

# Fir Tree Harness Mounts

## specifications

Fir tree harness mounts shall provide over fifty pounds of pull-out force when attached to wire harness assemblies, cables, and corrugated loom tubing. Suitable attachment methods include vinyl tape, Mylar\* tape, and cable ties.

The winged mounts shall be designed for pre-installation, allowing the finished wire harness to be installed in 6.3 to 7.1mm through holes. The fir tree barb design shall be compatible with all existing fixtures and automatic inspection systems and insert into a wide range of panel thicknesses and hole sizes with a maximum insertion force of 14 lbs.

The preferred material for transportation and OEM mounts and cable tie assemblies is heat stabilized Nylon 6.6.



## technical information

|                                       |                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material:</b>                      | Heat stabilized Nylon 6.6                                                                                                                                                  |
| <b>Flammability:</b>                  | Meets UL94 V-2, passes FMVSS 302                                                                                                                                           |
| <b>Color:</b>                         | Black and Natural                                                                                                                                                          |
| <b>Application temperature range:</b> | -40°C to 115°C (-40°F to 239°F) continuous                                                                                                                                 |
| <b>Chemical resistance @ 21°C:</b>    | Excellent resistance to common transportation fluids including: ethylene glycol, gasoline, jet fuel, hydraulic fluid, transmission fluids and 10% sodium chloride solution |
| <b>RoHS compliant:</b>                | Meets 2000/53/EC ELV standards and all industry standards for hazardous material content                                                                                   |

## key features and benefits

|                                                                                                                  |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unique alternating barb design</b>                                                                            | Provides increased retention and lower insertion force, reducing operator fatigue and improving productivity                                                             |
| <b>36mm or 55mm tabs</b>                                                                                         | Provides options for fastening methods allowing greater design flexibility                                                                                               |
| <b>Heat stabilized Nylon 6.6</b>                                                                                 | Rated for service conditions -40°C to 115°C (-40°F to 239°F), providing an extended service life and high temperature resistance                                         |
| <b>Production Parts Approval Process (PPAP), 3-D, and International Materials Data Sheet (IMDS) capabilities</b> | Meets the needs of Verband der Automobilindustrie (VDA) and Automotive Industry Action Group (AIAG) compliant documentation, allowing parts to be listed in IMDS site ID |

## applications

PANDUIT fir tree harness mounts are a reliable and cost-effective solution for securing wire harness assemblies, cables and corrugated loom tubing in the automotive, marine, white goods, heavy equipment and

mass transit-rail markets. Designed for 6.3 to 7.1mm through holes and .8 to 7.0mm panel thicknesses, the fir tree harness mounts insert easily and exceed manufacturers' requirements for primary wire harness anchors.

\*Mylar is a registered trademark of E.I. du Pont de Nemours and Company.

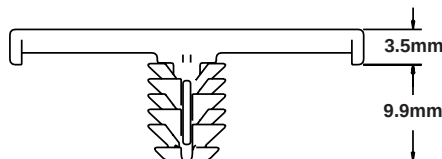
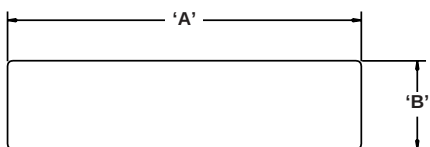
### Fir Tree Harness Mounts

|                             |                |
|-----------------------------|----------------|
| <b>55mm (2.20") overall</b> |                |
| <b>length, natural:</b>     | THMSC55H07-M39 |
| <b>55mm (2.20") overall</b> |                |
| <b>length, black:</b>       | THMSC55H07-M30 |
| <b>36mm (1.40") overall</b> |                |
| <b>length, natural:</b>     | THMSC36H07-M39 |
| <b>36mm (1.40") overall</b> |                |
| <b>length, black:</b>       | THMSC36H07-M30 |

# Fir Tree Harness Mounts

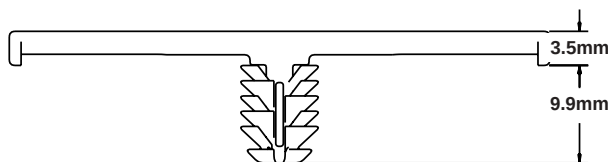
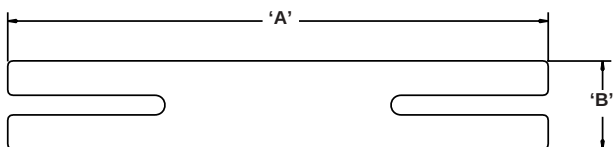
## 36mm Fir Tree Harness Mounts

| Part Number    | Color   | Used with Cable Ties | Overall Length A |      | Overall Width B |     | Panel to Top of Mount |     | Panel Thickness Range |          | Hole Size Range |           | Std. Pkg. Qty. | Bulk Pkg. Qty. |
|----------------|---------|----------------------|------------------|------|-----------------|-----|-----------------------|-----|-----------------------|----------|-----------------|-----------|----------------|----------------|
|                |         |                      | In.              | mm   | In.             | mm  | In.                   | mm  | In.                   | mm       | In.             | mm        |                |                |
| THMSC36H07-M39 | Natural | M, I, S              | 1.40             | 36.0 | .354            | 9.0 | .138                  | 3.5 | .030 – .276           | .8 – 7.0 | .248 – .276     | 6.3 – 7.1 | 100            | 1000           |
| THMSC36H07-M30 | Black   | M, I, S              | 1.40             | 36.0 | .354            | 9.0 | .138                  | 3.5 | .030 – .276           | .8 – 7.0 | .248 – .276     | 6.3 – 7.1 |                |                |



## 55mm Fir Tree Harness Mounts

| Part Number    | Color   | Used with Cable Ties | Overall Length A |      | Overall Width B |     | Panel to Top of Mount |     | Panel Thickness Range |          | Hole Size Range |           | Std. Pkg. Qty. | Bulk Pkg. Qty. |
|----------------|---------|----------------------|------------------|------|-----------------|-----|-----------------------|-----|-----------------------|----------|-----------------|-----------|----------------|----------------|
|                |         |                      | In.              | mm   | In.             | mm  | In.                   | mm  | In.                   | mm       | In.             | mm        |                |                |
| THMSC55H07-M39 | Natural | M, I, S              | 2.20             | 55.0 | .354            | 9.0 | .138                  | 3.5 | .030 – .276           | .8 – 7.0 | .248 – .276     | 6.3 – 7.1 | 100            | 1000           |
| THMSC55H07-M30 | Black   | M, I, S              | 2.20             | 55.0 | .354            | 9.0 | .138                  | 3.5 | .030 – .276           | .8 – 7.0 | .248 – .276     | 6.3 – 7.1 |                |                |



## Recommended Cable Ties

| Part Number    | Color | Material                  | Length |     | Width |     | Thickness |     | Max. Bundle Diameter |    | Min. Loop Tensile Strength |                 | Std. Pkg. Qty. | Bulk Pkg. Qty. |
|----------------|-------|---------------------------|--------|-----|-------|-----|-----------|-----|----------------------|----|----------------------------|-----------------|----------------|----------------|
|                |       |                           | In.    | mm  | In.   | mm  | In.       | mm  | In.                  | mm | In.                        | mm <sup>‡</sup> |                |                |
| PLT1M-M30      | Black | Heat Stabilized Nylon 6.6 | 3.9    | 99  | .098  | 2.5 | .043      | 1.1 | .87                  | 22 | 18                         | 80              | 100            | 1000           |
| PLT1.5I-M30    | Black | Heat Stabilized Nylon 6.6 | 5.6    | 142 | .142  | 3.6 | .045      | 1.1 | 1.38                 | 35 | 40                         | 178             |                |                |
| PLT1.5M-XMR30* | Black | Heat Stabilized Nylon 6.6 | 5.6    | 142 | .100  | 2.5 | .036      | 0.9 | 1.31                 | 33 | 18                         | 80              |                |                |
| PLT2S-M30      | Black | Heat Stabilized Nylon 6.6 | 7.4    | 188 | .190  | 4.8 | .052      | 1.3 | 1.88                 | 48 | 50                         | 222             |                |                |

\*For use with PAT1.5M Automatic Cable Tie Installation System

‡Order in multiples of standard package quantities

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