Harness Board Accessories – Complementary Products from Panduit

**Fully Automatic Cable Tie Installation Systems**

A complete single-source solution for high volume harnessing, assembly, fastening, and packaging applications. With cycle times of less than one second, the systems are up to six times faster than conventional manual cable tie installations.

**Abrasion Protection Products**

Panduit Abrasion protection products provide an economical and easy way to insulate, protect, bundle, and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications.

**Key Features**

- Large selection of board-mounted accessories
  - Comprehensive and versatile offering ensures there is a product to fit virtually every harness board application
- A wide range of sizes
  - Panduit harness board accessories can be used to manage wire configurations up to 2 inches bundle diameter for maximum flexibility
- Uniform standoff height
  - Accessories space the wire bundle at a uniform distance and height from the harness board to allow simple cable tie application using manual or automatic tooling to speed installation
- Mounts designed to work with harness board accessories
  - Panduit mounts can be integrated into the wiring harness at the harness board to simplify deploying the harness onto the finished assembly to speed installation
- Snap-in, snap-out functionality
  - Harness board accessories hold the wires in a tight bundle, yet allow completed harness to be easily removed by lifting upward on the harness
- Spring wire breakout and wire end holders
  - Individual wires are held in the bundle to maintain harness structure while allowing consistent termination of wires

**Product Bulletin Number**

SA-WACB20

Replaces SA101N556-WA

8/2010

www.panduit.com
Harness Board Accessories – Wire Retainers

**Elastic Retainers**

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed
- The elastic band is replaceable
- Forms cable junctions
- Fixture moves down for easy harness removal
- Designed to pre-form tight bundles at harness corners and breakpoints
- Top arm rotates upward for easy removal of completed harness

**Elastic Retainers – Low Profile**

- Cable bundles are formed as individual wires are inserted
- Completed bundles can be easily removed
- Uniform driving depth is insured by a collar stop
- Smooth finish on nails prevents abrasion to wire jackets
- Speed routing of wires
- Top arm rotates upward for easy removal of completed harness
- Fixture moves down for easy harness removal

**Bundle Retainers**

- Funnel entry allows fast cable insertion
- Completed bundles can be easily removed
- Color: Black
- Uniform driving depth is insured by a collar stop
- Smooth finish on nails prevents abrasion to wire jackets

**Replacement Elastic**

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

**Bundle Retainers**

- Funnel entry allows fast cable insertion
- Completed bundles can be easily removed
- Color: Black
- Uniform driving depth is insured by a collar stop
- Smooth finish on nails prevents abrasion to wire jackets

**Harness Board Nails**

- Uniform driving depth is insured by a collar stop
- Hammered into harness board

**Corner Posts**

- Top arm rotates upward for easy removal of completed harness
- Fixture moves down for easy harness removal
- Forms cable junctions

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**Part Number**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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**Harness Board Accessories – Wire Routing**

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**Harness Board Accessories – Wire Routing**

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**T-Junction Fixture**

- Forms cable junctions
- Fixture moves down for easy harness removal
- Speed routing of wires
- Uniform driving depth is insured by a collar stop
- Smooth finish on nails prevents abrasion to wire jackets

---

**Corner Posts**

- Top arm rotates upward for easy removal of completed harness
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For economy, the elastic band can be replaced in the RER Elastic Retainers without removing the RER base.

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**Bundle Retainers**

- Color: Black

**Harness Board Accessories – Wire Retainers**

- Designed to pre-form tight bundles at harness corners and breakouts

**Harness Board Accessories – Wire Routing**

- Top arm rotates upward for easy removal of completed harness

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- Fixture moves down for easy harness removal

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**Corner Posts**

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- Forms cable junctions
- Fixture moves down for easy harness removal

**Harness Board Nails**

- Smooth finish on nails prevents abrasion to wire jackets
Harness Board Accessories – Wire Termination

**Wire End Holder**
- Secures wire ends while harness is being fabricated
- For indoor use only
- Used with #28 thru #16 AWG wires

**Spring Wire Breakout System**
- Harness board spring and spring holder holds wire ends secure 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 inch (50.8mm) hex head wood screws; purchase spring separately
- Fanning strip system can remain as part of completed harness
- Will accept wires up to 18 AWG
- Fanning strip can remain as part of completed harness

**Fanning Strip System**
- Holds wires in a specific orientation
- No sharp edges to damage wire insulation
- Wires simply pull out from spring when harness is removed

---

Harness Board Accessories – Tie Mount Fixtures

- 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 to hold a push mount accessory or cable tie at a specific location on a harness board
- Available with or without corrugated tubing location tab
- Natural nylon material for indoor use
- Heat stabilized nylon material (30) for high temperature applications – indoor use

---

**Tie Harness Mounts – Nylon and Heat Stabilized Nylon 6.6**
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- No sharp edges to damage wire insulation
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**Fanning Strip System**
- Holds wires in a specific orientation
- No sharp edges to damage wire insulation
- Will accept wires up to 18 AWG
- Fanning strip can remain as part of completed harness

---

Harness Board Standoff Posts and Adapter

**Tie Harness Mounts – Nylon and Heat Stabilized Nylon 6.6**
- Designed to be attached to the wire harness during assembly
- Cable less can be installed by hand or with Panduit automatic cable tie tools
- With harness board standoff posts
- Available with or without corrugated tubing location tab
- Natural nylon material for indoor use
- Heat stabilized nylon material (30) for high temperature applications – indoor use

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Material</th>
<th>Color</th>
<th>Mounting Method</th>
<th>Std. Pkg. Qty</th>
<th>Std. Ctn. Qty</th>
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<tr>
<td>WEH-E8-C</td>
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<tr>
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<td>SHH1 Spring Holder</td>
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<td>PBSC3-X</td>
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<td>PBSC5-X</td>
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<td>SHH3 Spring Holder</td>
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<th>Maximum Panel Thickness</th>
<th>Panel Hole Diameter</th>
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<th>Std. Ctn. Qty</th>
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<tbody>
<tr>
<td>THMPS00-C</td>
<td>M, L, S</td>
<td>4.1</td>
<td>244 – 283</td>
<td>6.2 – 7.2</td>
<td>Nylon 6.6</td>
<td>Natural Push barb</td>
<td>100</td>
<td>1000</td>
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<tr>
<td>THMPS00-C30</td>
<td>M, L, S</td>
<td>4.1</td>
<td>244 – 283</td>
<td>6.2 – 7.2</td>
<td>Heat Stabilized Nylon 6.6</td>
<td>Natural Push barb</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>THMPS05-C</td>
<td>M, L, S</td>
<td>5.8</td>
<td>244 – 283</td>
<td>6.2 – 7.2</td>
<td>Nylon 6.6</td>
<td>Natural Push barb</td>
<td>100</td>
<td>1000</td>
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<tr>
<td>THMPS05-C30</td>
<td>M, L, S</td>
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<td>244 – 283</td>
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<td>Heat Stabilized Nylon 6.6</td>
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<table>
<thead>
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<th>For Use With</th>
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<th>Std. Ctn. Qty</th>
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<td>HB2SP19-X</td>
<td>PLWP, PWWP, WS, VWS, HWWS, TPM</td>
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<td>100</td>
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<td>HB2SP25-X</td>
<td>PLWP, PWWP, PLU, TMM, HCMF, PMAC</td>
<td>Aluminum M6 Screw</td>
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<td>HB2SP5-X</td>
<td>HCSPP19X, HB2SP25-X</td>
<td>Nylon 6.6 #10 (M5) Screw</td>
<td>10</td>
<td>100</td>
<td></td>
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</tbody>
</table>

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**FOR CORRUGATED TUBING** – A location tab on the mounting shell aligns with the corrugated tubing grooves to ensure proper mount location during assembly

**FOR DISCRETE WIRING** – No location tab
Harness Board Accessories – Tie Mount Fixtures (Continued)

Automatic Cable Tie Mounts

- Multiple sizes work with industry standard panel thickness and hole diameters for greater application flexibility
- Low profile design keeps bundle close to mounting surface saving space where tight assemblies are required, and providing greater protection for bundles in high vibration applications
- Load rating of mounts supports compatible BT1.5M-XMR and PLT1.5M-XMR cable ties

Harness Board Fixtures

- Automatic alignment orients the tool head with the mount for reliable feeding of the cable tie through the mount to speed installation
- Multiple fixture configurations allow mounting in horizontal, vertical, or 45° orientation to reduce installation time and improve ergonomics
- Color designation ensures inserts and mounts are correctly matched
- Integrated switch* capability enables placement of a switch to detect the mount’s presence providing an input to a quality control system, eliminating the need for additional inspection
- Activation device on harness board fixture prevents tool from operating unless it is properly engaged in the fixture for operator safety

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Mounting</th>
<th>Color</th>
<th>Material</th>
<th>Std. Pkg. Qty*</th>
<th>Std. Ctn. Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM-M</td>
<td>Base</td>
<td>Screw base to harness board with 1/4” screws</td>
<td>Black</td>
<td>Acetal</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>ATMW187-M</td>
<td>Insert for ATM-W187 mount</td>
<td>Snaps into ATM-M</td>
<td>Yellow</td>
<td>Acetal</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>ATMW250-M</td>
<td>Insert for ATM-W250 mount</td>
<td>Snaps into ATM-M</td>
<td>Red</td>
<td>Acetal</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>ATWMXR</td>
<td>Used for cable tie installations where mounts are NOT required</td>
<td>Snaps into ATM-M</td>
<td>Black</td>
<td>Acetal</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>ATMC</td>
<td>Clamp used to secure the ATM-M (base) in a vertical or 45° position</td>
<td>Screw clamp to harness board with 1/4” screws</td>
<td>Black</td>
<td>Steel</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

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

*The Omron Electronics D2SW-3L1HS switch is compatible with the ATM system. Similar switches from other manufacturers may also be suitable.

Omron is a registered trademark of Omron Corporation.
Harness Board Accessories – Tie Mount Fixtures (Continued)

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- Activation device on harness board fixture prevents tool from operating unless it is properly engaged in the fixture for operator safety

### Automatic Cable Tie Mounts

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

### Harness Board Fixtures

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<th>Description</th>
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<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMW187-M</td>
<td>Base</td>
<td>Screw base to harness board with 1/4” screws</td>
<td>Black</td>
<td>Acetal</td>
</tr>
<tr>
<td>ATMW187-M20</td>
<td>Insert for ATMW187 mount</td>
<td>Snaps into ATMW187 Base</td>
<td>Yellow</td>
<td>Acetal</td>
</tr>
<tr>
<td>ATMW250-M</td>
<td>Insert for ATMW250 mount</td>
<td>Snaps into ATMW250 Base</td>
<td>Red</td>
<td>Acetal</td>
</tr>
<tr>
<td>ATMW250-M20</td>
<td>Insert for ATMW250 mount</td>
<td>Snaps into ATMW250 Base</td>
<td>Red</td>
<td>Acetal</td>
</tr>
<tr>
<td>ATMW250-M30</td>
<td>Insert for ATMW250 mount</td>
<td>Snaps into ATMW250 Base</td>
<td>Red</td>
<td>Acetal</td>
</tr>
<tr>
<td>ATMC</td>
<td>Clamp used to secure the ATMW (base) in a vertical or 45° position</td>
<td>Screw clamp to harness board with 1/4” screws</td>
<td>Black</td>
<td>Steel</td>
</tr>
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</table>

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A complete single-source solution for high volume harnessing, assembly, fastening, and packaging applications. With cycle times of less than one second, the systems are up to six times faster than conventional manual cable tie installations.

**Abrasion Protection Products**
Panduit Abrasion protection products provide an economical and easy way to insulate, protect, bundle, and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications.

**Terminals, Disconnects, Ferrules and Splices**
Connectors are available loose piece for manual installation and continuously molded for high volume automated installation. Panduit’s manual and automated installation tooling improve productivity and reliability for industrial settings.

Harness Board Accessories
Panduit harness board accessories allow an installer to quickly configure a specific arrangement of wires, to aid in required wire bundling and termination. Panduit’s comprehensive line of harness board accessories can significantly reduce the labor input required for field installation of wires and cables and simplify harness board operations. These products hold wire bundles at a uniform height from a harness board to ease manual or automatic cable tie installation. These accessories help maintain end product consistency, reduce costly rework and maximize workplace safety.

**Key Features**
- Large selection of board-mounted accessories
- A wide range of sizes
- Uniform standoff height
- Mounts designed to work with harness board accessories
- Spring wire breakout and wire end holders

**Benefits**
- Comprehensive and versatile offering ensures there is a product to fit virtually every harness board application
- Panduit harness board accessories can be used to manage wire configurations up to 2 inches bundle diameter for maximum flexibility
- Accessories space the wire bundle at a uniform distance and height from the harness board to allow simple cable tie application using manual or automatic tooling to speed installation
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For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com or by phone: 800-777-3300 and reference WACB20

Dimensions are in inches (Dimensions in parentheses are metric)