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Find the *National Instruments TB-2715* at our website: ***Click HERE***

Counter/Timer Accessories and Cables



Figure 1. BNC-2121 Connector Block



Figure 2. CA-1000 Configurable Signal Conditioning Solution

Accessory and Cable Selection Process

Step 1. Select your counter/timer device from Table 1.

Step 2. Using Table 1 as a guide, determine which accessories are appropriate for that device. Select an accessory using Table 2 as reference.

Step 3. Using Table 1, determine the appropriate cable solution for your selected counter/timer device and accessory.

	Accessories	
	BNC-2121, CA-1000, SCB-68, TBX-68, CB-68LP, and CB-68LPR	TB-2715
Device	**Cables**	
PCI-6601, PCI-6602	R6868 or SH68-68-D1	N/A
PXI-6602, PXI-6608	R6868 or SH68-68-D1	Connects directly to the device

Table 1. Accessories and Cables for Counter/Timers

Accessory	Description	Page
BNC-2121	BNC connector block with built-in test features	350
CA-1000	Configurable connector accessory	258
SCB-68	Shielded screw connector block	351
TB-2715	Front-mount terminal block for PXI-660x	351
TBX-68	DIN-rail connector block	351
CB-68LP	Low-cost screw connector block	351
CB-68LPR	Low-cost screw connector block	351

For complete and up-to-date information about accessories, visit ***ni.com/catalog***

Table 2. Overview of Accessories

Accessories

BNC-2121 (see Figure 1)

Connector block with BNC and spring terminal connections for easy connection of I/O signals to counter/timer devices. The BNC-2121 offers spring terminals, as well as eight dedicated and six user-defined BNC connectors, which allow access to all I/O signals. This connector block is also a full-featured test accessory that provides pulse-train, trigger, and quadrature encoder signals. For the connections, refer to the BNC-2121 user guide at ***ni.com/manuals***

BNC-2121 778289-01

Dimensions – 26.7 by 11.2 by 5.5 cm (8.0 by 4.4 by 2.2 in.)

CA-1000 (see Figure 2)

Configurable signal connectivity solution for connecting counter/timers to different types of standard I/O connectors. You can also incorporate switches and LED indicators. You can place the CA-1000 under a laptop PC, on a benchtop, or in a 19 in. rack. For detailed information about this accessory, see page 258.

CA-1000 .....See page 258

Dimensions – 30.7 by 25.4 by 4.3 cm (12.1 by 10 by 1.7 in.)

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Counter/Timer Accessories

SCB-68 Shielded I/O Connector Block (See Figure 3)

Shielded I/O connector block for easy connection of I/O signals to the counter/timer devices. The screw terminals are housed in a metal enclosure for protection from noise corruption. Combined with a shielded cable, the SCB-68 provides rugged, very low-noise signal termination. The SCB-68 also includes two general-purpose breadboard areas.

SCB-68 776844-01

Dimensions – 19.5 by 15.2 by 4.5 cm (7.7 by 6.0 by 1.8 in)



Figure 3. SCB-68 Shielded I/O Connector Block

TB-2715 Terminal Block (See Figure 4)

With the TB-2715 terminal block for PXI/CompactPCI counter/timer devices, 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.)



Figure 4. TB-2715 I/O Connector Block

TBX-68 I/O Connector Block with DIN-Rail Mounting (See Figure 5)

Termination accessory with 68 screw terminals for easy connection of field I/O signals to the counter/timer devices. 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.)



Figure 5. TBX-68 I/O Connector Block

CB-68LP and CB-68LPR I/O Connector Blocks (See Figure 6)

Low-cost termination accessories with 68 screw terminals for easy connection of field I/O signals to the counter/timer devices. The connector blocks include standoffs for use on a desktop or mounting in a custom panel. The CB-68LP has a vertically mounted 68-pin connector. The CB-68LPR has a right-angle mounted connector for use with 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.)



Figure 6. CB-68LP and CB-68LPR I/O Connector Blocks

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Counter/Timer Accessories and Cables

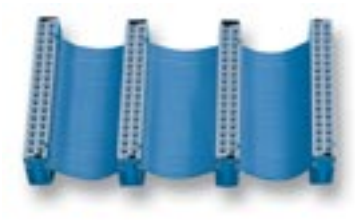


Figure 7. RTSI Bus Cable



Figure 8. Extended RTSI Bus Cable



Figure 9. SH68-68-D1 Shielded Cable



Figure 10. R6868 Ribbon Cable



Figure 11. 68-Pin Custom Cable Kit

Cables

RTSI Bus Cables (see Figures 7 and 8)

Use RTSI cables to connect timing and synchronization signals among measurement, vision, motion, and CAN boards for PCI, ISA, and some external devices, such as the DAQPad-6070E for IEEE 1394. 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
3 external devices 186464-01

SH68-68-D1 Shielded Cable (see Figure 9)

Shielded 68-conductor cable terminated with two 68-pin female 0.050 series D-type connectors. This cable connects counter/timer devices to accessories.

1 m 183432-01
2 m 183432-02

R6868 Ribbon I/O Cable (see Figure 10)

68-conductor flat ribbon cable terminated with two 68-pin connectors. Use this cable to connect a counter/timer device to an accessory.

1 m 182482-01

Custom Connectivity Components

68-Pin Custom Cable Connector/Backshell Kit (see Figure 11)

68-pin female mating connector and backshell kit for use in making custom 68-conductor cables. Solder-cup contacts are available for soldering of cable wires to the connector.

68-pin connector/backshell kit 776832-01

PCB Mounting Connectors

Printed circuit board (PCB) connectors for use in building custom accessories that connect to 68-conductor shielded and ribbon cables. Two connectors are available, one for right-angle and one for vertical mounting onto a PCB.

68-pin, male, right-angle mounting.....777600-01
68-pin, male, vertical mounting 777601-01

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