Assembly Efficiency. Harness Survival.

3M™ Solutions for High Performance Wire Harnesses
3M solutions help wire harnesses achieve high performance in challenging conditions

Today’s wire harnesses face a variety of challenges including high temperatures, abrasion, and exposure to such elements as water, diesel, and crude oil. These evolving challenges require a partner that can provide technical support, a variety of solutions, and continuity of service.

3M offers an impressive mix of products that protect wire harnesses in harsh environments and can help make the harness manufacturing process more efficient.

3M™ products can be used in several different applications in wire harness assembly
<table>
<thead>
<tr>
<th>Heat Shrink Tubing</th>
<th>Conductive &amp; Insulating Tapes</th>
<th>Resins</th>
</tr>
</thead>
</table>
| 3M offers durable Heat Shrink Tubing which protects a wide variety of applications in extreme conditions. Use it for:  
  - Insulating  
  - Protecting  
  - Bundling  
  - Labeling | 3M™ Insulating and Conductive Tapes are made from a broad range of backings and adhesives for demanding applications. Use them for:  
  - Insulating  
  - Sealing  
  - Protecting  
  - Mechanical and chemical protection  
  - Bundling  
  - Shielding  
  - Labeling | 3M™ Scotchcast™ Electrical Liquid Resins are a two-part, 100% solid, electrical-grade system with easy mixing ratios and a range of flexibility and viscosity. Use them for:  
  - Insulating  
  - Sealing  
  - Chemical resistance |

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<thead>
<tr>
<th>Vinyl Tape &amp; Mastics</th>
<th>Terminals, Connectors, Cable Ties, and Wire I.D.</th>
<th>Cold Shrink Insulators</th>
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</table>
| Look to 3M, the company which invented vinyl electrical tape, for multiple tape solutions with:  
  - Reliable mechanical protection  
  - Environmental sealing  
  - Electrical insulation integrity  
  3M also offers self-fusing mastic insulation for insulating and sealing on odd shapes. | Managing wire and cable segments can be easier and more effective using electrical supplies from 3M. These solutions include the broad range of 3M™ Terminals and Wire Connectors plus tough 3M™ Cable Ties and Durable 3M™ Identification Systems. Use them for:  
  - Bundling  
  - Connecting  
  - Labeling | These tubular sleeves form a dynamic, compressive environmental seal with little training and no tools or heat. Use them for:  
  - Insulating  
  - Sealing |
Learn more about 3M™ Wire Harness Products

Put the power of 3M science to work and discover what 3M Electrical OEM can do for your business. Contact us at 1.800.676.8381 or visit www.3M.com/oem to learn more.

3M™ Products for Wire Harnesses – Applications

<table>
<thead>
<tr>
<th>Products</th>
<th>Bundling</th>
<th>Insulating</th>
<th>Sealing</th>
<th>Mechanical Protection</th>
<th>Chemical Protection</th>
<th>Shielding</th>
<th>Connection</th>
<th>Labeling</th>
<th>Worker Safety</th>
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Find out more about 3M solutions for your motor and generator applications, call 800.676.8381 or visit www.3M.com/oem

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