

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:

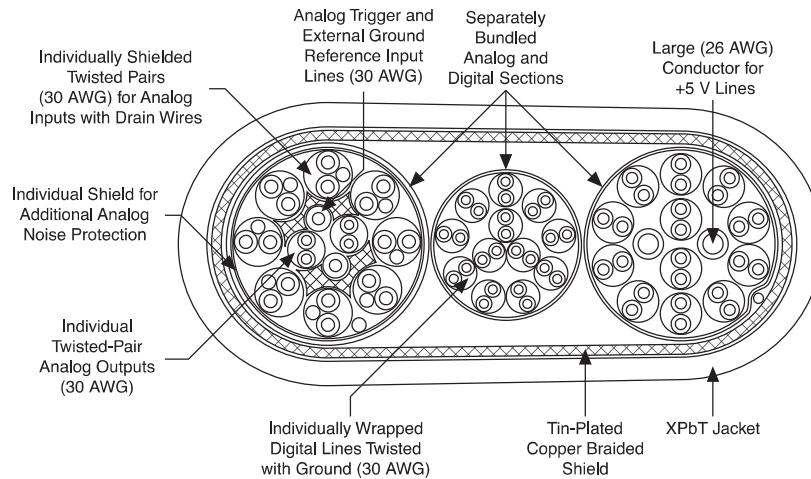


Figure 1. Enhanced-Performance Shielded Cable Used in the SHC68-68-EPM Cable

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
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

¹Connector 0 is found on all M Series devices, 0 and 1 require two cables and accessories; ²For NI 6225 and NI 6255, use SHC68-68-EPM on connector 0 and SHC68-68 on connector 1;

³Cable works with only NI 6230 and NI 6236; ⁴Use the 68M-50F-MID with the SHC68-68-EPM when connecting to 50-pin accessories; ⁵For 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
NI 6143	Low-cost	Screw terminals	0 only	R6868	CB-68LP or CB-68LPR
	Noise-reducing	Screw terminals (PXI only)	0 only	—	TB-2706
	Noise-reducing	Screw terminals	0 only	SHC68-68-EPM	SCB-68
NI 6154	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

⁶TB-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
	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

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
	Low-cost	50-pin connector	SH6950	Custom-built or third-party
		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, BNC-2111, BNC-2120, or BNC-2190
	Low-cost	50-pin connector	SH1005050	Custom-built or third-party
		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
	Low-cost	BNC terminal block	SHC68-68-EPM	BNC-2110, BNC-2111, BNC-2120, or BNC 2190
		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	
NI 6723	Unshielded	Screw terminals	R6868	CB-68LP or CB-68LPR	
		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

DAQ Accessories and Cables

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
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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
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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
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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
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SCB-100



SHC68-68-EPM



SHC68-68-RMIO



SHC68-68-RDIO



SHC68-68



SH68-C68-S

DAQ Accessories and Cables

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
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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
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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
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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
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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
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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

DAQ Accessories and Cables

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-68776844-01
 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-2110777643-01
 Dimensions – 29.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)
 BNC-2111, shielded779347-01
 BNC-2111, unshielded779347-02
 Dimensions – 19.05 by 10.5 by 3.5 cm (7.4 by 3.5 by 2.0 in.)
 BNC-2115777807-01
 Dimensions – 20.3 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)
 BNC-2120777960-01
 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-2090A779556-01
 BNC-2090777270-01
 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-2075778147-90
 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

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-68777141-01
 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-2715778242-01
 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-68LPR777145-02
 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 Accessory777382-01
 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 mounting777600-01
 68-pin, male, vertical mounting777601-01



CB-68LP, CB-68LPR



DAQ Signal Accessory



SH50-50



68M-50F



NB-1



CB-50LP

DAQ Accessories and Cables

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 m193737-01

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

1 m778621-01

2 m778621-02

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

4 m778620-04

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

1 m779195-01

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-HVD779491-01

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-37FV778672-01

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

CB-37FH778673-01

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-37CP779185-01

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

TB-37F-37SC779184-01

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 Kit779371-01

USB Digital I/O Accessory Kit779376-01

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 m184125-01

2 m184125-02

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 m776989-01



SH37F-37M



SH37F-37-P-4



CB-37F-LP



CB-37FV



CB-37F-HVD



TB-2621

DAQ Accessories and Cables

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-15-15B191070-0R5

SCB-15 – A shielded compact connector block for use with NI CF-6004.
SCB-15779197-01

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-15779198-01

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 m194123-01

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 accessory777550-01

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 boards776249-02
3 boards776249-03
4 boards776249-04
5 boards776249-05
Extended, 5 boards777562-05

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

NI Services and Support



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Hardware Services

NI Factory Installation Services

NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

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