For years, *PANDUIT* has supplied its customers with innovative wire harness components, systems and installation tooling. *PANDUIT* offers a broad range of solutions to meet the changing challenges of routing wire in harness assembly production.

The *PANDUIT* Harness Board Accessories System has a unique product offering for all of your wire harness management needs. It provides for the fast routing and forming of wires in harness fabrication. The accessories hold the wires off the harness board at a uniform height for easy application of cable ties. For complete Harness Board System Solutions choose *PANDUIT* Harness Board Accessories, Cable Ties and Installation Tooling.



- One-stop-shopping for all your harnessing needs
- Speeds harness assembly while providing lowest installed cost
- · Reduces operator fatigue
- Provides a higher quality finished product
- Makes it easy to install, maintain and modify the wire harness
- Enables greater design flexibility

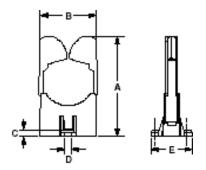
Contents	Page Number
RER Type Replaceable Elastic Wire Retainers	3
ER Type Elastic Wire Retainers	3
BR Type Bundle Retainer	4
CPH Type Corner Post	4
CPL Type Corner Post (low)	4
WEH Type Wire End Holder	4
TJF Type T-Junction Fixture	5
Fanning Strip System	
Spring Wire Breakout System	6
Harness Board Nails	6
Harness Board Platform	7
Harness Board Standoff Post	7
Tie Harness Mount Fixtures	8
Harness Board Universal Adapter	8
Tie Harness Anchor Universal Fixture	
Tie Harness Mounts — Using Two Cable Ties	9
Installation System — PAT1M/PAT1.5M Reel Fed Systems for Harness Assemblies	10
PANDUIT® Cable Ties	10

#### **PANDUIT®** Harness Board Fixtures

# Wire Retainers — RER Replaceable ElasticRetainers



As wires are individually inserted, the bundle is pre-formed. When the harness is complete, it can be easily snapped out. Three sizes available for 1/2" (12.7mm), 3/4" (19.0mm) and 1 1/4" (31.7mm) bundles.



Replacement Elastic
For economy, the elastic band can be
replaced in the RER Elastic Retainers
without removing the RER base.

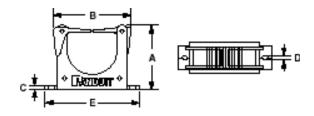
Part Number	Pkg. Qty.
RER.5E-X	10
RER.75E-X	10
RER1.25E-X	10

	Max. Dia.			Dimensions nches (mm		Material &	Mounting	Std. Pkg.	Std. Ctn.	
Part Number	In (mm)	Α	В	С	D	E	Color	Method	Qty.	Qty.
RER.5-S6-X	.5 (12.7)	1.82 (46.2)	.84 (21.3)		.141 (3.6)		<b>D</b>		10	50
RER.75-S6-X	.75 (19.0)	2.12 (53.9)	1.12 (28.4)	.18 (4.7)	.145 (3.7)	1.18 (30.0)	Black Nylon and Acetal	#6 (M3) Screw	10	50
RER1.25-S6-X	1.25 (31.8)	2.75 (69.9)	1.64 (41.7)		.145 (3.7)		Acetai		10	50

#### **ER ElasticRetainers**



ER Type retainers form wire bundles as wires are inserted. Completed bundles then snap out. Two sizes available for 1/2" (12.7mm) and 1 1/4" (31.7mm) bundles.

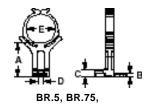


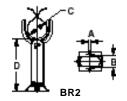
	Max. Dia.			Dimensions nches (mm		Material &	Mounting	Std. Pkg.	Std. Ctn.	
Part Number	In (mm)	Α	В	С	D	E	Color	Method	Qty.	Qty.
ER.5-E4-X	.5 (12.7)	1.00 (25.4)	1.00 (25.4)	.15	.120	1.90 (48.3)	Black	#4 (M2,5)	10	100
LN:3-L4-X	1.25	2.00	2.40	(3.8)	(3.0)	2.90	Nylon and ABS	Screws	10	100
ER1.25-E4-X	(31.8)	(50.8)	(61.0)			(73.7)	and ABO			

#### **Bundle Retainers**



Spring fingers with large lead in, facilitate fast routing of wires and easy removal of completed harness. Three sizes available for 1/2" (12.7mm), 3/4" (19.0mm) and 2.00" (50.8mm) bundles.





	Max. Dia.			Dimension nches (mm	-		Material &	Mounting	Std. Pkg.	Std. Ctn.
Part Number	In (mm)	Α	В	С	D	E	Color	Method	Qty.	Qty.
	.5	1.07				.52			100	500
BR.5-E6-C	(12.7)	(27.2)	.09	.20	.145	(13.2)		#6 (M3) Screws		
	.75	.95	(2.3)	(5.1)	(3.7)	.76		#0 (W3) 3Clews	100	500
BR.75-E6-C	(19.0)	(24.1)				(19.3)				
BR2-1.3-X	2.00	.27	1.23	2.12	1.30 (33.0)			1.4" (6MM) Screw	10	100
BR2-1.3-A-X	(50.8)	(6.9)	(31.2)	(53.8)	1.30 (33.0)	_	Black Acetal	Rubber Adhesive 2.0 lbs. Static Load	10	100
BR2-1.5-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (53.8)	1.62 (41.1)	_	Acetai		10	100
BR2-4-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (53.8)	4.00 (101.6)	_		1/4-20 (M6) Screws		100
BR2-6-X	2.00 (50.8)	.26 (6.6)	1.42 (36.1)	2.12 (53.8)	6.00 (152.4)				10	100

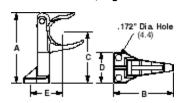
#### **Corner Posts**



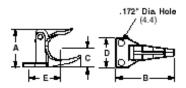


Designed to pre-form bundles at harness corners and breakouts. The top arm pivots for easy removal of completed harness.

**CPH Corner Post, High** 



**CPL Corner Post, Low** 



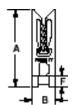
	Max. Dia.		Dimensions Inches (mm)				Material &	Mounting	Std. Pkg.	Std. Ctn.
Part Number	In (mm)	Α	В	С	D	E	Color			Qty.
CPH.75-S8-X	.75	1.78 (45.3)	1.60 (40.8)	1.35 (34.4)	.90 (22.9)	1.18 (30.0)	Black	#8 (M4) Screws	10	100
CPL.75-S8-X	(19.0)	1.08 (27.4)	1.52 (38.6)	.56 (14.2)	.88 (22.4)	1.11 (28.2)	Acetal		10	100

#### Wire End Holder



Secures wire ends with or without terminations while harness is being fabricated. Wires can be easily added or removed from the top, but will hold the wire from axial movement. Used with #28 thru #16 AWG wires. Two mounting slots .16" (4.1mm) for #8 (M4) screws.





			Dimen Inches	sions (mm)	Material &	Mounting	Std. Pkg.	Std. Ctn.		
Part Number	Α	В	С	D	E	F	Color	Method	Qty.	Qty.
WEH-E8-C	1.25 (31.8)	.38 (9.7)	.79 (20.0)	.55 (14.0)	.29 (7.4)	.18 (4.6)	Black Acetal	#8 (M4) Screws	100	1000

#### **T-Junction Fixture**

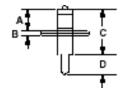


The "up" position allows forming of harness and cable tie installation



The "down" position allows easy harness removal.

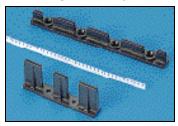
Using an integral harness board nail, the fixture moves up and down (see photos) to form "T" junction. Unique design reduces cable tie usage by 1/3 compared to other fixtures.





	Max. Dia.			Dimensions			Material &	Mounting	Std. Pkg.	Std. Ctn.
Part Number	In (mm)	Α	В	С	D	E	Color	Method	Qty.	Qty.
TJF-X	1.34 (34.0)	.75 (19.1)	.12 (3.0)	1.39 (35.1)	.70 (17.8)	1.12 (28.4)	Black Acetal and Nickel Plated Steel	Integral Nail	10	100

### Fanning Strip System



Assures that wires are held in a particular orientation in sophisticated wiring harnesses. Consists of fanning strip and fanning strip holder.

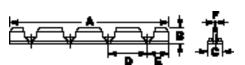
				nsions s (mm)	Material &	Mounting	Std. Pkg.		
Part Number	rt Number A B C D E F		F	Color	Method	Qty.			
FS156-C	12.0 (304.8)	.31 (7.9)	.04 (1.0)	.12 (3.0)	.156 (4.0)	.06 (1.5)	Nylon	Fanning Strip Holder	100
FSH40-X	6.0 (152.4)	.62 (15.7)	.56 (14.2)	1.50 (38.1)	.75 (19.0)	.04 (1.0)	ABS	#8 (M4)	10
FSHH-X	3.22 (82)	1.38 (35.1)	.57 (14.5)	1.12 (28.4)	.53 (13.5)	.04 (1.0)	ABS	Screw	10

Fanning Strip (FS156)



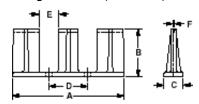
Contains evenly spaced "snap slots" to hold wires in place. No sharp edges to damage wire insulation. Becomes part of the wiring harness. Will accept wires up to 18 AWG. Used with FSH40 or FSHH holders.

Low Holder (FSH40-X)



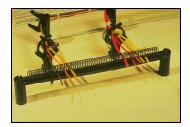
Designed to hold FS156 Fanning Strip securely in place while wires are inserted into fanning strip.

High Holder (FSHH-X)



Used in conjunction with RER.75-S6, BR.75-E6 (BR.5-E6) and CPH.75-S8. Ideal for use with PAT cable tie tool. (See Page 10.)

#### **Spring Wire Breakout System**



Consists of harness board springs and spring holders to hold wire ends taut. When harness is removed from board, wires simply pull from spring.

**PBSC Spring Wire Breakout** 



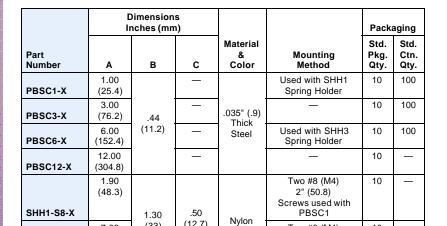
Two #8 (M4)

2" (50.8) Screws used with

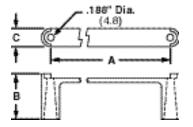
PBSC6

#### SHH Spring Holder

Each SHH Spring Holder is supplied with (1) rigid wire piece to hold the spring laterally and two #8 (M4) 2" (50.8mm) hex head wood screws. Two sizes available for use with PBSC1 and PBSC6.



(12.7)



#### **Harness Board Nails**

7.00

(177.8)



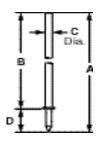
SHH3-S8-X



(33)

Speeds routing of wires. All have a uniform driving depth insured by collar stop.

10

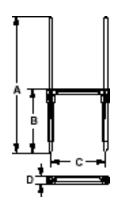


Part Number	A	В	С	D	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
HBN.75-T	1.40 (35.6)	.78 (19.8)	.073 (1.9)				200	1000
HBN1-T	1.65 (41.9)	1.03 (26.2)	.073 (1.9)				200	1000
HBN1.5-T	2.15 (54.6)	1.53 (38.4)	.082 (2.1)			Hammered	200	1000
HBN2-T	2.65 (67.3)	2.03 (51.6)	.093 (2.4)	.62 (15.9)	Hardened Tempered Steel	into Harness	200	1000
HNB2.5-T	3.17 (80.5)	2.55 (64.8)	.110 (2.8)		0.001	Board	200	1000
нвиз-т	3.67 (93.2)	3.05 (77.5)	.120 (3.0)				200	1000
HBN4-T	4.67 (118.6)	4.03 (102.9)	.144 (3.7)				200	1000

#### **Harness Board Platform**



Elevates the bundle of wires from the harness board to allow the installation of Abrasion Protection products and the use of *PANDUIT* automatic cable tie tools. The platform is used as a template to mark the location of the nails. The nails are driven into the board with a hammer. The plastic sleeve slides over each nail.



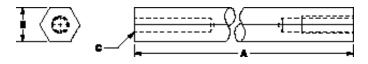
	Max.			sions (mm)				Packa	aging
Part Number	Bundle Dia. In (mm)	A	В	C	D	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
HB1P4-X	1.00	5.00 (127.0)	4.00 (101.6)	1.32				10	100
HB1P6-X	(25.4)	7.00 (203.2)	6.00 (152.4)	(33.5)	.375	Nylon platform, vinyl spacer,	Driven into	10	100
HB2P4-X	2.00	6.00 (152.4)	4.00 (101.6)	2.32	(9.5)	tempered steel nails	harness board	10	100
HB2P6-X	(51)	8.00 (203.2)	6.00 (152.4)	(58.9)				10	100

#### Harness Board Standoff Post



Used to hold a push mount accessory or push mount cable tie at a specific location on a harness board. The Standoff Post is placed over a hole in the harness board, a bolt is then threaded into the bottom of the standoff from the backside of the board and tightened. Push mount accessories are inserted into the top of the Standoff Post prior to assembly. When the assembly is complete, the harness and the attached push mount are removed from the Standoff Post.

THMSC-Tree Barb Style



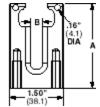
		Dimensions Inches (mm			Mounting	Std. Pkg.		<del> </del>
Part Number	Α	В	С	Material	Method		Qty.	▎ <del>▐▃▃▗▃▃</del> ▞ <del>▗</del> ▔
HB2SP19-X	2.00 (51)					10	100	
HB4SP19-X	4.00 (101.6)		.203 (5.1)			10	100	
HB6SP19-X	6.00 (152.4)	.50 (12.7)		Aluminum	(M6) Screw	10	100	1
HB2SP25-X	2.00 (51)		.295			10	100	THMSP—Push Barb Style
HB4SP25-X	4.00 (101.6)		(7.5)			10	100	Yab appears on parts
THMSPXX-C				(See Page 9 for Complete Description)				A B used with corrugated tubing.

#### Tie Harness Mount Fixture



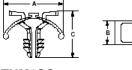
Used to hold and support the THM1SC Harness Mount. The mount is elevated from the harness board so that a cable tie can be installed by Panduit's automatic cable tie installation tools. The mount is pushed into the top of the fixture prior to assembly and pulled out of the fixture when the harness is complete.





**THMF** 

					Mounting	Std. Pkg.	Std. Ctn.
Part Number	Α	В	С	Material	Method	Qty.	Qty.
TUMEOV	2.08	.28	_			10	50
THMF2-X	(52.8)	(7.1)					
	4.08	.34	_	Aluminum	(M6)	10	50
THMF4-X	(103.6)	(8.7)		/ tidiiiiidiii	Screw		
	6.08	.34	_			10	50
THMF6-X	(154.4)	(8.7)					
THM1SC-C				Nylon (Natural Color)			
	.98	.38	.75		Push	100	1000
THM1SC-C69	(24.8)	(9.5)	(19.1)	Black			

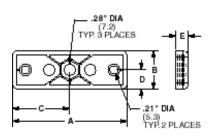


THM1SC

#### Harness Board Universal Adapter



Used with the Harness Board Standoff Post or the Harness Mount Fixture when mounting holes can not be drilled into the harness board. A bolt is inserted from the back side of the adapter and then is turned right side up. The adapter is now ready to be secured to the harness board by using self tapping screws.



Part Number	A	В	С	D	E	Material & Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
HBUA-X	3.00 (77)	1.00 (25.4)	1.50 (38.1)	.50 (12.7)	.31 (7.9)	Black Nylon	Wood Screw	10	100

## Tie Harness Mounts — Using Two Cable Ties



Tie Harness Mounts are designed to be attached to the wire harness during assembly with 2 cable ties. Ties can be installed by hand or, more efficiently, with *PANDUIT* Automatic Cable Tie Tooling. Use with Harness Board Standoff Posts and Tie Harness Mount Fixtures (See pages 7 & 8). Available with or without corrugated tubing location tab.



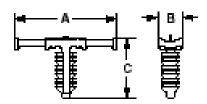




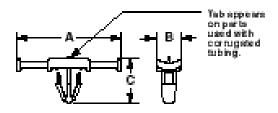
THMSC

THMSP

THMSC—Tree Barb Style



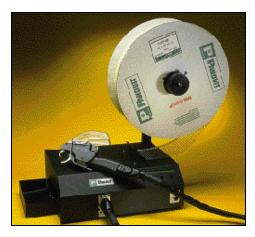




	Used			nsions s (mm)		Panel Dir	nensions						Packa	aging	
Part Number	With Cable Ties**	A	В	С	D	Thickness Max.	Hole Diameter	Material	Color	Where Used	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.	Bulk Pkg. Qty.	Bulk Ctn. Qty.
TREE MOUNT S				ATED	TUBII	NG—A spec	cially designe	ed location ta	b on the moun	it shelf aligns v	vith groove:	s in corr	ugated t	ubing e	nsuring
THMSC35-C639 THMSC35-C630	M, I, S	1.54 (39.1)	.37 (9.5)	.46 (11.7)	_	.25 (6.4)	.244268 (6.2 - 6.8)	Heat Stabilized Nylon	Natural Black	Indoors/ High Temp.	Tree Barb	100 100	1000 1000	1000 1000	5000 5000
FOR DISCRETE	WIRING	The	re is no	location	n tab fo	r application:	s not requirin	g the use of	corrugated tub	oing.					
THMSP20F-C				.47	_	.16		Nylon	Natural	Indoors		100	1000	1000	5000
THMSP20F-C30	M 1 0	1.54	.37	(11.9)		(4.1)	.244283	Heat Stabilized Nylon	Black	Indoors/ High Temp.	Push	100	1000	1000	5000
THMSP25F-C	M, I, S	(39.1)	(9.5)	.54	_	.23	(6.2 - 7.2)	Nylon	Natural	Indoors	Barb	100	1000	1000	5000
THMSP25F-C30				(13.7)		(5.8)		Heat Stabilized Nylon	Black	Indoors/ High Temp.		100	1000	1000	5000

 $Cable\ Tie\ Cross\ Section\ Sizes:\ M=Miniature,\ I=Intermediate,\ S=Standard,\ LH=Light\ Heavy\ and\ H=Heavy.$ 

#### PAT1M/PAT1.5M Automatic Cable Tie Installation System

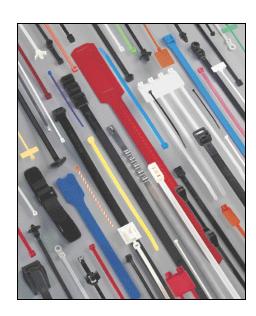


- System consists of a tool head, dispenser, feeder hose and reel of continuously molded cable ties (5000 per reel).
- System installs a cable tie in less than one second
- On-line help menu in English, Spanish, French, German or Italian
- Adjustable tension control
- Ergonomic and lightweight, no counter balance required
- Optional bench mount available

Part Number	Description	Std. Pkg. Qty.
PAT1M	Tool head for cable ties up to .82" (21mm) bundle diameter	1
PAT1.5M	Tool head for cable ties up to 1.3" (33mm) bundle diameter	'
PDM	Stationary dispenser	1
PHM1	3.2 ft (1m) feeder hose	
PHM2	6.5 ft (2m) feeder hose	1
РНМ3	9.8 ft (3m) feeder hose	
PATMBM	Bench mount and foot pedal for PAT1M/PAT1.5M system	1
PDH10-37	Airline	1
PL283N1	Filter regulator	1

- Slim, ergonomically designed handle for operator comfort and greater productivity
- Right or left hand operation

#### **PANDUIT®** Cable Ties — World Leader in Cable Ties and Harness Board Accessories



Panduit is the world's largest producer of cable ties and accessories, offering you the most complete selection of sizes, styles and materials. For harness manufacturing applications, *PANDUIT*'s complete system of cable ties, harness board accessories and installation tooling provides the highest quality at the lowest installed cost. In addition, *PANDUIT* continually develops new cable tie and harness board accessories to meet your changing application challenges.

PANDUIT Cable Ties, Accessories and Installation Tooling are manufactured in an environment committed to design innovation, high quality and knowledgeable service to our customers. PANDUIT Cable Ties, Harness Board Accessories and Tooling provide system solutions for fast routing and forming as well as reliable and economical installations.

For more than 45 years, *PANDUIT* offers you the complete system for successful harness applications.

## It's Easy to Obtain PANDUIT® Products Just Call Your Panduit Sales Office Listed Below for the Names of Distributors Near You

ALABAMA Birmingham	(205)290-2703	MAINE	(888) 506-5400	NORTH CAROLINA Greensboro	(336)854-1626
Huntsville	(888) 506-5400	MARYLAND Eastern	•	Orconsporu	(330)034-1020
i iui itoviiic	(000) 000-0400			NORTH DAKOTA	
ALASKA		Baltimore	(888) 506-5400		(612)046 0540
-	(007)562 5002	MADVIAND	_	Minneapolis, MN	(612)946-9510
Anchorage	(907)562-5663	MARYLAND Wester		OUIO	
ADIZONA		Pittsburgh, PA	(412)486-8488	OHIO	(000) 500 500
ARIZONA	(000)500 5400			Cincinnati	(888) 506-5400
Gilbert	(888)506-5400	MASSACHUSETTS		Cleveland	(888) 506-5400
		N. Andover	(978)681-0451	Columbus	(614)888-6224
ARKANSAS				OKI AIIOTT	
Little Rock	(501)455-4506	MASSACHUSETTS		OKLAHOMA	(405)0:0:0=:
			(888) 506-5400	Oklahoma City	(405)842-8371
CALIFORNIA					
Cupertino	(408)342-1200	MICHIGAN		OREGON	
Santa Fe Springs	(562)921-4423	Detroit	(248)577-5376	Portland	(888) 506-5400
Sacramento	(530)885-6591	Grand Rapids	(888) 506-5400		
		·	•	PENNSYLVANIA	
COLORADO	(888) 506-5400	MINNESOTA		Philadelphia	(610)941-1155
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