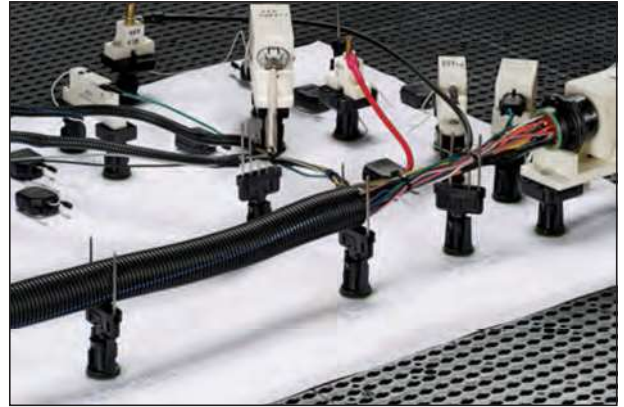## Quick-Build™ Harness Board System

A Revolutionary Modular Solution for Harness Manufacturers

The modular, reusable solution consists of 1' X 1' (305mm x 305mm) grid tiles and specially designed, repositionable accessories that improve the productivity of wire harness assembly builds by up to 18%. The Quick-Build™ Accessories are more effective than nail, magnetic, or snap-in routing fixture methods. Accessories easily twist and lock in place until you're ready to make a change for faster routing of wires and design flexibility.

Low-Volume-High-Mix (LVHM) manufacturers achieve the greatest savings due to reduced material costs — up to 65% of layout and board builds. By reducing the number of bulky plywood boards, the Quick-Build™ Harness Board System delivers more than 50% in storage space savings. Whether you need to build a variety of wire and cable assemblies to meet different customer specifications or for prototyping new harness designs, the more you build, the greater your profitability.

Quick-Build™ Starter Kit

- Kit of Quick-Build™ components and various harness board accessories allows customers to evaluate the Quick-Build™ solution by simply ordering a single part number

Part Number	Description	Std. Pkg. Qty.
QB-KIT2	Starter Kit assortment that includes our core Quick-Build™ Components essential for faster wire harness builds. Black.	1
QB-KIT2-GRY	Starter Kit assortment that includes our core Quick-Build™ Components essential for faster wire harness builds. Gray.	

Quick-Build™ Grid Tile

- Install on top of plywood backing to provide mounting surface
- Secure to plywood with user supplied screws

Part Number	Description	Std. Pkg. Qty.
QB-TILE	1' X 1' (305mm x 305mm) square base component that allows Quick-Build™ mounting pegs and platforms to create a modular harness system. One package includes 8 tiles. Black.	1 PK
QB-TILE-GRY	1' X 1' (305mm x 305mm) square base component that allows Quick-Build™ mounting pegs and platforms to create a modular harness system. One package includes 8 tiles. Gray.	

Order number of pieces required, in multiples of Standard Package Quantity.

Quick-Build™ Mounting Pegs

- Repositionable to allow user to build different harness configurations as needed
- Pointed end inserts through drawing secured to grid tiles, providing the ability to create a harness on top of a drawing

Note: Required for use with Quick-Build™ mounting platform and Quick-Build™ nail holders to provide a modular harness board system

Replacement Washers	
Part Number	Qty
QB-WASHER-Q	25

Part Number	Description	Std. Pkg. Qty
QB-MOUNT-L	Peg can be positioned and relocated. Accepts single nail holders, five nail holders, and Quick-Build™ mounting platforms. Allows accessories to rotate as needed even after mounting peg is installed into grid tile. Black.	50

Quick-Build™ Mounting Platform

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Provides the ability to rotate to allow breakouts and cable pathways to accommodate various harness design requirements
- Use Quick-Build™ mounting screws (sold separately, see page B2.45) to secure harness board accessories to the Quick-Build™ mounting platform

Part Number	Description	Std. Pkg. Qty
QB-BASE175-Q	Mounting platform that is inserted in Quick-Build™ mounting pegs 1.75" x 1.75" (44.45mm x 44.45mm). Allows elastic retainers, wire end holders, corner posts, bundle retainers and other harness board accessories to create a complete Quick-Build™ harness system. Compatible with: #4, #6, #8, and 1/4" screws. Black.	25
QB-BASE120-Q	Mounting platform that is inserted in Quick-Build™ pegs 1.2" x 1.2" (30.48mm x 30.48mm). Allows test fixtures corner posts, wire end holders, and other harness board accessories to be installed to provide a complete Quick-Build™ harness system. Compatible with #8 screw size. Screw length will vary based on test fixtures and accessories used. Note: Consider multiple QB-BASE120-Q components for large test fixtures. Black.	

Quick-Build™ Screws

- Used to secure traditional harness board accessories and test fixtures to Quick-Build™ mounting platform
- Phillips/slot combination screw style

Part Number	Description	Std. Pkg. Qty
QB-S6-500-C	#6 screw; 1/2" long	
QB-S8-500-C	#8 screw; 1/2" long	
QB-S8-750-C	#8 screw; 3/4" long	100
QB-S25-500-C	1/4" screw; 1/2" long	
QB-S25-1000-L	1/4" screw; 1" long	50

Quick-Build™ Single Nail Holder

- Requires the use of the Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of harness board nails (sold separately, see page B2.47)
- Use with single nails to create pathways and breakout channels

Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-SN1-Q	Single nail holder to accommodate one 1" nail. White	HBN1-T	
QB-SN2-Q	Single nail holder to accommodate one 2" nail. Black	HBN2-T	25
QB-SN3-Q	Single nail holder to accommodate one 3" nail. Gray	HBN3-T	

Quick-Build™ Five Nail Holder

- Requires the use of Quick-Build™ mounting pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Allows the use of up to five harness board nails (sold separately, see B2.47)
- Use with nails to create pathways and breakout channels with harness board nails

Part Number	Description	Compatible Harness Board Single Nail Part Number (see Page B2.47)	Std. Pkg. Qty.
QB-FN1-Q	Five nail holder to accommodate up to five 1" nails. White	HBN1-T	
QB-FN2-Q	Five nail holder to accommodate up to five 2" nails. Black	HBN2-T	25
QB-FN3-Q	Five nail holder to accommodate up to five 3" nails. Gray	HBN3-T	

Quick-Build Wire End Holders

- Requires the use of Quick-Build™ Mounting Pegs to provide a modular solution
- Repositionable, allowing user to build different harness configurations as needed
- Multiple sizes available to provide a securing point for different gauge wires

Part Number	Description	Std. Pkg. Qty.
QB-WEH1012-Q	Wire end holder for Quick-Build™ System. Suitable for #10 – #12 gauge wire. Holds three wires. Yellow.	
QB-WEH1416-Q	Wire end holder for Quick-Build™ System. Suitable for #14 – #16 gauge wire. Holds four wires. Blue.	25
QB-WEH1822-Q	Wire end holder for Quick-Build™ System. Suitable for #18 – #22 gauge wire. Holds six wires. Red.	

Order number of pieces required, in multiples of Standard Package Quantity.

Quick-Build™ Wire Elastic Retainers

● Requires the use of Quick-Build™ Mounting Pegs to provide a modular solution

● Repositionable, allowing user to build different harness configurations as needed

● Multiple sizes available to provide a securing point for different size bundles

Part Number	Description	Std. Pkg. Qty.
QB-RER.5-X	Quick-Build™ Peg with RER.5-S6-X pre-installed for use with Quick-Build™ System. Suitable for 1/2" bundle.	10
QB-RER.75-X	Quick-Build™ Peg with RER.75-S6-X pre-installed for use with Quick-Build™ System. Suitable for 3/4" bundle.	
QB-RER1.25-X	Quick-Build™ Peg with RER1.25-S6-X pre-installed for use with Quick-Build™ System. Suitable for 1.25" bundle.	
QB-RERBASE-X	Quick-Build™ Peg suitable for user to permanently install user-supplied RER.5-S6-X, RER.75-S6-X, or RER1.25-S6-X. Products sold separately – see below.	

Quick-Build™ Grid Tile Connector

● Optional accessory for use with grid tiles to prevent the need for plywood backing and ensure accurate alignment of grid system

● Recommended for adjacent tiles where corners of two or four tiles come together

Part Number	Description	Std. Pkg. Qty.
QB-CONN	Grid tile connector to ensure accurate alignment of Grid System. One package includes five pieces. Black	1

Traditional Harness Board Accessories

Panduit harness board accessories have been around for a long time and continue to provide easy routing and forming of wires in harness fabrication.

Harness Board Nails

● Manufactured from Nickel Plated Steel

● Smooth finish on nails prevents abrasion to wire jackets

Part Number	Description	Compatible QB Components (see Page B2.46)	Std. Pkg. Qty.
HBN1-T	Harness Board Nail - 1" long (1.65" overall).	QB-SN1-Q and QB-FN1-Q	200
HBN2-T	Harness Board Nail - 2" long (2.66" overall).	QB-SN2-Q and QB-FN2-Q	
HBN3-T	Harness Board Nail - 3" long (3.67" overall).	QB-SN3-Q and QB-FN3-Q	

Elastic Retainers – Replaceable Version

● Cable bundles are formed as individual wires are inserted

● Completed bundles can be easily removed

● The elastic band is replaceable

Replacement Elastic Part Number	Qty
RER.5E-X	10
RER.75E-X	
RER1.25E-X	
RER2.0E-X	

Part Number	Description	Compatible QB Components (see Page B2.45)	Std. Pkg. Qty.
RER.5-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.5" maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
RER.75-S6-X	Elastic retainer with replaceable elastic band. Suitable for 0.75" maximum bundle capacity.		
RER1.25-S6-X	Elastic retainer with replaceable elastic band. Suitable for 1.25" maximum bundle capacity.		
RER2.0-S6-X	Elastic retainer with replaceable elastic band. Suitable for 2.0" maximum bundle capacity.		

Elastic Retainers

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed

Part Number	Description	Compatible QB Components (see B2.45)	Std. Pkg. Qty.
ER.5-E4-X	Elastic Retainer. Suitable for 0.5" maximum bundle capacity.	QB-BASE175-Q and QB-S6-500-C	10
ER1.25-E4-X	Elastic Retainer. Suitable for 1.25" maximum bundle capacity.		

Bundle Retainers

- Funnel entry allows fast cable insertion
- Completed bundles can be easily removed

Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
BR.5-E6-C	Bundle Retainer. Suitable for 0.5" maximum bundle capacity. 1.07" standoff height. Black	QB-BASE175-Q and QB-S6-500-L	100
BR.75-E6-C	Bundle Retainer. Suitable for 0.75" maximum bundle capacity. 0.95" standoff height. Black		
BR2-1.3-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 1.32" standoff height. Black	QB-BASE175-Q and QB-S25-500-L	10
BR2-1.5-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 1.59" standoff height. Black	QB-BASE175-Q and QB-S25-1000-L	10
BR2-4-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 4.06" standoff height. Black		
BR2-6-X	Bundle Retainer. Suitable for 2.0" maximum bundle capacity. 6.02" standoff height. Black		

Corner Posts

- Designed to pre-form tight bundles at harness corners and breakouts
- Top arm rotates upward for easy removal of completed harness

Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
CPH.75-S8-X	Corner post to assist in tight corners of harness systems. 0.75" maximum bundle diameter. Center of bundle is 1.35" from surface.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
CPL.75-S8-X	Corner post to assist in tight corners of harness systems. 0.75" maximum bundle diameter. Center of bundle is 0.56" from surface.		

Wire End Holder

- Secures wire ends while harness is being fabricated
- Use with #28 thru #16 AWG wires

Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
WEH-E8-C	Use to retain end of wire in secure position. Helps when making terminations or dressing harness.	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	100

Order number of pieces required, in multiples of Standard Package Quantity.
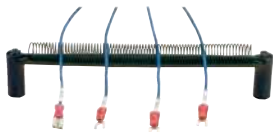
Fanning Strip System

- Holds wires in a specific orientation
- No sharp edges to damage wire insulation
- Accepts wires up to 18 AWG
- Fanning strip can remain as part of completed harness

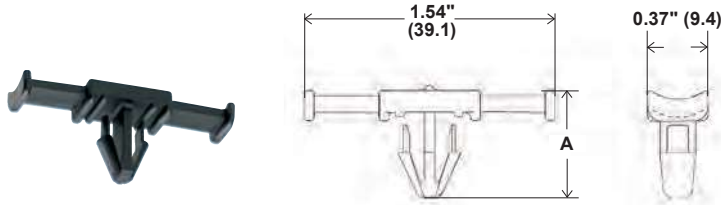| Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
FSH40-X	Fanning strip holder to elevate FS156 Fanning Strip 0.62" above surface. 6.00" long. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
FSHH-X	Fanning strip holder to elevate FS156 Fanning Strip 1.42" above surface. 3.2" long. Black		
FS156-C	Fanning strip with 76 spaces for wires up to 18 AWG. 12.1" long and 0.31" tall.	N/A	100

Spring Wire Breakout System

- Harness board spring and spring holder secures wire ends while harness is being fabricated
- Wires simply pull out from spring when harness is removed
- Each SHH Spring Holder is supplied with one rigid wire piece to hold the spring laterally and two #8 (M4), 2" (50.8mm) hex head wood screws; purchase spring separately

Part Number	Description	Compatible QB Components (see pages B2.45)	Std. Pkg. Qty.
SHH1-S8-X	Spring Wire Holder that elevates spring 1.3" above surface. Compatible with PBSC1-X spring. Black	QB-BASE120-Q or QB-BASE175-Q and QB-S8-500-C	10
SHH3-S8-X	Spring Wire Holder that elevates spring 1.3" above surface. Compatible with PBSC3-X spring. Black		
PBSC1-X	Spring compatible with SHH1-S8-X Spring Wire Holder.	NA	
PBSC3-X	Spring compatible with SHH3-S8-X Spring Wire Holder.		
PBSC6-X	Spring used independent of Spring Wire Holder. Requires 6" spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.	QB-BASE175-Q and QB-S25-500-L	
PBSC12-X	Spring used independent of Spring Wire Holder. Requires 12" spacing for mounting. Can be secured directly to Quick-Build™ Mounting Platform.		

c**RU**us **Tie Harness Mounts for Corrugated Tubing**

- Designed to be attached to the wire harness during assembly
- Cable ties can be installed by hand or with Panduit® automatic cable tie tools
- Used with harness board standoff posts

- A location tab on the mount shelf aligns with the corrugated tubing grooves to ensure proper mount location during assembly
- Natural nylon material for indoor use
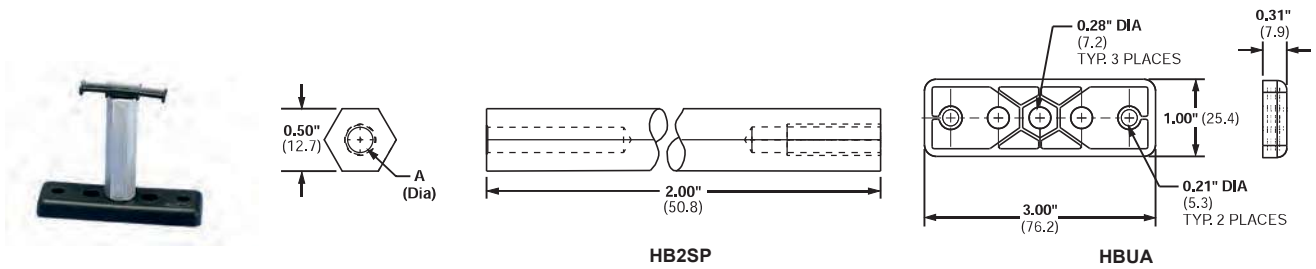- Heat stabilized nylon material (30) for high temperature applications – indoor use

1.54" (39.1)   0.37" (9.4)

A

Part Number	Used with Cable Ties‡	Maximum Panel Thickness		Panel Hole Diameter		Height A		Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm					
THMSP20-C	M, I, S	0.160	4.1	0.244 – 0.283	6.2 – 7.2	0.65	16.5	Nylon 6.6	Natural	Push Barb	100	1000
THMSP20-C30	M, I, S	0.160	4.1	0.244 – 0.283	6.2 – 7.2	0.65	16.5	Heat Stabilized Nylon 6.6	Black			
THMSP25-C	M, I, S	0.230	5.8	0.244 – 0.283	6.2 – 7.2	0.72	18.3	Nylon 6.6	Natural			
THMSP25-C30	M, I, S	0.230	5.8	0.244 – 0.283	6.2 – 7.2	0.72	18.3	Heat Stabilized Nylon 6.6	Black			

*Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard.

Harness Board Standoff Posts and Adapter

- Used to hold a push mount accessory or cable tie at a specific location on a harness board

0.50" (12.7)   A (Dia)   2.00" (50.8)

0.28" DIA (7.2) TYP. 3 PLACES   0.31" (7.9)   1.00" (25.4)   3.00" (76.2)   0.21" DIA (5.3) TYP. 2 PLACES

HB2SP   **HBUA**

Part Number	Hole Diameter A		For Use With	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm					
Posts							
HB2SP19-X	0.20	5.2	PLWP, PRWP, WS, VWS, HWS, TPM	Aluminum	Bolt – Included	10	100
HB2SP25-X	0.30	7.5	PLWP, PRWP, PLP, THMS, HCMP, PMCC				
Adapter							
HBUA-X	—	—	HB2SP19-X, HB2SP25-X	Nylon 6.6	#10 (M5) Screw	10	100

A B1 B2 B3 C1 C2 C3 C4 D1 D2 D3 E1 E2 E3 E4 E5 F G H