



HS

HEAT SHRINK

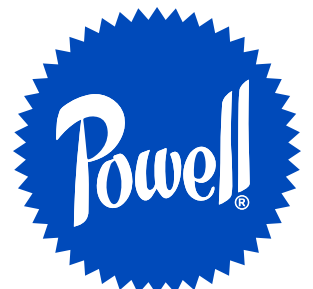
SLEEVES, TUBING, AND LABELS



INDUSTRIAL • AUTOMOTIVE • AEROSPACE • APPLIANCES • COMMUNICATIONS • ELECTRONICS • MEDICAL • TRANSIT



**SUMITOMO ELECTRIC
INTERCONNECT PRODUCTS**



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*Sumitomo Electric Interconnect Products
are known for their broad range of
high quality heat-shrinkable products.*

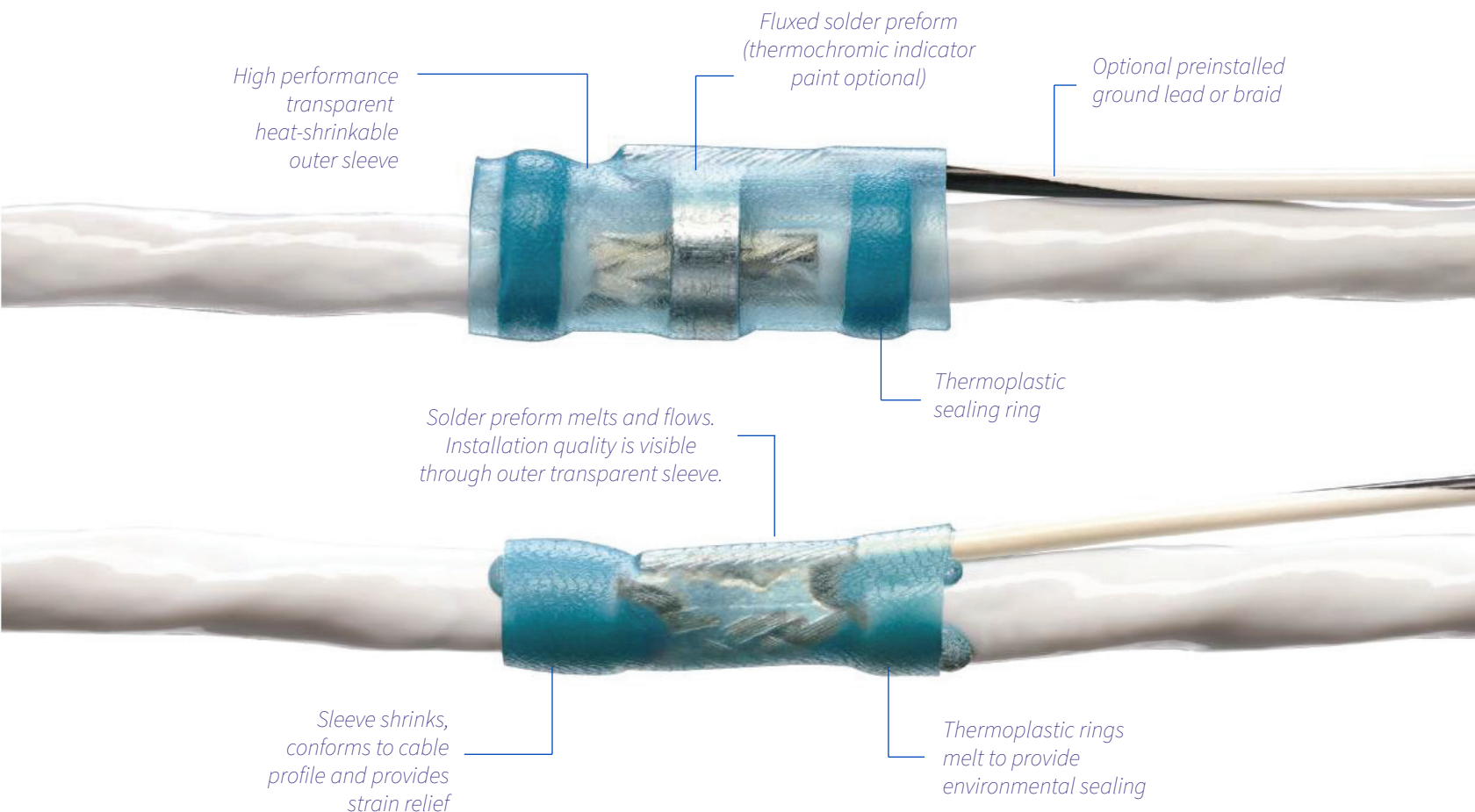
SUMITUBE™ STS *Solder Termination Sleeves*



Sumitube™ STS Solder Termination Sleeves provide the most reliable means of terminating a variety of coaxial cable types. In addition, they can be used for wire-to-wire or wire-to-pin style connections, and even on triaxial cable assemblies. They solder, seal, insulate, and strain relieve 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.

STS products have a long history of use in a variety of areas, ranging from commercial aircraft and military aerospace and defense, to high volume commercial applications.



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SHRINK TUBING

General, Dual Wall, and High Performance

Sumitomo's irradiated heat shrink products are widely used in a variety of applications which require general insulation, mechanical protection, environmental sealing, chemical and fluid resistance, corrosion protection, maintenance and repair, and the identification of wires.

General Purpose Heat Shrink Products

UL/CSA/SAE/RoHS

- Insulate
- Harness
- Route
- Strain Relief
- Bundle
- Identify
- Protect

High Performance Products

Military/Aerospace/High Technology/OEM/Industrial

- Abrasion
- Chemicals
- Petrochemicals
- Electrical Insulation
- Mechanical
- Solvents
- High Temperature

Dual Wall Adhesive Lined Products

The Ultimate in Liquid Sealing Protection

- Water/Moisture
- Petrochemicals
- Harsh Chemicals
- Solvents
- Acids



LABELS & IDENTIFICATION

Sumimark® and Sumitag®

Our Sumimark® and Sumitag® portfolios offer a wide range of high performance cable identification products developed specifically for the cable assembly identification industry. From our legendary Sumimark® marking system to high performance shrink sleeves and non-shrink products (panel and cable labels), we excel at offering maximum flexibility for your cable identification requirements.

PRODUCT INFORMATION

General Purpose, Single Wall Sumitube®

Sumitube® Product Series	Product Description	Industry Certification & Approvals	AS23053 Slash Sheet	Shrink Ratio	Shrink Temp Minimum	Operating Temp Range	Colors	Size Range
A2	General Purpose Clear	RoHS	/5 Class 2	2:1	110°C	-55°C to +135°C	Clear	3/64" to 4"
A2(3X)	Thin Wall Clear	RoHS		3:1	110°C	-55°C to +135°C	Clear	1.5 to 75/25 Metric
A4	General Purpose Commercial Grade	RoHS		2:1	110°C	-55°C to +105°C	Black, White, Red, Yellow, Blue, Green, Clear	3/64" to 2"
B2	General Purpose Colors	UL/CSA/RoHS	/5 Class 1 & 3	2:1	90°C	-55°C to +135°C	Black, White, Red, Yellow, Blue, Green, Violet, Gray, Orange	3/64" to 4"
B2 (Y/G) 3:1	General Purpose Colors	UL/CSA/RoHS		3:1	90°C	-55°C to +135°C	Yellow/Green striped	187/62 to 500/185 Metric
B2 (3X)	General Purpose High Shrink Ratio	UL/CSA/RoHS		3:1	90°C	-55°C to +135°C	Black, White, Red, Yellow, Blue	1.5/0.5 to 102/34 Metric
B2 (4X)	General Purpose High Shrink Ratio	UL/RoHS		4:1	90°C	-55°C to +135°C	Black	1" to 4"
B2 (4XC)	General Purpose High Shrink Ratio	UL/RoHS	/5 Class 1, overexpanded	4:1	90°C	-55°C to +135°C	Black	3/4" to 2"
B6	Semi-Rigid	RoHS		2:1	135°C	-55°C to +135°C	Black, White	3/64" to 1"
F2(Z)	Thin Wall UL/CSA Surface Printed	UL/CSA/RoHS		2:1	90°C	-55°C to +125°C	Black, White, Red, Yellow, Blue	3/64" to 4"
F4(Z)	Very Thin Wall UL/CSA Surface Printed	UL/CSA/RoHS		2:1	90°C	-55°C to +125°C	Black, White, Red, Yellow	3/64" to 1"
NH	Low Smoke Low Acid Gas Halogen-Free	RoHS		2:1	115°C	-55°C to +105°C	Black, White, Red, Yellow, Blue	1/8" to 2"
NH(TW)	Low Smoke Low Acid Gas Thin Wall Halogen-Free	RoHS		2:1	115°C	-55°C to +105°C	Black, White, Red, Yellow, Blue	1/8" to 2"

PRODUCT INFORMATION

Dual Wall Adhesive Lined Sumitube®

SUMITUBE® Product Series	Product Description	Industry Certifications & Approvals	AS23053 Slash Sheet	Shrink Ratio	Shrink Temp Minimum	Operating Temp Range	Colors	Size Range
O2B2	Dual Wall Adhesive Lined	UL/CSA/RoHS	/4 Class 2	2:1	110°C	-55°C to +125°C	Black	1/8" to 2"
O2B2S	Dual Wall Adhesive Lined, Spooled	UL/CSA/RoHS	/4 Class 2	2:1	110°C	-55°C to +125°C	Black	1/8" to 2"
O2C	Dual Wall Adhesive Lined Clear	RoHS		2:1	115°C	-55°C to +105°C	Clear	1/8" to 1"
SA3	Dual Wall Thick Adhesive Lined	Ford - ESB-M99D56-A2 FCA/Chrysler-MS.50107 (MS-DB-56) CPN#5032 GM - GMW17136		4:1	135C	-40°C to +130°C	Black	1,2,3,4
SA5	Dual Wall Thick Adhesive Lined			4:1	140C	-40°C to +150°C	Black	1,2,3,4,5
SA3F	Dual Wall Thick Adhesive Lined	GM - GMW17136		4:1	135C	-40°C to +135°C	Black	0,1,2,3,4
W3B2	Dual Wall Thick Adhesive Lined	UL/CSA/RoHS	/4 Class 3	3:1	110°C	-55°C to +125°C	Black	3/1 to 40/13 Metric
W3B2S	Dual Wall Thick Adhesive Lined, Spooled	UL (Sun-Res) CSA/RoHS	/4 Class 3	3:1	110°C	-55°C to +125°C	Black	1/8" to 3/4" 24/8 to 40/13 Metric
W3B2 (4X)	Dual Wall Thick Adhesive Lined	UL/RoHS		4:1	110°C	-55°C to +125°C	Black	4/1 to 52/13 Metric
W3C	Dual Wall Thick Adhesive Lined	RoHS		3:1	115°C	-55°C to +105°C	Clear	1/8" to 1"
W5DL	Dual Wall Encapsulant Meltable Inner Wall	UL/RoHS	/4 Class 1	4:1	140°C	-55°C to +110°C	Black	1/8" to 1"

Medium Wall Adhesive Lined Products

Product Series	Product Description	Industry Certifications & Approvals	AS23053 Slash Sheet	Shrink Ratio	Shrink Temp Minimum	Operating Temp Range	Colors	Size Range
SCH (6X)	Dual Wall Adhesive Lined 6:1 Shrink Ratio	RoHS		6:1	121°C	-55°C to +90°C	Black	5/8" to 4"
SCM2	Dual Wall Adhesive Lined	RoHS		3:1	115°C	-40°C to +120°C	Black, Red	10-125mm (approx.) (size codes 04-50)

PRODUCT INFORMATION

Special Project / Extreme Environments Sumitube®

SUMITUBE® Product Series	Product Description	Industry Certifications & Approvals	AS23053 Slash Sheet	Shrink Ratio	Shrink Temp Minimum	Operating Temp Range	Colors	Size Range
DPX-1 Tape	Thermoplastic Adhesive Tape (Hot Melt)	RoHS		N/A	N/A	-55°C to +110°C	Translucent Amber	50mm 1.97" Width
FE3	High Temperature Flexible Fluoroelastomer	RoHS	/13	2:1	120°C	-40°C to +200°C	Black, Red, Blue, Yellow, White	1/8" to 2"
K	Semi-Rigid High Temperature Translucent PVDF	UL/CSA/RoHS	/8	2:1	170°C	-55°C to +175°C	Translucent	3/64" to 2"
K2	Flexible High Temperature Clear PVDF	UL/RoHS	/18 Class 1	2:1	150°C	-55°C to +175°C	Clear	3/64" to 2"
K3	Very Flexible High Temperature Clear Modified Fluoropolymer	UL/RoHS	/18 Class 3	2:1	130°C	-55°C to +150°C	Clear	1/8" to 1"
KH200	Very Flexible High Temp Fluoropolymer	UL/RoHS	/13	2:1	130°C	-70°C to +200°C	Clear	1/8" to 1"
KH200 (TW)	Very Flexible High Temp Fluoropolymer Thin Wall	UL/RoHS	/18 Class 3	2:1	130°C	-70°C to +200°C	Clear	1/8" to 1"
KH230	Very Flexible High Temp Fluoropolymer Thin Wall	RoHS	/13	2:1	130°C	-70°C to +230°C	Black	1/8" to 1"
KH230 (TW)	Very Flexible High Temp Fluoropolymer Thin Wall	RoHS	/18 Class 3	2:1	130°C	-70°C to +230°C	Black	1/8" to 1"
R10	Fluid Resistant Elastomer	UL/RoHS	/1 Class 1 & 2	2:1	150°C	-70°C to +121°C	Black	1/8" to 2"
R120	Enhanced Fluid Resistant Elastomer	RoHS	/16	2:1	150°C	-75°C to +120°C	Black	1/8" to 2"

PRODUCT INFORMATION

Sumitube® STS Solder Termination Sleeves

SUMITUBE® Product Series	Features	Industry Specification	Continuous Operating Temperature	Cable OD Range (inches)	Solder Alloy	Insulation Material
H-M Series	Immersion Resistant W/O Lead Wire	AS83519/1 QPL Listed Product	150 °C	.020-.300	Sn63	Modified Polyvinylidene Fluoride
H-ML Series	Immersion Resistant With Lead Wire	AS83519/2 QPL Listed Product	150 °C	.020-.300	Sn63	Modified Polyvinylidene Fluoride
H-MB Series	Immersion Resistant With Braid Lead	AS83519/3 QPL Listed Product	150 °C	.020-.300	Sn63	Modified Polyvinylidene Fluoride
H-HMB Series	Immersion Resistant With Braid Lead	AS83519/5 QPL Listed Product	175 °C	.020-.300	Sn96	Modified Polyvinylidene Fluoride
H-HML Series	Immersion Resistant With Pre-Installed Wire Lead	Meets Performance Requirements of SAE-AS83519	175 °C	.020-.300	Sn96	Modified Polyvinylidene Fluoride
H-HC Series	High Temperature	RoHS Compliant	175 °C	.020-.300	Sn96	Modified Polyvinylidene Fluoride
H-C Series	High Temperature Convection Heated, 150 °C	NAS 1744, NAS 1745	150 °C	.020-.545	Sn63	Modified Polyvinylidene Fluoride
L-C Series	Low Temperature Convection	NAS 1745	125 °C	.020-.545	Cd18	Modified Polyvinylidene Fluoride
H-I Series	H-I Series (High Temperature Infrared Heat)	NAS 1746	150 °C	.020-.300	Sn63	Modified Polyvinylidene Fluoride
E-C Series	Commercial Wire Termination	RoHS Compliant	125 °C	.020-.300	Bi58/Sn42	High-Density Modified Polyolefin
H-CR-436 Series	Crimp Kit Color Code Moisture Resistant	AS81824/1 QPL Listed Product	150 °C	AWG 26-12		Modified Polyvinylidene Fluoride

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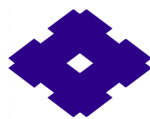
MANUFACTURER SOLUTIONS



Powell Electronics, Inc. is a specialist at high reliability, harsh environment connector design, manufacturing and supply chain. Powell has 70,000 square feet of connector manufacturing capabilities in our Swedesboro, NJ facility, which is certified to ISO9001:2015 and AS9100D.

In support of manufacturing we offer automated engineering solutions and connector ODM services. Powell is an authorized QPL'ed distributor for over 50 military specifications and AS9120B certified to support your customized packaging and supply chain needs.

For more information on Sumitomo products or other Manufacturer Solutions, contact us:
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