Pre-fluxed solder preform insures repeatability upon installation. Durable, tough outer jacket of semi-rigid fluoroplastic, with tough, fluoroplastic heat shrink insulation outer sleeve. Color coded stripe indicates specific wire size range. Solder rings change color to indicate complete termination (optional). AS81824/1 QPL Listed product. Protection against low and high temperatures, mechanical abuse, and a low total installed cost. RoHS compliant, lead-free.
Welcome to Sumitomo Electric Interconnect Products, Inc.

Since our inception in 1985, Sumitomo Electric Interconnect Products, Inc. (SEIP) has become one of the leading-edge technology manufacturers, producing state-of-the-art SUMITUBE® Heat Shrinkable Tubing, STS Solder Termination Sleeves, SumiMark® and Sumitag™ Thermal Transfer Marking Systems. Our North American Facility in San Marcos, California is the center of our Manufacturing, Sales, Fulfillment and Innovation.


Sumitomo products are the simple and superior solutions for the challenging and critical applications found in Military, Defense and Aerospace Industries.

For more than twenty years, industry leading Military and Aerospace manufacturers have come to rely on the field proven performance of Sumitomo products. Sumitomo manufactures a wide variety of COTS, (commercial-off-the-shelf), and agency specified products. Sumitomo products are durable and reliable for EWIS (Electrical Wiring Interconnect Systems) applications.

Sumitomo…..A lifetime of reliability

Sincerely,
Nobuyoshi Fujinami
President

Sumitomo Electric Interconnect Products, Inc.
915 Armorlite Drive
San Marcos, CA 92069-1440

*Will be superseded by AS23053 in 2014
**STS Solder Termination Sleeves**

*STS Solder Termination Sleeves* provide the most reliable means of terminating a wide variety of *shielded cables, wire-to-wire or wire-to-pin style connections*. They *solder, seal, insulate*, and *protect* critical connections in one simple step. STS devices are available for low and high temperature cables and come in a range of sizes, with or without preinstalled lead wires or braid conductors. Lead wires come in many choices of color, AWG sizes and types.

They conform to *SAE-AS83519 and NAS 1744, 1745 & 1746* standards.

- Pre-fluxed solder preform insures repeatability upon installation
- Solder rings change color to indicate complete termination (optional)
- Sealing inserts at each end provides environmental protection
- Tough, fluoroplastic heat shrink insulation outer sleeve

<table>
<thead>
<tr>
<th>STS Part Number Family*</th>
<th>Industry Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-M Series (Immersion resistant w/o lead wire, 150° C)</td>
<td>AS83519/1 (QPL listed product)</td>
</tr>
<tr>
<td>H-ML Series (Immersion resistant w/lead wire, 150° C)</td>
<td>AS83519/2 (QPL listed product)</td>
</tr>
<tr>
<td>H-MB Series (w/braided lead, 150° C)</td>
<td>----</td>
</tr>
<tr>
<td>H-H Series (High Temperature, 175° C)</td>
<td>RoHS compliant, lead-free</td>
</tr>
<tr>
<td>H-C Series (High Temperature Convection Heated, 150° C)</td>
<td>NAS 1744, NAS 1745</td>
</tr>
<tr>
<td>L-C Series (Low Temperature Convection Heated, 105° C)</td>
<td>NAS 1745</td>
</tr>
<tr>
<td>H-I Series (High Temperature Infrared Heated, 150° C)</td>
<td>NAS 1746</td>
</tr>
<tr>
<td>E-C Series (Commercial Wire Termination, 125° C)</td>
<td>RoHS compliant, lead-free</td>
</tr>
</tbody>
</table>

*Temperatures listed are for wire rating

**STS Sealed Crimp Splice Kits**

*STS Sealed Crimp Splice Kits* are low profile, lightweight wire-to wire splicing products offering solutions for many *aerospace* and *defense* applications. These environmentally resistant splice kits provide excellent reliability, proven long term performance, *SAE AS81824/1 qualification* and a low total installed cost.

<table>
<thead>
<tr>
<th>STS Part Numbers</th>
<th>Industry Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-CR-436-36, -37 &amp; -38</td>
<td>AS81824/1 QPL Listed product</td>
</tr>
</tbody>
</table>

- Protection against low and high temperatures, mechanical abuse, vibration, moisture, salt spray, and a wide variety of fluids
- Color coded stripe, indicates specific wire size range
- Durable, tough outer jacket of semi-rigid fluoroplastic, with meltable sealing inserts at each end for environmental protection
**Military/Aerospace Solutions You Can Trust**

Field Performance Proven in:

- Military Ground Support Equipment & Electronic Systems
- Commercial Aircraft
- Space Satellite Vehicles
- Shipboard & Submarines
- Military Aircraft

- **SUMITUBE®** Heat Shrinkable Tubing
- **STS** Solder Termination Sleeves & Sealed Crimp Splice Kits
- **SumiMark®** & **Sumitag™** Thermal Transfer Marking Systems

**Critical Connection Performance**

- Hostile environment reliability
- Space savings & lightweight
- Extreme resistance to abrasion, high & low temperatures, mechanical stress, shock, vibration & exposure to oils, fuels, chemicals & solvents

---

**SUMITOMO ELECTRIC**
Field Performance Proven in:
Military/Aerospace Solutions You Can Trust

SumiMark®
&
Sumitag™ Thermal Transfer Marking Systems

- Sealed Crimp Splice Kits
- STS Solder Termination Sleeves
- SUMITUBE® Heat Shrinkable Tubing

- solvents & fuels, chemicals
- mechanical stress, shock, vibration
- low temperatures,
- • Extreme resistance to abrasion, high lightweight
- • Space savings

Electronic Systems Shipboard & Submarines

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**SUMITUBE® General Purpose Heat Shrinkable Tubing Products**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>A2</td>
<td>General Purpose Clear</td>
<td>RoHS /4 Class 2</td>
<td>2:1</td>
<td>110°C</td>
<td>-55°C to +135°C</td>
<td>Clear</td>
<td>3/64&quot; to 4&quot;</td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td>General Purpose Colors</td>
<td>UL/CSA/RoHS /5 Class 1 &amp; 3</td>
<td>2:1</td>
<td>90°C</td>
<td>-55°C to +135°C</td>
<td>Black, White, Red, Yellow, Blue, Green, Violet, Gray, Orange</td>
<td>3/64&quot; to 4&quot;</td>
<td></td>
</tr>
<tr>
<td>B2 (3X)</td>
<td>General Purpose High Shrink Ratio</td>
<td>UL/CSA/RoHS *</td>
<td>3:1</td>
<td>90°C</td>
<td>-55°C to +135°C</td>
<td>Black, White, Red Yellow, Blue</td>
<td>1.5/0.5 to 102/34 Metric</td>
<td></td>
</tr>
<tr>
<td>B2 (4XC)</td>
<td>General Purpose High Shrink Ratio</td>
<td>RoHS /5 Class 1, overexpanded</td>
<td>4:1</td>
<td>90°C</td>
<td>-55°C to +135°C</td>
<td>Black</td>
<td>3/4&quot; to 3&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Meets SAE-AMS-DTL-23053 /5 except for product dimensions and longitudinal change

---

**SUMITUBE® Dual Wall Adhesive Lined Heat Shrinkable Tubing Products**

**Superior Sealing Protection Solutions**

<table>
<thead>
<tr>
<th>SUMITUBE® Product</th>
<th>Product Description</th>
<th>Industry Certifications &amp; Approvals</th>
<th>SAE-AMS-DTL-23053 Slash Sheet</th>
<th>Shrink Ratio</th>
<th>Shrink Temp Minimum</th>
<th>Operating Temp Range</th>
<th>Colors</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>O2B2 4’ lengths</td>
<td>Dual Wall Adhesive Lined</td>
<td>UL/CSA/RoHS /4 Class 2</td>
<td>2:1</td>
<td>110°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>1/8” to 2”</td>
<td></td>
</tr>
<tr>
<td>O2B2S Spooled</td>
<td>Dual Wall Adhesive Lined</td>
<td>UL/CSA/RoHS /4 Class 2</td>
<td>2:1</td>
<td>110°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>1/8” to 2”</td>
<td></td>
</tr>
<tr>
<td>W3B2 4’ lengths</td>
<td>Dual Wall Thick Adhesive Lined</td>
<td>UL/CSA/RoHS /4 Class 3</td>
<td>3:1</td>
<td>110°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>3/1 to 40/13 Metric</td>
<td></td>
</tr>
<tr>
<td>W3B2S Spooled</td>
<td>Dual Wall Thick Adhesive Lined</td>
<td>UL/CSA/RoHS /4 Class 3</td>
<td>3:1</td>
<td>110°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>1/8” to 3/4” 24/18 to 40/13 Metric</td>
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</tr>
<tr>
<td>W3B2 (4X) 4’ lengths</td>
<td>Dual Wall Thick Adhesive Lined</td>
<td>UL/RoHS</td>
<td>4:1</td>
<td>110°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>4/1 to 52/13 Metric</td>
<td></td>
</tr>
<tr>
<td>W5DL 4’ lengths</td>
<td>Dual Wall Encapsulant Meltable Inner Wall</td>
<td>UL/RoHS /4 Class 1</td>
<td>Up to 4:1</td>
<td>140°C</td>
<td>-55°C to +110°C</td>
<td>Black</td>
<td>1/8” to 1”</td>
<td></td>
</tr>
</tbody>
</table>

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**SUMITUBE® High Performance Heat Shrinkable Tubing Products**

<table>
<thead>
<tr>
<th>SUMITUBE® Product</th>
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<th>Industry Certifications &amp; Approvals</th>
<th>SAE-AMS-DTL-23053 Slash Sheet</th>
<th>Shrink Ratio</th>
<th>Shrink Temp Minimum</th>
<th>Operating Temp Range</th>
<th>Colors</th>
<th>Size Range</th>
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<tbody>
<tr>
<td>M23053/UL/CSA/RoHS</td>
<td></td>
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The High Performance Solution in Critical Environments

Thin Wall Tubing Products

<table>
<thead>
<tr>
<th>SUMITUBE® Product</th>
<th>Product Description</th>
<th>Industry Certifications &amp; Approvals</th>
<th>SAE-AMS-DTL-23053 Slash Sheet</th>
<th>Shrink Ratio</th>
<th>Shrink Temp Minimum</th>
<th>Operating Temp Range</th>
<th>Colors</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>Rigid High Temperature Translucent PVDF</td>
<td>UL/CSA/RoHS/ Low Outgassing</td>
<td>/8</td>
<td>2:1</td>
<td>170°C</td>
<td>-55°C to +175°C</td>
<td>Translucent</td>
<td>3/64” to 2”</td>
</tr>
<tr>
<td>K2</td>
<td>Flexible High Temperature Clear PVDF</td>
<td>UL/RoHS/ Low Outgassing</td>
<td>/18 Class 1</td>
<td>2:1</td>
<td>150°C</td>
<td>-55°C to +175°C</td>
<td>Clear</td>
<td>3/64” to 2”</td>
</tr>
<tr>
<td>K3</td>
<td>Very Flexible High Temperature Clear Modified Fluoropolymer</td>
<td>UL/RoHS/ Low Outgassing</td>
<td>/18 Class 3</td>
<td>2:1</td>
<td>130°C</td>
<td>-55°C to +150°C</td>
<td>Clear</td>
<td>1/8” to 1”</td>
</tr>
<tr>
<td>KH200</td>
<td>Very Flexible High Temp Fluoropolymer</td>
<td>UL/ RoHS/ Low Outgassing</td>
<td>/13</td>
<td>2:1</td>
<td>130°C</td>
<td>-70°C to +200°C</td>
<td>Clear</td>
<td>1/8” to 1”</td>
</tr>
<tr>
<td>KH200 (TW)</td>
<td>Very Flexible High Temp Fluoropolymer Thin Wall</td>
<td>UL/RoHS/ Low Outgassing</td>
<td>/18 Class 3</td>
<td>2:1</td>
<td>130°C</td>
<td>-70°C to +200°C</td>
<td>Clear</td>
<td>1/8” to 1”</td>
</tr>
<tr>
<td>KH230</td>
<td>Very Flexible High Temp Fluoropolymer Standard Wall</td>
<td>RoHS/ Low Outgassing</td>
<td>/13</td>
<td>2:1</td>
<td>130°C</td>
<td>-70°C to +230°C</td>
<td>Black</td>
<td>1/8” to 1”</td>
</tr>
<tr>
<td>KH230 (TW)</td>
<td>Very Flexible High Temp Fluoropolymer Thin Wall</td>
<td>RoHS/ Low Outgassing</td>
<td>/18 Class 3</td>
<td>2:1</td>
<td>130°C</td>
<td>-70°C to +230°C</td>
<td>Black</td>
<td>1/8” to 1”</td>
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Elastomer Products

<table>
<thead>
<tr>
<th>SUMITUBE® Product</th>
<th>Product Description</th>
<th>Industry Certifications &amp; Approvals</th>
<th>SAE-AMS-DTL-23053 Slash Sheet</th>
<th>Shrink Ratio</th>
<th>Shrink Temp Minimum</th>
<th>Operating Temp Range</th>
<th>Colors</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>R10</td>
<td>Rugged Chlorinated Polyolefin UL</td>
<td>UL/RoHS</td>
<td>/1 Class 1 &amp; 2</td>
<td>2:1</td>
<td>150°C</td>
<td>-70°C to +121°C</td>
<td>Black</td>
<td>1/8” to 2”</td>
</tr>
<tr>
<td>R120</td>
<td>Rugged Elastomeric Polyolefin</td>
<td>RoHS</td>
<td>/16</td>
<td>2:1</td>
<td>150°C</td>
<td>-75°C to +120°C</td>
<td>Black</td>
<td>1/8” to 2”</td>
</tr>
<tr>
<td>FE3</td>
<td>High Temperature Flexible Fluoroelastomer</td>
<td>RoHS/ Low Outgassing</td>
<td>/13</td>
<td>2:1</td>
<td>120°C</td>
<td>-40°C to +200°C</td>
<td>Black</td>
<td>1/8” to 3”</td>
</tr>
</tbody>
</table>
Sumitag™ STP-300 DS Double Sided Printer

Dual Head Thermal Transfer Marking System

- Superior 300 DPI print quality
- Meets SAE-AS5942 for print adherence
- Software compatible with Windows Vista/XP/7/8
- Double sided printing in one pass
- Prints Text /Graphics/Barcodes/Logos
- Prints on SumiMark® continuous spools and Sumitag™ formatted products & labels

SumiMark® IV

Thermal Transfer Marking System

- Superior 300 DPI print quality
- Meets SAE-AS5942 for print adherence
- Software compatible with Windows Vista/XP/7/8
- Prints Text /Graphics/Barcodes/Logos
- Prints on diameters of 1/16” to 2”
- Cuts lengths of .25” to 4”
- Prints on SumiMark® continuous spools and Sumitag™ formatted products
Pre-fluxed solder preform insures repeatability upon installation
Sealing inserts at each end
Protection against low and high temperatures, mechanical abuse,
Durable, tough outer jacket of semi-rigid fluoroplastic, with
Solder rings change color to indicate complete termination (optional)
Color coded stripe, indicates specific wire size range
AS81824/1 QPL Listed product
Industry Specification
RoHS compliant, lead-free

STS Sealed Crimp Splice Kits
STS Solder Termination Sleeves
• and a low total installed cost.
• These environmentally resistant splice kits provide excellent
• applications. These environmentally resistant splice kits provide excellent
• compact
• & lightweight wire-to wire
• Lightweight
• Environmental Sealing
• Reliable
• Repeatable
• Inspectable
• Versatile
• They conform to
• Temperatures listed are for wire rating
• SAE AS81824/1 qualification
• •
• •
• •
• •
• •
• They
• solder, seal, insulate

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or damage directly, indirectly or as a consequence arising from the
use or misuse of its products mentioned in this catalog, other than
the replacement of materials considered defective.

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are subject to change without notice.

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