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DAQ Accessories Selection Guide

NI Cable Design Advantages

National Instruments offers many different high-performance shielded cables that have been specially designed for specific NI multifunction DAQ devices. Each type of cable features improved signal integrity using the following technologies:

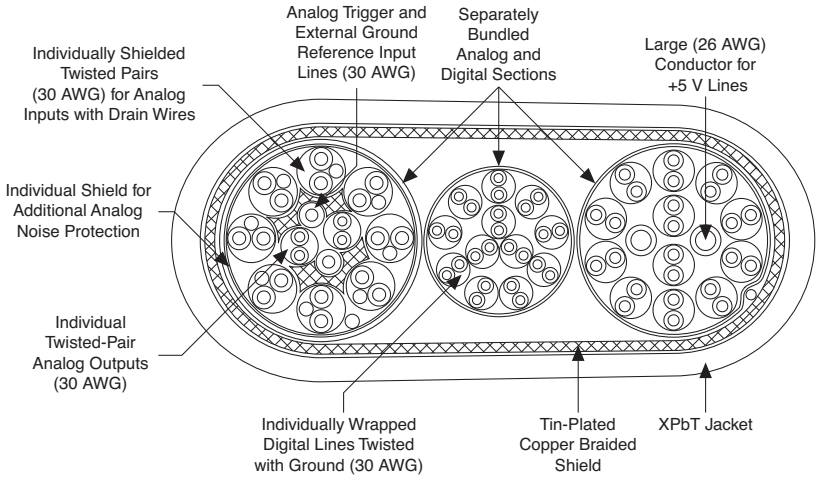


Figure 1. Enhanced-Performance Shielded Cable Used in the SHC68-68-EPM Cable

Multifunction DAQ Accessories

M Series	Feature	Connect to …	Connector[1]	Cable[2,5]	Accessory
68-pin devices	Noise-reducing	SCC portable signal conditioning	0 or 1	SHC68-68-EPM	SCC-68
	Noise-reducing	SCXI high-performance signal conditioning	0 only	SHC68-68-EPM	NI SCXI Signal Conditioning Hardware
	Noise-reducing	Screw terminals	0 or 1	SHC68-68-EPM	SCC-68, SCB-68, or TBX-68
	Noise-reducing	Screw terminals (PXI only)	0 only	–	TB-2706
	Noise-reducing	BNC terminal block	0 or 1	SHC68-68-EPM	BNC-2110, BNC-2111, BNC-2120, or BNC-2090
	Noise-reducing	50-pin connector	0 or 1	SHC68-68-EPM[4]	50-pin accessories
	Basic shielding	Screw terminals	0 or 1	SHC68-68	SCB-68, CB-68LP, CB-68LPR
	Low-cost	Screw terminals	0 or 1	RC68-68	CB-68LP or CB-68LPR
	Custom connectivity	Board mounting connectors	0 or 1	SHC68-68-EPM	PCB mounting connectors
	Custom connectivity	68-pin female connector	0 or 1	SHC68-68M-EPM	Custom-built or third-party
	Custom connectivity	Unterminated	0 or 1	SHC68-NT-S	Custom-built or third-party
37-pin devices	150 V CAT II, DIN rail	Screw terminals	0 only	SH37F-37M	CB-37F-HVD
	High-voltage isolated	Screw terminals	0 only	DB37M-DB37F-EP[3]	CB-37F-HVD, CB-37FH, or CB-37FV
	DIN rail	Screw terminals	0 only	SH37F-37M or R37F-37M-1	CB-37FH or CB-37FV
	Custom connectivity	Unterminated	0 only	SH37F-P-4	Custom-built or third-party
	Custom connectivity	Crimp and poke termination	0 only	–	TB-37F-37CP
	Custom connectivity	Solder cup termination	0 only	–	TB-37F-37SC
	Low-cost	Screw terminals	0 only	–	CB-37F-LP

[1]Connector 0 is found on all M Series devices. 0 and 1 require two cables and accessories; [2]For NI 6225 and NI 6255, use SHC68-68-EPM on connector 0 and SHC68-68 on connector 1;
[3]Cable works with only NI 6230 and NI 6236; [4]Use the 68M-50F-MIO with the SHC68-68-EPM when connecting to 50-pin accessories; [5]For USB M Series mass-terminated modules, use SH68-68-EP.

S Series	Feature	Connect to …	Connector	Cable	Accessory
NI 6115, NI 6120, NI 6123, NI 6133, NI 6122, NI 6132, NI 6110, NI 6111	Noise-reducing	SMB terminal block (PXI only)	0 only	–	TB-2708 or TB-2709[6]
	Noise-reducing	Screw terminals (PXI only)	0 only	–	TB-2705
	Noise-reducing	Screw terminals	0 only	SH68-68-EP	SCB-68
	Noise-reducing	BNC terminal block	0 only	SH68-68-EP	BNC-2110, BNC-2120, or BNC-2090A
	Low-cost	Screw terminals	0 only	R6868	CB-68LP or CB-68LPR
NI 6143	Noise-reducing	Screw terminals (PXI only)	0 only	–	TB-2706
	Noise-reducing	Screw terminals	0 only	SHC68-68-EPM	SCB-68
	Low-cost	Screw terminals	0 only	RC68-68	CB-68LP or CB-68LPR
NI 6154	High-voltage isolated	Screw terminals	0 only	DB37M-DB37F-EP	CB-37F-HVD, CB-37FH, or CB-37FV

[6]TB-2708 for use with PXI-6115 and PXI-6120; TB-2709 for use with PXI-6122, PXI-6223, PXI-6232, and PXI-6133.

R Series	Feature	Connect to …	Connector	Cable	Accessories
NI 7833R, NI 7831R, NI 7830R	Noise reducing	Screw terminals	0	SHC68-68-RMIO	SCB-68
			1 or 2	SHC68-68-RDIO	
	Signal conditioning and I/O expansion	C Series modules	1 or 2	SHC68-68-RDIO	cRIO-9151 R Series expansion chassis
NI 7813R, NI 7811R	Noise reducing	Screw terminals	0, 1, 2, or 3	SHC68-68-RDIO	SCB-68
	Signal conditioning and I/O expansion	C Series modules	0, 1, 2, or 3	SHC68-68-RDIO	cRIO-9151 R Series expansion chassis

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DAQ Accessories Selection Guide

Product	Feature	Connect to …	Cable	Accessory
68-Pin E Series (except DAQCard devices)				
NI 6070E, NI 6032E, NI 6052E, NI 6030E, NI 6040E, NI 6024E, NI 6036E, NI 6023E, NI 6034E	Noise-reducing	SCC portable signal conditioning	SH68-68-EP	SCC-68
		SCXI high-performance signal conditioning	SH68-68-EP	NI SCXI Signal Conditioning Hardware
		Screw terminals	SH68-68-EP	SCB-68 or TBX-68
		BNC terminal block	SH68-68-EP	BNC-2110, BNC-2111, BNC-2120, or BNC 2190
		50-pin connector	SH6850	Custom-built or third-party
	Low-cost	Screw terminals	R6868	CB-68LP or CB-68LPR
100-Pin E Series				
NI 6071E, NI 6033E, NI 6031E, NI 6025E	Noise-reducing	Screw terminals	SH100100	SCB-100
		Screw terminals	SH1006868	2 SCB-68
		BNC terminal block	SH1006868	BNC-2115, BNC-2110, BCN-2111, BNC-2120, or BNC-2190
		50-pin connector	SH1005050	Custom-built or third-party
	Low-cost	Screw terminals	SH1006868	CB-68LP and/or CB-68LPR
E Series DAQCard Devices				
DAQCard-6062E, DAQCard-6036E, DAQCard-6024E	Noise-reducing	SCC portable signal conditioning	SHC68-68-EPM	SCC-68
		SCXI high-performance signal conditioning	SHC68-68-EPM	NI SCXI Signal Conditioning Hardware
		Screw terminals	SHC68-68-EPM	SCB-68 or TBX-68
		BNC terminal block	SHC68-68-EPM	BNC-2110, BNC-2111, BNC-2120, or BNC 2190
	Low-cost	Screw terminals	RC68-68	CB-68LP or CB-68LPR
B Series				
NI 6010	Low-cost	Screw terminals	SH37F-37M-1	CB-37F-LP1, CB-37FH, CB-37FV

Analog Output Accessories

Model	Shielding	Connect to …	Cable	Accessory
NI 673x, PCI-671x, PXI-671x	Shielded	BNC	SH68-68-EP	BNC-2110
		Screw terminals	SH68-68-EP	SCB-68 or TBX-68
		Screw terminals	–	TB-2705 (PXI)
		Custom	SH68-68-EP	CA-1000
	Unshielded	Screw terminals	R6868	CB-68LP or CB-68LPR
NI 6723	Shielded	BNC	2 SH68-C68-S	BNC-2110 and BNC-2115
		Screw terminals	2 SH68-C68-S	2 SCB-68 or TBX-68
		Custom	2 SH68-C68-S	2 CA-1000
NI 6722	Shielded	BNC	SH68-C68-S	BNC-2110
		Screw terminals	SH68-C68-S	SCB-68
		Custom	SH68-C68-S	CA-1000
	Unshielded	Screw terminals	RC68-68	CB-68LP or CB-68LPR
NI 6703, NI 6704	Shielded	Screw terminals	SH68-68-D1	SCB-68
		Custom	SH68-68-D1	CA-1000
	Unshielded	Screw terminals	R6868	CB-68LP or CB-68LPR
DAQCard-6715	Shielded	BNC	SHC68-68-EPM	BNC-2110
		Screw terminals	SHC68-68-EPM	SCB-68
		Custom	SHC68-68-EPM	CA-1000
	Unshielded	Screw terminals	RC68-68	CB-68LP or CB-68LPR

DIO Accessories

Product	Feature	Connect to …	Cable	Accessory
100-Pin				
NI 6509, NI 6511, NI 6512, NI 6513, NI 6514, NI 6515, NI 6527, NI 6528, PC-DIO-96	Noise-reducing	Screw terminals	SH100-100-F	SCB-100
	Low-cost	Screw terminals	Cable included in kit	CB-100 kit
50-Pin				
NI 6503, USB-6501 OEM, PC-DIO-24, DAQCard-DIO-24	Noise-reducing	Screw terminals	PSH27-50F-D1	CB-50, CB-50LP
	Low-cost	Screw terminals	NB1	CB-50, CB-50LP
37-Pin				
NI 6510, NI 6516, NI 6517, NI 6518, NI 6519, NI 6520, NI 6521	High-voltage	Screw terminals	SH37F-37M	CB-37F-HVD
	High-voltage	Screw terminals	–	TB-2621 (PXI only)
	Noise-reducing	Screw terminals	SH37F-37M	CB-37FH, CB-37FV
	Low-cost	Screw terminals	R37F-37M-1	CB-37FH, CB-37FV
	Low-cost	Screw terminals	–	CB-37F-LP
	Custom connectivity	37-pin female connector	–	TB-37F-37CP, TB-37F-37SC
	Custom connectivity	37-pin female connector	SH37F-P-4	–

Counter/Timer Accessories

Product	Feature	Connect to …	Cable	Accessory
100-Pin				
NI 6624	Noise-reducing	Screw terminals	SH100-100F	SCB-100
	Low-cost	Screw terminals	Cable included in kit	CB-100 kit
68-Pin				
NI 6601, NI 6602, NI 6608	Noise-reducing	Screw terminals	SH68-68-D1	SCB-68
	Noise-reducing	BNC connectors	SH68-68-D1	BNC-2121
	Noise-reducing	Screw terminals	–	TB-2715
	Low-cost	Screw terminals	R6868	CB-68LP
	Low-cost	Screw terminals	R6868	TBX-68

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100-Pin Accessories

Cables

SH100100 – Shielded 100-conductor cable terminated with 100-pin male 0.050 series D-type connectors. This cable connects the 100-pin E Series devices to 100-pin accessories.

1 m 182853-01
2 m 182853-02

SH1006868 – Shielded cable that connects to 100-pin E Series devices and terminates with two female 68-pin 0.050 series D-type connectors.

1 m 182849-01
2 m 182849-02

SH100-100-F – Shielded 100-conductor cable for connecting 100-pin DIO and TIO devices to 100-pin accessories.

2 m 185095-02

R1005050 – Connects 100-pin E Series, DIO, and TIO devices to standard 50-pin third-party or custom connectors.

1 m 182762-01
2 m 182762-02

Connector Blocks

SCB-100 – Shielded I/O connector block for rugged, low-noise signal termination with 100-pin E Series, DIO, and TIO devices. It also includes general-purpose breadboard areas and an IC temperature sensor for cold-junction compensation in temperature measurements.

SCB-100 776990-01
Dimensions – 19.5 by 15.2 by 4.5 cm (7.7 by 6.0 by 1.8 in.)

CB-100 – Includes two CB-50 I/O connector blocks and an R1005050 ribbon cable for connecting to any devices with a 100-pin SCSI I/O connector. Each CB-50 block includes hardware for mounting the accessory on a standard DIN-rail or panel.

CB-100 with 1 m R1005050 cable 777812-01

PCB Mounting Connectors for Custom Accessories – Build custom accessories that connect to 100-conductor shielded and ribbon cables using these connectors.

100-pin, female, right-angle mounting 777778-01
100-pin, female, vertical mounting 777779-01

68-Pin Accessories

Cables

SHC68-68-EPM – A high-performance shielded 68-conductor cable terminated with a VHDCI 68-pin male connector at one end and a 68-pin female 0.050 D-type connector at the other end for connecting M Series, DAQCard, and select S Series devices to standard 68-pin accessories.

0.5 m.....192061-0R5
1 m 192061-01
2 m 192061-02
5 m 192061-05
10 m 192061-10

SHC68-68 – A low-cost cable for connecting M Series DAQ devices to 68-pin accessories and signal conditioning systems. It features individually twisted cable pairs but does not have shields between the analog and digital signals. For improved noise rejection, consider the SHC68-68-EPM.

1 m 191945-01
2 m 191945-02

SHC68-68-RMIO, SHC68-68-RDIO – High-performance shielded 68-conductor cables terminated with a VHDCI 68-pin male connector at one end and a 68-pin female 0.050 D-type connector at the other end; specifically designed for the MIO and DIO connectors on R Series devices.

SHC68-68-RMIO
1 m 189588-01
2 m 189588-02
SHC68-68-RDIO
1 m 191667-01

SH68-C68-S – Basic shielded cable featuring twisted pairs and additional ferrites for connecting NI 672x analog output devices to 68-pin accessories.

2 m 186381-02


SCB-100


SHC68-68-EPM


SHC68-68-RMIO


SHC68-68-RDIO


SHC68-68


SH68-C68-S

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SHC68U-68-EP – Shielded 68-conductor cable terminated with an inverted VHDCI 68-pin male connector at one end and a 68-pin female 0.050 series D-type connector at the other. When using two E Series DAQCard devices in adjacent slots, use one SHC68-68-EPM and one SHC68U-68-EP.

0.5 m.....187406-0R5
1 m 187406-01

SH68-68-EP, SH68-68R1-EP – Shielded 68-conductor cable terminated with two 68-pin female 0.050 series D-type connectors. They connect to 68-pin mass-terminated USB M Series, E Series, S Series, and B Series devices. If you need a right-angle connector, use the SH68-68R1-EP.

SH68-68-EP
1 m 184749-01
2 m 184749-02
5 m 184749-05
10 m 184749-10

SH68-68R1-EP
1 m 187051-01

SH68-68-D1 – Shielded 68-conductor cable terminated with two 68-pin female 0.050 series D-type connectors. This cable connects counter/timer and NI 670x analog output devices to 68-pin accessories.

1 m 183432-01
2 m 183432-02

SH6850 – A shielded cable that connects a 68-pin E Series, S Series (except NI 6143), or B Series multifunction DAQ product to a third-party or custom standard 50-pin accessory. The cable provides a screw-latching 68-pin female connector on one side and a standard 50-pin female connector on the other side.

1 m 776784-01
2 m 776784-02

SHC68-68M-EPM – A shielded cable used to connect M Series devices with custom-built accessories. One end terminates with a 68-pin VHDCI male connector and the other with a 0.050 D-type male connector.

0.3 m.....192288-0R3

SHC68-NT-S – A shielded 68-conductor cable terminated with a 68-pin male VHDCI connector at one end and open to bare wires at the other. The cable connects M Series, NI 6143, and R Series devices to custom accessories through bare wires.

2 m 189041-02

RC68-68 – A 68-conductor ribbon cable that connects a DAQCard, M Series device, or NI 6143 directly to 68-pin accessories. You can use two RC68-68 cables together in adjacent PCMCIA slots or on 2-connector M Series devices.

0.25 m.....187252-0R25
0.5 m.....187252-0R5
1 m 187252-01

R6868 – A low-cost, 68-conductor flat ribbon cable terminated with two 68-pin connectors. Use this cable to connect a 68-pin E Series, S Series (except NI 6143), or B Series multifunction DAQ device to 68-pin accessories.

1 m 182482-01

R6850 – Combines a 68F-50M cable adapter and a standard 50-pin cable with female connectors on both ends. It is designed to adapt a 68-pin E Series, S Series, or B Series multifunction DAQ device to a third-party or custom 50-pin accessory.

1 m 776842-01

68-Pin Custom Cable Connector/Backshell Kit – A kit used to make custom cables for devices with 68-pin SCSI 2 connectors. Solder-cup contacts are available for soldering cable wires to the connector.

68-pin connector/backshell kit.....776832-01

Connector Blocks

SCC-68 – High-performance I/O terminal block for M Series and E Series DAQ devices that provides four slots for analog input and digital SCC signal conditioning modules, general-purpose breadboard areas, an IC temperature sensor for cold-junction compensation, and 68 screw terminals for direct I/O connectivity.

SCC-68 779475-01
Dimensions – 24.46 by 17.78 by 5.30 cm (9.63 by 7.0 by 2.09 in.)


SH68-68-EP


SH68-68-D1


SHC68-68M-EPM


RC68-68


SCC-68


SCB-68

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SCB-68 – Shielded I/O connector block for rugged, low-noise signal termination with 68-pin DAQ devices. It includes general-purpose breadboard areas and an IC temperature sensor for cold-junction compensation in temperature measurements.

SCB-68 776844-01
Dimensions – 19.5 by 15.2 by 4.5 cm (7.7 by 6.0 by 1.8 in.)

BNC-21xx – Shielded connector blocks with BNC connectors for easy connectivity to I/O signals. The BNC-2110 and BNC-2120 (for 68-pin M Series, S Series, and B Series) have BNC inputs for eight differential analog input signals, analog output signals, and some digital I/O signals. Other digital I/O signals are accessible through screw terminals. The BNC-2120 also provides a function generator, quadrature encoder, temperature reference, thermocouple connector, and LEDs for digital I/O signals. The BNC-2111 (for 68-pin M Series and B Series) has BNC inputs for 16 single-ended analog input signals, analog output signals, and some digital I/O signals. The unshielded version of the BNC-2111 is suitable for OEM applications. The BNC-2115 has BNC connectors for the extended I/O channels of 100-pin E Series devices (NI 6025E/6031E/6033E/6071E).

BNC-2110 777643-01
Dimensions – 29.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)
BNC-2111, shielded 779347-01
BNC-2111, unshielded 779347-02
Dimensions – 19.05 by 10.5 by 3.5 cm (7.4 by 3.5 by 2.0 in.)
BNC-2115 777807-01
Dimensions – 20.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)
BNC-2120 777960-01
Dimensions – 26.7 by 11.2 by 6.0 cm (10.5 by 4.4 by 2.4 in.)

BNC-2090A, BNC-2090 – A shielded, 1U, 19-in. rack-mountable adapter with 22 signal-labeled BNC connectors to simplify connections to your I/O signals. The accessory provides access to all analog I/O; analog and digital triggers; clocks for synchronization purposes; and two user-defined signals through BNC connectors. Digital I/O signal connectivity is provided through 29 spring terminals. The BNC-2090A includes easy access to areas where users can build custom signal conditioning circuitry including lowpass filters, highpass filters, and voltage dividers (attenuators). 68-pin SCSI connectors are featured on the front and back of the accessory, providing additional options for connecting to the data acquisition device. The BNC-2090A can connect to any 68-pin M Series (connectors 0 and 1), E Series, S Series, or B Series DAQ device. The BNC-2090A is a RoHS-compliant accessory.

For existing users of the BNC-2090, the BNC-2090A provides complete backward compatibility with existing systems. The BNC-2090A provides easier assembly/disassembly, easier access to areas for custom signal conditioning, a smaller footprint, RoHS compliance, and optimization for M Series and other NI-DAQmx supported devices. NI recommends the BNC-2090A instead of the BNC-2090 for all use cases.

BNC-2090A 779556-01
BNC-2090 777270-01
Dimensions – 48.3 by 4.4 by 18.8 cm (19.0 by 1.7 by 7.4 in.)

SC-2075 – Connector block with breadboard area for prototyping, as well as BNC and spring-terminal connectivity for 68-pin M Series, E Series, and B Series multifunction DAQ devices. The built-in ±15 V or adjustable 0 to 5 V power supply and LEDs for digital lines make the SC-2075 ideal for academic laboratories.

SC-2075 778147-90
Dimensions – 26.7 by 20.7 by 4.4 cm (10.5 by 8.2 by 1.7 in.)


BNC-2090A


BNC-2110


BNC-2111


BNC-2115


BNC-2120


TB-2706


TB-2708/9

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DAQ Accessories and Cables

TBX-68 – Connector block for easy connection of field I/O signals to 68-pin DAQ devices. The TBX-68 includes 68 screw terminals and one 68-pin male connector for direct connection to 68-pin cables. The TBX-68 is mounted in a protective plastic base with hardware for mounting on a standard DIN rail.

TBX-68 777141-01

Dimensions – 12.50 by 10.74 cm (4.92 by 4.23 in.)

TB-270x – TB-270x devices are 68-pin shielded accessories with screw terminals for I/O signals that mount directly to the front panel of 68-pin PXI DAQ modules. The TB-2705 works with PXI-6030E/6040E/6052E/6070E E Series modules and PXI-6115/612x/613x S Series modules. The TB-2706 works with 68-pin PXI M Series modules and the PXI-6143. The TB-2708 and TB-2709 provide nine SMB connectors for direct access to simultaneous sampling I/O, and an auxiliary connector for advanced timing and triggering with the MFIT-Pigtail cable. The TB-2708 works with the PXI-6115/6120 S Series modules. The TB-2709 works with the PXI-612x/613x S Series modules.

TB-2705.....778241-01

TB-2706.....779183-01

TB-2708.....778823-01

TB-2709.....779554-01

Dimensions – 10.7 by 8.6 by 2.0 cm (4.2 by 3.4 by 0.8 in.)

TB-2715 – Terminal block for PXI counter/timer devices with which you can connect signals directly without additional cables. Screw terminals provide easy connection of I/O signals. The TB-2715 latches to the front of your PXI module with locking screws and provides strain relief.

TB-2715 778242-01

Dimensions – 8.43 by 10.41 by 2.03 cm (3.32 by 4.1 by 0.8 in.)

CB-68LP, CB-68LPR – Low-cost termination accessories with 68 screw terminals for easy connection of I/O signals to 68-pin M Series, E Series, S Series, or B Series multifunction DAQ devices. They include one 68-pin male connector for direct connection to 68-pin cables and standoffs for use on a desktop or for mounting in a custom panel. The CB-68LP has a vertical-mounted 68-pin connector. The CB-68LPR has a right-angle mounted connector, and can be used with the CA-1000.

CB-68LP.....777145-01

Dimensions – 14.35 by 10.74 cm (5.65 by 4.23 in.)

CB-68LPR 777145-02

Dimensions – 7.62 by 16.19 cm (3.00 by 6.36 in.)

DAQ Signal Accessory – For demonstration of analog, digital, and counter/timer functions of DAQ devices. You can use the DAQ Signal Accessory with any 68-pin M Series, E Series, or B Series DAQ device. It features a built-in function generator, quadrature encoder, solid-state relay, IC temperature sensor, noise generator, microphone jack, thermocouple jack, four LEDs, and a digital trigger button.

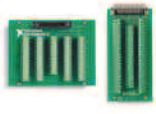
DAQ Signal Accessory 777382-01

Dimensions – 12.7 by 12.7 cm (5.0 by 5.0 in.)

PCB Mounting Connectors for Custom Accessories – Build custom accessories that connect to 68-conductor shielded and ribbon cables using these connectors.

68-pin, male, right-angle mounting 777600-01

68-pin, male, vertical mounting 777601-01



CB-68LP, CB-68LPR



DAQ Signal Accessory



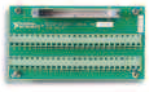
SH50-50



68M-50F



NB-1



CB-50LP

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37-Pin Accessories

Cables

DB37M-DB37F-EP – High-performance shielded 37-pin female-to-male D-Sub cable with separate analog input, analog output, and digital sections designed to reduce noise. This cable is for use with the new isolated S Series (PCI-6154) and select isolated M Series (NI 6230 and NI 6236) devices.

1 m 193737-01

SH37F-37M – 37-pin D-Sub female-to-male shielded I/O cables.

1 m 778621-01
2 m 778621-02

SH37F-P-4 – 37-pin D-Sub shielded female-to-pigtail cable for custom wiring.

4 m 778620-04

R37F-37M – 37-pin D-Sub female-to-male ribbon I/O cable.

1 m 779195-01

Connector Blocks

CB-37F-HVD – UL-listed (150 V, 2 A) 37-pin female D-Sub horizontal terminal block that mounts in line with the DIN rail.

CB-37F-HVD 779491-01

CB-37F-LP – Direct mountable connector block for 37-pin data acquisition devices. Easily accessible screw terminals and low cost make this accessory ideal for OEM applications.

CB-37F-LP.....779353-01

CB-37FV – 37-pin female D-Sub vertical terminal block that mounts perpendicular to the DIN rail.

CB-37FV 778672-01

CB-37FH – 37-pin female D-Sub horizontal terminal block that mounts in line with the DIN rail.

CB-37FH 778673-01

TB-2621 – 37-pin front-mounting PXI terminal block. High-voltage, UL-listed for CAT II, 150 VDC/VAC.

TB-2621.....779444-01

TB-37F-37CP – 37-pin female D-Sub crimp and poke termination accessory for custom cabling.

TB-37F-37CP 779185-01

TB-37F-37SC – 37-pin female D-Sub solder cup termination accessory for custom cabling.

TB-37F-37SC.....779184-01

37-Pin HV Safety Kit – Accessories for modifying two connectors with safety keying for use in high-voltage data acquisition with devices such as NI 6521.

37-Pin HV Safety Kit.....779445-01

Specialty Accessories

CA-1000 – A configurable enclosure that gives you maximum user-defined connectivity and flexibility through customized panelettes. Each enclosure can accommodate up to nine panelettes.

Dimensions – 30.7 by 25.4 by 4.3 cm (21.1 by 10.0 by 1.7 in.)

USB Accessory Kits – Connectors, labels, and screw drivers for use with USB-6008/6009 multifunction DAQ and USB-6501 digital I/O devices.

USB-6008/6009 Analog I/O Accessory Kit 779371-01
USB Digital I/O Accessory Kit 779376-01

Hi-Speed USB Cables – Designed to connect any USB data acquisition device to the USB port of your computer. They feature a B-type connector for the device-side connection and an A-type connector for the host-side connection.

1 m 184125-01
2 m 184125-02

PSH27-50F-D1 – Shielded cable that connects to the DAQCard-DIO-24 and is terminated with a 50-pin female connector that attaches directly to 50-pin accessories.

0.5 m.....776989-0R5
1 m 776989-01



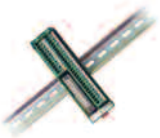
SH37F-37M



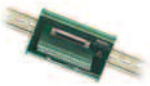
SH37F-37-P-4



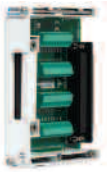
CB-37F-LP



CB-37FV



CB-37F-HVD



TB-2621

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SH-15-15, SH-15-15B – Shielded 15-conductor cables for use with the NI CF-6004. The SH-15-15 terminates in a 15-pin D-Sub connector, while the SH-15-15B terminates in bare wires for custom connectivity.
SH-15-15.....191067-0R5
SH-15-15B 191070-0R5

SCB-15 – A shielded compact connector block for use with NI CF-6004.
SCB-15 779197-01

CB-15 – DIN-rail mountable connector block for use with the NI CF-6004. Easily accessible screw terminals make this accessory great for prototyping.
CB-15 779198-01

MFIT-Pigtail – Shielded 14-conductor cable terminated with a 14-position MFIT female connector at one end and unterminated bare wires at the other end. It connects to the auxiliary connector of the TB-2708 and TB-2709 for access to digital I/O and trigger lines on various S Series PXI modules.
1 m 194123-01

Strain-Relief Accessory – Attaches to the bottom of your notebook computer or DAQPad and provides adjustable strain relief for one or two PCMCIA cables attached to DAQCard devices, or a USB cable attached to a DAQPad device.
Strain-relief accessory 777550-01

RTSI Bus Cables – Connect timing and synchronization signals among data acquisition, M Series, E Series, S Series, vision, motion, and CAN boards for PCI. For systems using long and short boards, order the extended RTSI cable.
2 boards 776249-02
3 boards.....776249-03
4 boards.....776249-04
5 boards 776249-05
Extended, 5 boards.....777562-05

Signal Conditioning

SCC – A portable modular signal conditioning system consisting of modules that plug into a low-profile shielded carrier. Choose from a variety of signal conditioning options including sensor, input, isolation, and filtering modules. SCC is compatible with M Series, E Series, and some B Series and portable devices.

SCXI – A high-performance modular signal conditioning platform that provides a front end to your M Series or E Series DAQ device. You can expand your analog inputs to 3,072 channels. SCXI offers a variety of modules for sensor conditioning, amplification, filtering, and other modules.

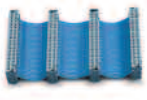
R Series Expansion Chassis – The NI cRIO-9151 is a chassis that connects directly to any digital connector on R Series intelligent DAQ devices and houses up to four C Series I/O modules for low-cost signal conditioning, I/O channel expansion, and direct connectivity. Many types of C Series modules are available, including 24-bit thermocouple inputs, IEPE accelerometer inputs, current and voltage output modules, 24 V industrial digital I/O modules, and electromechanical relay modules.


SH-15-15


CB-15


Strain-Relief Accessory


MFIT-Pigtail


RTSI Bus Cable


SCC Portable, Modular Signal Conditioning


SCXI High-Performance Signal Conditioning

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Calibration Services

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