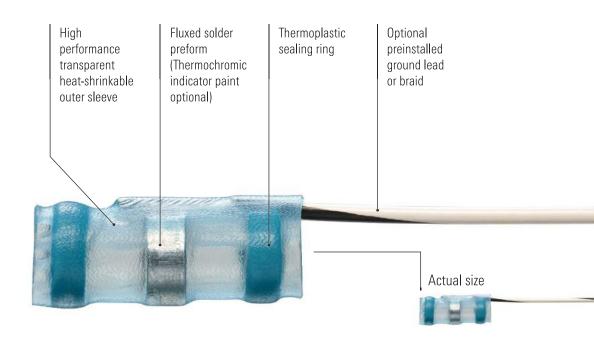




SUMITUBE® SIMPLY SUPERIOR.

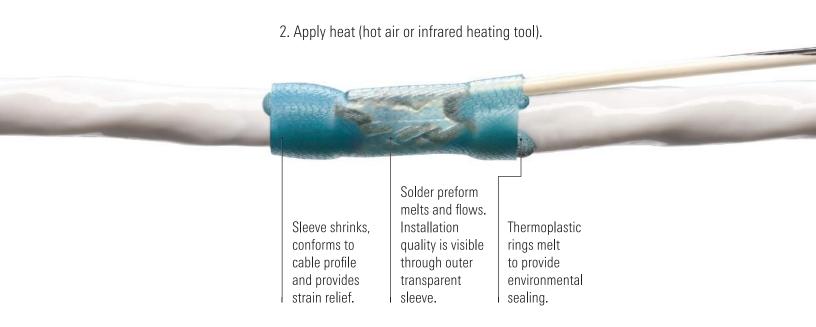




Installation Instructions

1. Insert prepared cable.





RELIABLE • REPEATABLE • INSPECTABLE

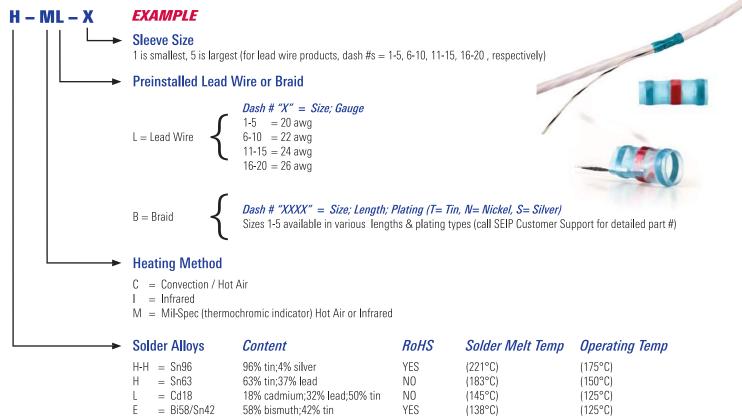
STS Solder Termination Sleeves provide the most reliable means of terminating a wide variety of coaxial cables types. In addition, they can be used for wire-to-wire or wire-to-pin style connections, and even on triaxial cable assemblies. They solder, seal, insulate, and strain relieve critical connections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

Built to stringent standards, including SAE-AS83519 and NAS 1744, 1745 & 1746, each STS device has an internal precision engineered pre-fluxed solder preform, meaning that every connection receives identical amounts of solder and flux resulting in highly repeatable processes. STS products have a long history of use in a variety of areas ranging from commercial aircraft and military aerospace & defense to high volume commercial applications.

Certain STS parts also have a temperature indicating (TI) paint on the solder rings that changes color when sufficient heat has been applied as visual evidence that the termination has been properly completed. High performance sealing inserts at each end ensure that connections are environmentally resistant. A transparent tough outer shrinkable sleeve made from semi-rigid crosslinked fluoroplastic provides strain relief, insulation and mechanical protection of the finished solder joint and allows for convenient visual inspection.

STS Part Number Family	Industry Specification
H-M Series (Immersion resistant w/o lead wire, 150°C)	AS83519/1 (QPL listed product)
H-ML Series (Immersion resistant with lead wire 150° C)	AS83519/2 (QPL listed product)
H-MB Series (w/braided lead, 150°C)	
H-H Series (High Temperature, 175°C)	RoHS
H-C Series (High Temperature Convection Heated, 150°C)	NAS 1744, NAS 1745
L-C Series (Low Temperature Convection Heated, 125° C)	NAS 1745
H-I Series (High Temperature Infrared Heated, 150°C)	NAS 1746
E-C Series (Commercial Wire Termination, 125°C)	RoHS

STS Part Numbering Identification





150°C Operating Temperature STS

Conv	AS83519/1 & 2 (150°C) Convection or Infrared Applications Sn63 (RMA flux)										
Size	SIZO NII) PREINSTALLED WIRE		LED 20 AWG WIRE 759/32-20-90) PREINSTALLED 22 AWG WIRE (M22759/32-22-90)		PREINSTALLED 24 AWG WIRE (M22759/32-24-90)		PREINSTALLED 26 AWG WIRE (M22759/32-26-90)				
	INCHES	SEIP	AS (MIL)	SEIP	AS (MIL)	SEIP	AS (MIL)	SEIP	AS (MIL)	SEIP	AS (MIL)
1	.020105	H-M-1	M83519/1-1	H-ML-1	M83519/2-1	H-ML-6	M83519/2-6	H-ML-11	M83519/2-11	H-ML-16	M83519/2-16
2	.030145	H-M-2	M83519/1-2	H-ML-2	M83519/2-2	H-ML-7	M83519/2-7	H-ML-12	M83519/2-12	H-ML-17	M83519/2-17
3	.050200	H-M-3	M83519/1-3	H-ML-3	M83519/2-3	H-ML-8	M83519/2-8	H-ML-13	M83519/2-13	H-ML-18	M83519/2-18
4	.070255	H-M-4	M83519/1-4	H-ML-4	M83519/2-4	H-ML-9	M83519/2-9	H-ML-14	M83519/2-14	H-ML-19	M83519/2-19
5	.100300	H-M-5	M83519/1-5	H-ML-5	M83519/2-5	H-ML-10	M83519/2-10	H-ML-15	M83519/2-15	H-ML-20	M83519/2-20

Convect	NAS 1744 (150°C) Convection or Infrared Applications Sn63 (RMA flux)					
Size	CABLE OD RANGE NO PREINSTALLED WIRE					
	INCHES	SEIP	NAS			
1	.020095	H-C4-1	1744-1			
2	.030125	H-C4-2	1744-2			
3 or 4	.050200	H-C4-3	1744-3			
4 or 5	.100300	H-C4-4	1744-4			

Convect	NAS 1744 (150°C) Convection or Infrared Applications Sn63 (RA flux)					
Size	CABLE OD RANGE NO PREINSTALLED WIRE					
	INCHES SEIP NAS					
1	.020095	H-C4-5	1744-5			
2	.030125 H-C4-6 1744-6					
3 or 4	.050200	H-C4-7	1744-7			
4 or 5	.100300	H-C4-8	1744-8			

Conve	*NAS 1745 (125°C) Convection Applications Cd18 (RMA flux)				
Size	CABLE OD RANGE NO PREINSTALLED WIRE				
	INCHES	SEIP	NAS		
1	.020095	L-C-1	1745-13		
2	.030125	L-C-2	1745-14		
3	.050200	L-C-3	1745-15		
4	.070255	L-C-4	1745-23		
5	.100300	L-C-5	1745-16		
6	.220460	L-C-6	1745-24		
7	.260545	L-C-7	1745-25		

Conve	NAS 1745 (150°C) Convection Applications Sn63 (RMA flux)				
Size	e CABLE OD RANGE NO PREINSTALLED WIRE				
	INCHES	SEIP	NAS		
1	.020095	H-C-1	1745-1		
2	.030125	H-C-2	1745-2		
3	.050200	H-C-3	1745-3		
4	.070255	H-C-4	1745-17		
5	.100300	H-C-5	1745-4		
6	.220460	H-C-6	1745-18		
7	.260545	H-C-7	1745-19		

Conve	NAS 1745 (150°C) Convection Applications Sn63 (RA flux)					
Size	CABLE OD RANGE	NO PREINSTA	LLED WIRE			
	INCHES	SEIP	NAS			
1	.020095	H-C5-5	1745-5			
2	.030125	H-C5-6	1745-6			
3	.050200	H-C5-7	1745-7			
4	.070255	H-C5-20	1745-20			
5	.100300	H-C5-8	1745-8			
6	.220460	H-C5-21	1745-21			
7	.260545	H-C5-22	1745-22			

Infrar	NAS 1746 (150°C) Infrared Applications Sn63 (RMA flux)				
Size	Size CABLE OD RANGE NO PREINSTALLED WIRE				
	INCHES	SEIP	NAS		
1	.020095	H-I-1	1746-1		
2	.030125	H- I -2	1746-2		
3	.050200	H-I-3	1746-3		
4	.070250	H-I-4	1746-9		
5	.100300	H-I-5	1746-4		

NAS 1746 (150°C) Infrared Applications Sn63 (RA flux)				
Size	CABLE OD RANGE	GE NO PREINSTALLED WIRE		
	INCHES	SEIP	NAS	
1	.020095	H-I-1-3	1746-5	
2	.030125	H-I-2-3	1746-6	
3	.050200	H-I-3-3	1746-7	
4	.070250	H-I-4-3	1746-10	
5	.100300	H-I-5-3	1746-8	

^{*}Low temperature @125°C - See STS part number identification for operating temperature detail

175°C High Operating Temperature STS – RoHS

Conve	HIGH TEMP STS (175°C) Convection Applications Sn96 (RA flux)				
Size	CABLE OD RANGE	NO PREINSTALLED WIRE			
	INCHES	SEIP			
1	.020105	H-HC-1			
2	.030125	H-HC-2			
3	.050200	H-HC-3			
4	.070280	H-HC-4			
5	.100300	H-HC-5			

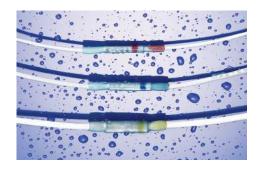
	HIGH TEMP STS with leads(175°C) Convection Applications Sn96 (RA flux)						
Size	CABLE OD RANGE	PREINSTALLED 20 AWG WIRE (M22759/41-20-90)	PREINSTALLED 22 AWG WIRE (M22759/41-22-YY)				
	INCHES	SEIP	SEIP				
1	.020105	H-HML-1	H-HML-6-YY				
2	.030145	H-HML-2	H-HML-7-YY				
3	.050200	H-HML-3	H-HML-8-YY				
4	.070255	H-HML-4	H-HML-9-YY				
5	.100300	H-HML-5	H-HML-10-YY				

125°C Low Operating Temperature STS – RoHS

Conve	LOW TEMP STS (125°C) Convection Applications Bi58 (RMA flux)					
Size	CABLE OD RANGE	NO PREINSTALLED WIRE				
	INCHES	SEIP				
1	.020095	E-C4-1				
2	.030125	E-C4-2				
3	.050200	E-C4-3				
4	.070235	E-C4-4				
5	.100300	E-C4-5				



150°C Operating Temperature Crimp STS — RoHS



STS sealed crimp kits provide reliable, stable, environmentally sealed crimp splices in the most extreme operating environments.

_					
С	0	٠.		ro	0
		11	u	re	Э.

Temperature range: -55°C to +150°C
Moisture resistant

Moisture resistant RoHS compliant

Crimp Kit Color Code Selection									
Product name	SAE Spec Equivalent	1 to 1 Splice Wire Range (AWG)	Crimp Barrel Size Range CMA - (mm²)	Shrink Sleeve Sealing Inserts - Inside Diameter Inches (mm)	Color Code				
H-CR-436-36	AS81824/1-1	26 - 20	304 - 1510 (0.15 - 0.75)	.085 (2.16)	RED				
H-CR-436-37	AS81824/1-2	20 - 16	779 - 2680 (0.39 - 1.34)	.110 (2.79)	BLUE				
H-CR-436-38	AS81824/1-3	16 - 12	1900 - 6755 (0.95 - 3.37)	.170 (4.32)	YELLOW				

Required Crimping Tool: Per SAE-AS22520



SUMITOMO ELECTRIC INTERCONNECT PRODUCTS, INC.

www.seipusa.com www.sumitube.com

The information contained in this brochure is believed to be correct and in accordance with accepted engineering practices. Because of the varied nature of the uses for these products, each user should make their own evaluation regarding the suitability of these products for their specific application.

Sumitomo Electric Fine Polymer, Inc. and/or Sumitomo Electric Interconnect Products, Inc. make no warranties expressed or implied regarding the accuracy and completeness of the information and data contained herein, and disclaims any liability from the use or misuse of its products.

Sumitomo Electric Fine Polymer, Inc. and/or Sumitomo Electric Interconnect Products, Inc. shall not be liable for any injury, loss 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.







QPL-AS83519 QPL-AS81824 NAS-1744 NAS-1745 NAS-1746

ISO 9001:2008 ISO 14001:2004

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

Customer Service
1-800-758-3515 (USA & Canada)
1-760-761-0600 (Outside USA & Canada)
customerservice@seipusa.com
Fax: 1-800-758-3517 (USA & Canada)
or 1-760-761-0620 (Outside USA & Canada)
www.seipusa.com

©2014 Sumitomo Electric Interconnect Products, Inc. All rights reserved. The Sumitomo Electric logo is a registered trademark of Sumitomo Electric Industries. Other products and brand names may be trademarks of their respective owners. The information on this datasheet is believed to be correct a the time of publication. Specifications given in this publication are subject to change without notice.