713B/C (Option 001) to 8767M & 8768M switches

	From 11713B	C (Option 001)	T- 076784	J 07C0M	
Front panel pus	hbutton	Interface cable		To 8767M and 8768M	
Attenuator X	LED	Viking connector pin number	10-pin DIP pin number	RF path	RF path
-	-	1 (VCC)	10	_	_
1	OFF	5	1	Bypass 3	Bypass 4
'	ON	6	2	3 to C closed	4 to C closed
2	OFF	7	5	Bypass 1	Bypass 2
2	ON	8	8	1 to C closed	2 to C closed
2	OFF	9	4	Bypass 2	Bypass 3
3	ON	10	9	2 to C closed	3 to C closed
1	OFF	11	6	_	Bypass 1
4	ON	12	7	_	1 to C closed

Table M: Configuration of 11713B/C (Option 701) to 8769M SP6T switches

	From 11713B	/C (Option 701)		
Front panel pus	Front panel pushbutton		ce cable	To 8769M
Attenuator X	LED	Viking connector 14-pin DIP pin number pin number		RF path
-	-	1 (VCC)	12	-
S9	OFF	4	14	Bypass 5
29	ON	3	13	5 to C closed
1	OFF	5	3	Bypass 4
1	ON	6	4	4 to C closed
2	OFF	7	7	Bypass 2
Ζ	ON	8	10	2 to C closed
3	OFF	9	6	Bypass 3
3	ON	10	11	3 to C closed
4	OFF	11	8	Bypass 1
4	ON	12	9	1 to C closed

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: For standard/non-TTL drive only.
- Note 3: Four additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

 Use S0 for Attenuator Y and S9 for Attenuator X.

Table N-1: Configuration of 11713B/C (Option 201) to L7222C & 87222C/D/E DPDT switches (Option 100)

	From 11713	BB/C (Option 201)		To L7222C & 87222C/D/E (Option 100)			
Front panel push	Front panel pushbutton Interface cable		10 L7222C & 67222C/ D/ E (Option 100)				
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
_	-	1 (VCC)	Red	1	_	VCC for all 4 DUTs	
-	-	2 (GND)	White/Brown	9	_	GND for all 4 DUTs	
1	OFF	5	Violet	3	1 to 2 closed, 3 to 4 closed	DUT 1	
'	ON	6	Yellow	5	1 to 4 closed, 2 to 3 closed	ווטע	
2	OFF	7	Black	3	1 to 2 closed, 3 to 4 closed	DUT 2	
Δ	ON	8	Green	5	1 to 4 closed, 2 to 3 closed	DU1 2	
3	OFF	9	Orange	3	1 to 2 closed, 3 to 4 closed	DUT 2	
S	ON 10		Blue	5	1 to 4 closed, 2 to 3 closed	DUT 3	
1	OFF	11	Brown	3	1 to 2 closed, 3 to 4 closed	DUT 4	
4	ON	12	White	5	1 to 4 closed, 2 to 3 closed	DUT 4	

Table N-2: Configuration of 11713B/C (Option 801) to L7222C & 87222C/D/E DPDT switches (Option 161)

	From 11713	BB/C (Option 801)		To L7222C & 87222C/D/E (Option 161)		
Front panel push	button	Interfac	e cable	10 172220 & 072220	/ D/ E (Option 101)	
Attenuator X	LED	Viking connector pin number	10-pin DIP pin number	RF path	Device under test (DUT)	
-	-	1 (VCC)	1	-	VCC for all 4 DUTs	
-	-	2 (GND)	9	-	GND for all 4 DUTs	
1	OFF	5	3	1 to 2 closed, 3 to 4 closed	DUT 1	
ı	ON	6	5	1 to 4 closed, 2 to 3 closed	DOTT	
2	OFF	7	3	1 to 2 closed, 3 to 4 closed	DUT 2	
2	ON	8	5	1 to 4 closed, 2 to 3 closed	0012	
3	OFF	9	3	1 to 2 closed, 3 to 4 closed	DUT 3	
ა	ON	10	5	1 to 4 closed, 2 to 3 closed	0013	
Δ.	OFF	11	3	1 to 2 closed, 3 to 4 closed		
4	ON	12	5	1 to 4 closed, 2 to 3 closed	DUT 4	

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: For standard/non-TTL drive only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-1: Configuration of 11713B/C (Option 201) to N1810UL SPDT switch (Option 202/403)

Fi	rom 1171	3B/C (Option 201)			T 814040111 /O :: 000	,	
Front panel pushbu	tton	Interface	cable	To N1810UL (Option 202)			
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
-	_	1 (VCC)	Red	+V	-	VCC for all 5 DUTs	
-	_	2 (GND)	White/Brown	GND	-	GND for all 5 DUTs	
1	OFF	5	Violet	А	1 to C closed, 2 open	DUT 1	
'	ON 6		Yellow	В	2 to C closed, 1 open	ווטע	
2	OFF	7	Black	А	1 to C closed, 2 open	DUT 2	
۷	ON	8	Green	В	2 to C closed, 1 open	DUT 2	
3	OFF	9	Orange	А	1 to C closed, 2 open	DUT 2	
3	ON	10	Blue	В	2 to C closed, 1 open	DUT 3	
4	OFF	11	Brown	Brown A 1 to C closed		- DUT 4	
4	4 ON 12		White	В	2 to C closed, 1 open		
9	OFF 4		Gray	А	1 to C closed, 2 open	DUT 5	
9	ON	3	White/Red	В	2 to C closed, 1 open	DOI 0	

Table 0-2: Configuration of 11713B/C (Option 501) to N1810UL SPDT switch (Option 201/403)

	rom 117	13B/C (Option 501)		To N1810UL (Option 201)		
Front panel pushb	ıtton	Interface	cable	io wiotoot (opnon 201)		
Attenuator X	LED	Viking connector pin number/banana jack (rear panel)	9-Pin Dsub pin number	RF path	Device under test (DUT)	
-	_	1 (VCC)/VDC COM	5	-	VCC for all 5 DUTs	
-	_	2 (GND)/GND	1	_	GND for all 5 DUTs	
1	OFF	5	4	1 to C closed, 2 open	DUT 1	
'	ON	6	3	2 to C closed, 1 open	0011	
2	OFF	7	4	1 to C closed, 2 open	DUT 2	
۷	ON	8	3	2 to C closed, 1 open	DUT 2	
3	OFF	9	4	1 to C closed, 2 open	DUT 2	
3	ON	10	3	2 to C closed, 1 open	DUT 3	
4	OFF	11	4	1 to C closed, 2 open	DUT 4	
4	ON	12	3	2 to C closed, 1 open	0014	
9	OFF	S9-A	4	1 to C closed, 2 open	DUTE	
9	ON	S9-B	3	2 to C closed, 1 open	DUT 5	

- Note 1: Each table below illustrates the configuration of five switches to the 11713B/C.
- Note 2: For standard/non-TTL drive only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-3: Configuration of 11713B/C (Option 201) to N1810TL SPDT (Option 202/403)

	From 1171	3A/B/C (Option 20	1)		T- N1010TL (0-4: 202)		
Front panel pu	shbutton	Interfac	ce cable	To N1810TL (Option 202)			
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
-	-	1 (VCC)	Red	+V	-	VCC for all 5 DUTs	
_	-	2 (GND)	White/Brown	GND	_	GND for all 5 DUTs	
1	OFF	5	Violet	А	1 to C closed, 2 terminated	DUT 1	
'	ON	6	Yellow	В	2 to C closed, 1 terminated	ווטע	
2	OFF	7	Black	А	1 to C closed, 2 terminated	DUT 2	
۷	ON	8	Green	В	2 to C closed, 1 terminated	DU1 2	
3	OFF	9	Orange	А	1 to C closed, 2 terminated	DUT 3	
3	ON	10	Blue	В	2 to C closed, 1 terminated	טווט	
4	OFF	11	Brown	А	1 to C closed, 2 terminated	DUT 4	
4	ON	12	White	В	2 to C closed, 1 terminated	DUT 4	
9	OFF	4	Gray	А	1 to C closed, 2 terminated	DUT 5	
3	ON	3	White/Red	В	2 to C closed, 2 terminated		

Table 0-4: Configuration of 11713B/C (Option 501) to N1810TL SPDT switch (Option 201/403)

Fro	m 11713	A/B/C (Option 501)		T- 8/10/10T1	(Ontion 201)	
Front panel push	button	Interface of	able	To N1810TL (Option 201)		
Attenuator X	LED	Viking connector pin number/banana jack (rear panel)		RF path Device under test (DUT)		
_	_	1 (VCC)/VDC COM	5	_	VCC for all 5 DUTs	
-	_	2 (GND)/GND	1	_	GND for all 5 DUTs	
1	OFF	5	4	1 to C closed, 2 terminated	DUT 1	
'	ON		3	2 to C closed, 1 terminated	0011	
2	OFF	7	4	1 to C closed, 2 terminated	DUT 2	
2	ON	8	3	2 to C closed, 1 terminated	DUT 2	
3	OFF	9	4	1 to C closed, 2 terminated	DUT 3	
3	ON	10	3	2 to C closed, 1 terminated	DU1 3	
4	OFF	11	4	1 to C closed, 2 terminated	DUT 4	
4	ON	ON 12 3 2 to C closed, 1 terminated		2 to C closed, 1 terminated	DUT 4	
9	OFF	S9-A	4	1 to C closed, 2 terminated	DUTE	
9	ON	S9-B	3	2 to C closed, 2 terminated	DUT 5	

- Note 1: Each table below illustrates the configuration of three switches to the 11713B/C.
- Note 2: For Option 401 (TTL drive) only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Two additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-5: Configuration of 11713B/C (Option 201) to N1810UL SPDT (Option 202/401/403)

	From 117	13B/C (Option 201)			To N1810UL (Option 202/401)			
Front panel	pushbutton	Interfac	e Cable	10 1410100E (Option 2027 401)				
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)		
_	-	1 (VCC)	Red	+V	_	VCC for all 3 DUTs		
_	-	2 (GND)	White/Brown	GND	-	GND for all 3 DUTs		
1	OFF	5	Violet	А	1 to C closed, 2 open			
2	ON	7	Black	В	i to C closed, 2 open	- DUT1		
1	ON	5	Violet	А	2 to Calanad 1 anan			
2	OFF	7	Black	В	2 to C closed, 1 open			
3	OFF	9	Orange	А	1 to Calanad 2 anan			
4	ON	11	Brown	В	1 to C closed, 2 open	DUT2		
3	ON	9	Orange	А	2 to Calanad 1 anan	DU12		
4	OFF	11	Brown	В	2 to C closed, 1 open			
9	OFF	Cable 1-4	Gray	А	1 to C closed, 2 open			
0	ON	Cable 1-3	White/Red	В	i to o closed, 2 open	DUT 3		
9	ON	Cable 1-4	Gray	А	2 to C closed, 1 open	5010		
0	OFF	Cable 1-3	White/Red	В	z to 6 ciosea, 1 open			

Table 0-6: Configuration of 11713B/C (Option 501) to N1810UL SPDT switch (Option 201/401/403)

	From 117	13B/C (Option 501)		To N1810UL (Option 201/401)		
Front panel	pushbutton	Interface	e Cable	to Wiotool (Option 2017 401)		
Attenuator X	LED	Viking connector pin number/ banana jack (rear panel)	9-pin Dsub pin number	RF path	Device under test (DUT)	
-	-	1 (VCC)/VDC COM	5	_	VCC for all 3 DUTs	
_	-	2 (GND)/GND	1	_	GND for all 3 DUTs	
1	OFF	5	4	1 to C closed, 2 open		
2	ON	7	3	T to C closed, 2 open	DUT1	
1	ON	5	4	2 to Coloned 1 annu		
2	OFF	7	3	2 to C closed, 1 open		
3	OFF	9	4	1 to Calanad 2 amon		
4	ON	11	3	1 to C closed, 2 open	DUTA	
3	ON	9	4	2 to Calanad 1 anan	DUT2	
4	OFF	11	3	2 to C closed, 1 open		
9	OFF	S9-A	4	1 to Coloned 2 annu		
0	ON	S9-B	3	1 to C closed, 2 open	DUT 2	
9	ON	S9-A	4	2 to Coloned 1 ones	DUT 3	
0	OFF	S9-B	3	2 to C closed, 1 open		

- Note 1: Each table below illustrates the configuration of three switches to the 11713B/C.
- Note 2: For Option 401 (TTL drive) only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Two additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-7: Configuration of 11713B/C (Option 201) to N1810TL SPDT switch (Option 202/401/403)

	From 117	13A/B/C (Option 20	01)		Fo N1810TL (Option 202/401)		
Front panel p	ushbutton	Interfac	ce cable		6 1410101E (Option 2027 401)		
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
-	-	1 (VCC)	Red	+V	_	VCC for all 3 DUTs	
-	-	2 (GND)	White/Brown	GND	_	GND for all 3 DUTs	
1	OFF	5	Violet	A	1 to C closed, 2 terminated		
2	ON	7	Black	В	T to C closed, 2 terrimated	- DUT1	
1	ON	5	Violet	А	2 to C closed, 1 terminated		
2	OFF	7	Black	В	2 to 6 closed, i terrimated		
3	OFF	9	Orange	А	1 to C closed, 2 terminated		
4	ON	11	Brown	В	T to C closed, 2 terrimated	DUT2	
3	ON	9	Orange	A	2 to C closed, 1 terminated	D012	
4	OFF	11	Brown	В	2 to 6 closed, i terrimated		
9	OFF	Cable 1-4	Gray	А	1 to C closed, 2 terminated		
0	ON	Cable 1-3	White/Red	В	1 to 0 closed, 2 terrimated	DUT 3	
9	ON	Cable 1-4	Gray	А	2 to C closed, 1 terminated	1	
0	OFF	Cable 1-3	White/Red	В	2 to 6 closed, I terminated		

Table 0-8: Configuration of 11713B/C (Option 501) to N1810TL SPDT switch (Option 201/401/403)

	From 117	13A/B/C (Option 50	11)	To N1810TL (Option 201/401)		
Front Ppanel p	ushbutton	Interfac	ce cable	io Wiototi (Option 2017 401)		
Attenuator X	LED	Viking connector pin number/ banana jack (rear panel)	9-pin Dsub pin number	RF path	Device under test (DUT)	
_	-	1 (VCC)/VDC COM	5	_	VCC for all 3 DUTs	
_	-	2 (GND)/GND	1	_	GND for all 3 DUTs	
1	OFF	5	4	1 to C closed, 2 terminated		
2	ON	7	3	1 to C closed, 2 terminated	DUT1	
1	ON	5	4	2 to C closed, 1 terminated		
2	OFF	7	3	2 to C closed, 1 terminated		
3	OFF	9	4	1 to C closed, 2 terminated		
4	ON	11	3	1 to C closed, 2 terminated	DUT2	
3	ON	9	4	2 to C aloned 1 townsingted	0012	
4	OFF	11	3	2 to C closed, 1 terminated		
9	OFF	S9-A	4	1 to C closed, 2 terminated		
0	ON	S9-B	3	i to G closed, 2 terminated	DUT 2	
9	ON	S9-A	4	DUT 3		
0	OFF	S9-B	3	2 to C closed, 1 terminated		

- Note 1: Each table below illustrates configuration of five switches to 11713B/C.
- Note 2: For standard/non TTL drive only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-9: Configuration of 11713B/C (Option 201) to N1812UL bypass switch (Option 202/403)

	From 117	713B/C (Option 201)		To N1812TL (Option 202)		
Front panel pu	shbutton	Interfa	ce cable	io Miorzie (Opuon 202)			
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
_	-	1 (VCC)	Red	+V	_	VCC for all 5 DUTs	
_	-	2 (GND)	White/Brown	GND	_	GND for all 5 DUTs	
1	OFF	5	Violet	А	1 to open, 2 to 3, 4 to 5	DUT 4	
'	ON	6	Yellow	В	1 to 2, 3 to 4, 5 to open	DUT 1	
2	OFF	7	Black	А	1 to open, 2 to 3, 4 to 5	DUT 2	
Z	ON	8	Green	В	1 to 2, 3 to 4, 5 to open	1 0012	
3	OFF	9	Orange	А	1 to open, 2 to 3, 4 to 5	DUT 3	
3	ON	10	Blue	В	1 to 2, 3 to 4, 5 to open	ס וטע	
4	OFF	11	Brown	А	1 to open, 2 to 3, 4 to 5	DUT 4	
4	ON	12	White	В	1 to 2, 3 to 4, 5 to open	DUT 4	
9	OFF	4	Gray	А	1 to open, 2 to 3, 4 to 5	DUT 5	
9	ON	3	White/Red	В	1 to 2, 3 to 4, 5 to open		

Table 0-10: Configuration of 11713B/C (Option 501) to N1812UL bypass switch (Option 201/403)

Fi	From 11713B/C (Option 501)			To N4012TI	(Ontion 201)	
Front panel push	button	Interface of	able	To N1812TL (Option 201)		
Attenuator X	LED	Viking connector pin number/banana jack (rear panel)	9-pin Dsub pin number	RF path	Device under test (DUT)	
-	_	1 (VCC)/VDC COM	5	_	VCC for all 5 DUTs	
_	_	2 (GND)/GND	1	_	GND for all 5 DUTs	
1	OFF	5	4	1 to open, 2 to 3, 4 to 5	DUT 1	
'	ON		3	1 to 2, 3 to 4, 5 to open		
2	OFF	7	4	1 to open, 2 to 3, 4 to 5	DUT 2	
2	ON	8	3	1 to 2, 3 to 4, 5 to open	DOT 2	
3	OFF	9	4	1 to open, 2 to 3, 4 to 5	DUT 3	
3	ON	10	3	1 to 2, 3 to 4, 5 to open	0013	
4	OFF	11	4	1 to open, 2 to 3, 4 to 5	DUT 4	
4	ON	12	2 3 1 to 2, 3 to 4, 5 to		0014	
9	OFF	4	4	1 to open, 2 to 3, 4 to 5	DUT 5	
9	ON	3	3	1 to 2, 3 to 4, 5 to open	001 0	

- Note 1: Each table below illustrates configuration of five switches to 11713B/C.
- Note 2: For standard/non TTL drive only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Five additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7, 8 & 0) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-11: Configuration of 11713B/C (Option 201) to N1811TL bypass switch (Option 202/403)

	From 117	713B/C (Option 201)		T- N1012111 (O-4: 202)		
Front panel pu	shbutton	Interfa	ce cable		To N1812UL (Option 202)		
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
_	-	1 (VCC)	Red	+V	_	VCC for all 5 DUTs	
_	-	2 (GND)	White/Brown	GND	_	GND for all 5 DUTs	
1	OFF	5	Violet	А	1 to 2, 3 to 4	DUT 1	
'	ON	6	Yellow	В	1 terminated, 2 to 3, 4 to open	ווטע	
2	OFF	7	Black	А	1 to 2, 3 to 4	DUT 2	
2	ON	8	Green	В	1 terminated, 2 to 3, 4 to open	DU1 2	
3	OFF	9	Orange	А	1 to 2, 3 to 4	DUT 3	
ა	ON	10	Blue	В	1 terminated, 2 to 3, 4 to open	טוטט	
4	OFF	11	Brown	А	1 to 2, 3 to 4	DUT 4	
4	ON	12	White	В	1 terminated, 2 to 3, 4 to open	DUT 4	
9	OFF	4	Gray	А	1 to 2, 3 to 4	DUT 5	
ð	ON	3	White/Red	В	1 terminated, 2 to 3, 4 to open		

Table 0-12: Configuration of 11713B/C (Option 501) to N1811TL bypass switch (Option 201/403)

Fi	From 11713B/C (Option 501)			To N1912III	(Option 201)	
Front Panel Push	button	Interface (Cable	IU NIOIZUL	(Option 201)	
Attenuator X	LED	Viking connector pin number/banana jack (rear panel)	9-pin Dsub pin number	RF path Device under test (DUT)		
-	_	1 (VCC)/VDC COM	5	-	VCC for all 5 DUTs	
-	_	2 (GND)/GND	1	_	GND for all 5 DUTs	
1	OFF	5	4	1 to 2, 3 to 4	DUT 1	
ı	ON	6	3	1 terminated, 2 to 3, 4 to open	ווסט	
2	OFF	7	4	1 to 2, 3 to 4	DUT 2	
2	ON	8	3	1 terminated, 2 to 3, 4 to open	0012	
3	OFF	9	4	1 to 2, 3 to 4	DUT 3	
ა	ON	10	3	1 terminated, 2 to 3, 4 to open	0013	
4	OFF	11	4	1 to 2, 3 to 4	DUT 4	
4	ON 12 3 1 terminated,		1 terminated, 2 to 3, 4 to open	DUI 4		
9	OFF	4	4	1 to 2, 3 to 4	DUT 5	
9	ON	3	3	1 terminated, 2 to 3, 4 to open	0015	

- Note 1: Each table below illustrates configuration of three switches to 11713B/C.
- Note 2: For Option 401 (TTL drive) only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Two additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-13: Configuration of 11713B/C (Option 201) to N1812UL bypass switch (Option 202/401/403)

	From 11	713B/C (Option 201)	To N1812UL (Option 202)			
Front panel pushbutton Interface cable		ce cable	10 1410120E (Option 202)				
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
_	-	1 (VCC)	Red	+V	_	VCC for all 3 DUTs	
-	-	2 (GND)	White/Brown	GND	_	GND for all 3 DUTs	
1	OFF	5	Violet	А	1 to open, 2 to 3, 4 to 5		
2	ON	7	Black	В	1 to open, 2 to 3, 4 to 5	DUT1	
1	ON	5	Violet	А	1 to 2, 3 to 4, 5 to open		
2	OFF	7	Black	В	1 to 2, 3 to 4, 3 to open		
3	OFF	9	Orange	А	1 to open 2 to 2 / to 5		
4	ON	11	Brown	В	1 to open, 2 to 3, 4 to 5		
3	ON	9	Orange	А	1 to 2, 3 to 4, 5 to open	DUT2	
4	OFF	11	Brown	В	1 to 2, 0 to 4, 0 to open		
9	OFF	4	Gray	А	1 to open, 2 to 3, 4 to 5		
0	ON	3	White/Red	В	1 to open, 2 to 3, 4 to 5	DUT 3	
9	ON	4	Gray	А	1 to 2, 3 to 4, 5 to open]	
0	OFF	3	White/Red	В	1 to 2, 3 to 4, 5 to open		

Table 0-14: Configuration of 11713B/C (Option 501) to N1812UL bypass switch (Option 201/401/403)

	From 11	713B/C (Option 501)	To N1812UL (Option 201/401)		
Front panel pushbutton Interface cable			ce cable	10 N 1012OL (Option 2017 401)		
Attenuator X	LED	Viking connector pin number/ banana jack (rear panel)	9-pin Dsub pin number	RF path	Device under test (DUT)	
-	-	1 (VCC)/VDC COM	5	ı	VCC for all 3 DUTs	
-	-	2 (GND)/GND	1	ı	GND for all 3 DUTs	
1	OFF	5	4	1 to onen 2 to 2 4 to E		
2	ON	7	3	1 to open, 2 to 3, 4 to 5	DUT1	
1	ON	5	4	1 to 2, 3 to 4, 5 to open	0011	
2	OFF	7	3	1 to 2, 3 to 4, 5 to open	1	
3	OFF	9	4	1 to open, 2 to 3, 4 to 5		
4	ON	11	3	1 to open, 2 to 3, 4 to 5	DUT2	
3	ON	9	4	1 to 2 2 to 4 5 to open	0012	
4	OFF	11	3	1 to 2, 3 to 4, 5 to open		
9	OFF	4	4	1 to open, 2 to 3, 4 to 5		
0	ON	3	3	ι το ομείι, 2 το 3, 4 το 5	DUT 3	
9	ON	4	4	1 to 2, 3 to 4, 5 to open	0013	
0	OFF	3	3	1 to 2, 3 to 4, 5 to open		

- Note 1: Each table below illustrates configuration of three switches to 11713B/C.
- Note 2: For Option 401 (TTL drive) only.
- Note 3: Option 403 (current interrupt) is required to ensure switch is not damaged by overheating.
- Note 4: Two additional switches can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.
- Note 5: 2,000,000 switching cycles at 0.7 A for contact pairs 9 and 0. For more details, please refer to the "Supplemental characteristics" table on page 3.

Table 0-15: Configuration of 11713B/C (Option 201) to N1811TL bypass switch (Option 202/401/403)

	From 11	713B/C (Option 20 1)	To N1812UL (Option 202)			
Front panel pushbutton Interface cal		ce cable		io ivioizot (option 202)			
Attenuator X	LED	Viking connector pin number	Bare wire color	Solder terminal number	RF path	Device under test (DUT)	
-	-	1 (VCC)	Red	+V	-	VCC for all 3 DUTs	
_	-	2 (GND)	White/Brown	GND	_	GND for all 3 DUTs	
1	OFF	5	Violet	А	1 to 2, 3 to 4		
2	ON	7	Black	В	1 10 2, 3 10 4	DUT1	
1	ON	5	Violet	А	1 terminated, 2 to 3, 4 to		
2	OFF	7	Black	В	open		
3	OFF	9	Orange	А	1 to 2, 3 to 4		
4	ON	11	Brown	В	1 10 2, 3 10 4	DUT2	
3	ON	9	Orange	А	1 terminated, 2 to 3, 4 to		
4	OFF	11	Brown	В	open		
9	OFF	4	Gray	А	1 to 2, 3 to 4		
0	ON	3	White/Red	В	1 10 2, 3 10 4	DUT 3	
9	ON	4	Gray	А	1 terminated, 2 to 3, 4 to		
0	OFF	3	White/Red	В	open		

Table 0-16: Configuration of 11713B/C (Option 501) to N1811TL bypass switch (Option 201/401/403)

	From 11	713B/C (Option 501)	To N1812UL (Option 201/401)		
Front panel pushbutton Interface cable		io Wiotzon (Option 2017 401)				
Attenuator X	LED	Viking connector pin number/ banana jack (rear panel)	9-pin Dsub pin number	RF path	Device under test (DUT)	
_	-	1 (VCC)/VDC COM	5	-	VCC for all 3 DUTs	
-	-	2 (GND)/GND	1	-	GND for all 3 DUTs	
1	OFF	5	4	1 to 2, 3 to 4		
2	ON	7	3	1 to 2, 3 to 4	DUT1	
1	ON	5	4	1 *************************************	0011	
2	OFF	7	3	1 terminated, 2 to 3, 4 to open		
3	OFF	9	4	14-2-24-4		
4	ON	11	3	1 to 2, 3 to 4	DUT2	
3	ON	9	4	1	0012	
4	OFF	11	3	1 terminated, 2 to 3, 4 to open		
9	OFF	4	4	14-2-24-4		
0	ON	3	3	1 to 2, 3 to 4	DUT 2	
9	ON	4	4	1 +	DUT 3	
0	OFF	3	3	1 terminated, 2 to 3, 4 to open		

Configuration Information for Attenuators

Note 1: Each table below illustrates the configuration of one attenuator to the 11713B/C.

Note 2: One additional attenuator can be driven by Attenuator Y (front panel pushbuttons 5, 6, 7 & 8) using the same configuration as Attenuator X.

Table P-1: Configuration of 11713B/C (Option 001) to 8494G/H, 8495G/H, 8496G/H, 8495K & 8497K programmable attenuators (Option 016)

From 11713B/C (Option 001)				To attenuators (Option 016)				
Front panel p	ushbutton	Interface (cable	8494G/H	8495G/H	8496G/H	8495K	8497K
Attenuator X	LED	Viking connector pin number	10-pin DIP pin number	Attenuation (dB)				
_	-	1 (VCC)	10	-	_	_	_	_
1	OFF	5	1	0	0	0	0	0
'	ON	6	2	1	10	10	10	10
2	OFF	7	5	0	0	0	0	0
Z	ON	8	8	2	20	20	20	20
2	OFF	9	4	0	0	0	0	0
3	ON	10	9	4	40	40	20	30
4	OFF	11	6	0	_	0	0	0
4	ON	12	7	4	_	40	20	30

Table P-2: Configuration of 11713B/C (Option 101) to 8494G/H, 8495G/H, 8496G/H, 8495K & 8497K programmable attenuators (Option 060)

From 11713B/C (Option 101)				To attenuators (Option 060)				
Front panel pu	ıshbutton	Interface (cable	8494G/H	8495G/H	8496G/H	8495K	8497K
Attenuator X	LED	Viking connector pin number	Viking connector pin number	Attenuation (dB)				
-	-	1 (VCC)	1	-	_	_	_	_
1	OFF	5	5	0	0	0	0	0
1	ON	6	6	1	10	10	10	10
2	OFF	7	7	0	0	0	0	0
Z	ON	8	8	2	20	20	20	20
3	OFF	9	9	0	0	0	0	0
ა	ON	10	10	4	40	40	20	30
	OFF	11	11	0	-	0	0	0
4	ON	12	12	4	_	40	20	30

Table Q: Configuration of 11713B/C (Option 001) to 84904K/L/M, 84905M, 84906K/L, 84907K/L & 84908M programmable attenuators

	From 11713B/C (Option 001)					To attenuators		
Front panel pu	shbutton	Interface	cable	84904K/L/M	84905M	84906K/L	84907K/L	84908M
Attenuator X	LED	Viking connector pin number	10-pin DIP pin number	Attenuation (dB)				
_	-	1 (VCC)	10	-	-	-	-	-
1	OFF	5	1	0	0	0	0	0
1	ON	6	2	1	10	10	10	5
2	OFF	7	5	0	0	0	0	0
2	ON	8	8	2	20	20	20	10
2	OFF	9	4	0	0	0	0	0
3	ON	10	9	4	30	30	40	20
4	OFF	11	6	0		0		0
4	ON	12	7	4		30		30

Interface Cable Drawings

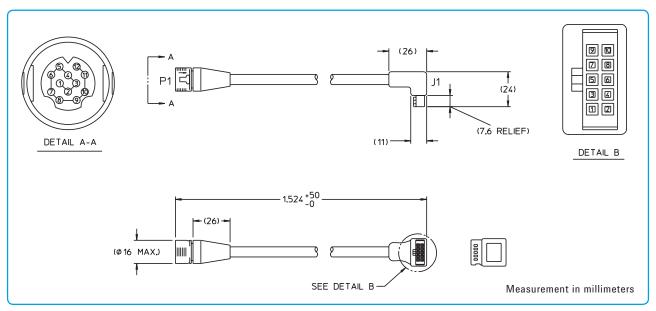


Figure 1. Option 001 viking connector to 10-pin DIP connector

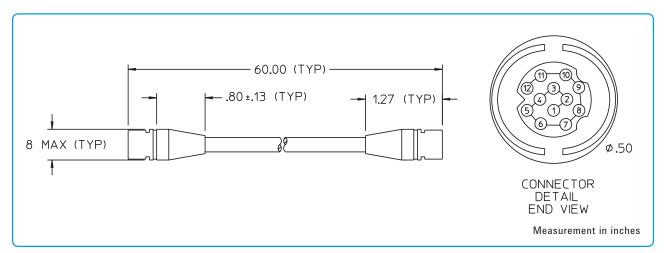


Figure 2. Option 101 viking connector to viking connector

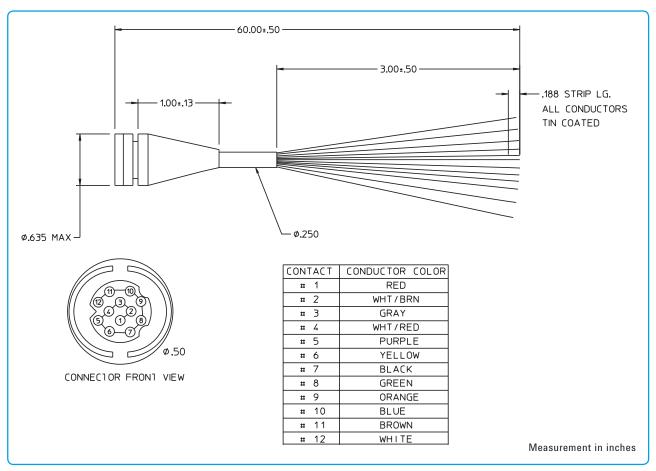


Figure 3. Option 201 viking connector to 12-pin conductor cable, bare wire

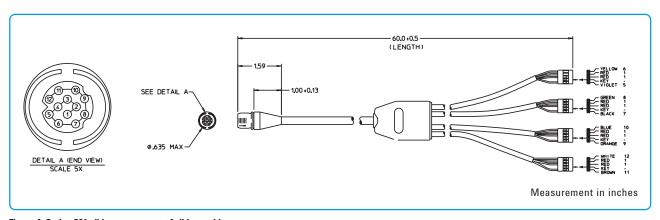


Figure 4. Option 301 viking connector to 4 ribbon cables

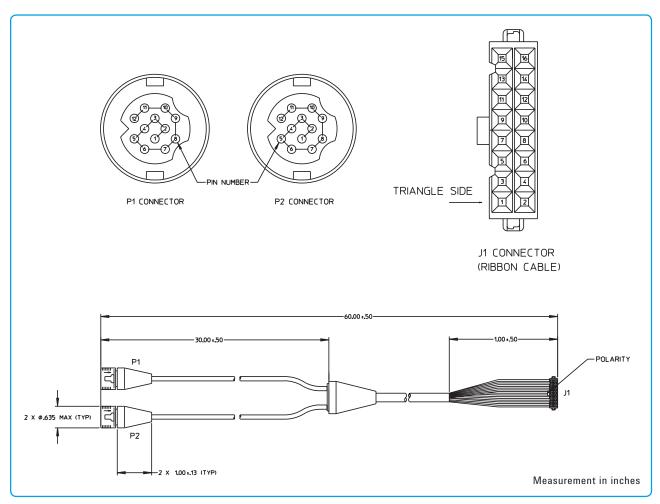


Figure 5. Option 401 dual-viking connector to 16-pin DIP connector

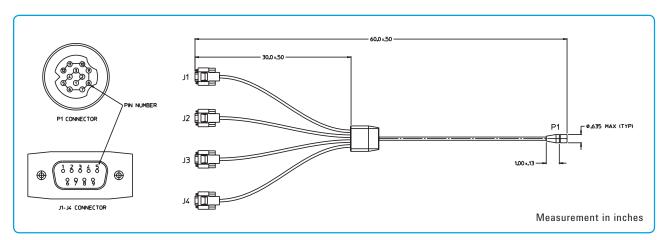


Figure 6. Figure 6. Option 501 viking connector to (4) 9-pin Dsub connectors

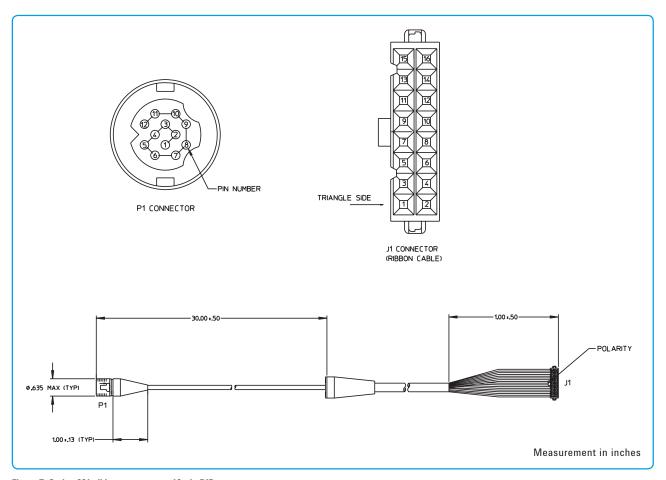


Figure 7. Option 601 viking connector to 16-pin DIP connector

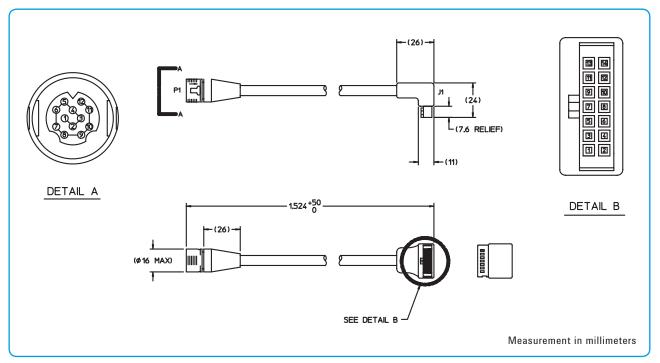


Figure 8. Option 701 viking connector to 14-pin DIP connector

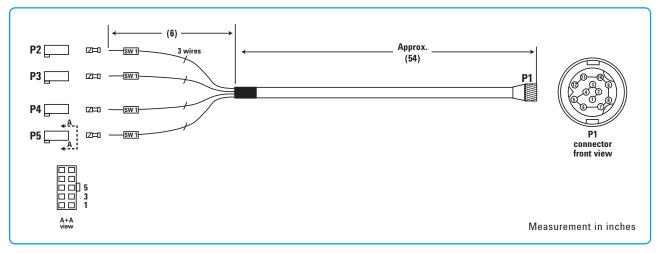


Figure 9. Option 801 viking connector to (4) 10-pin DIP connectors

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