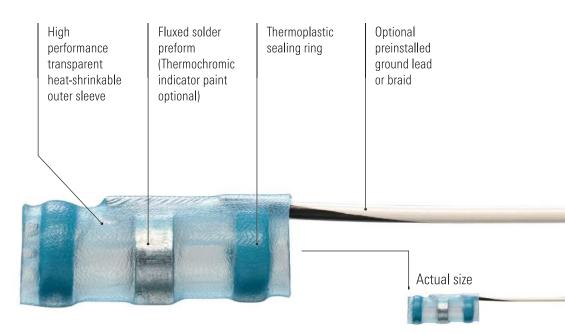


SUMITUBE® SIMPLY SUPERIOR.

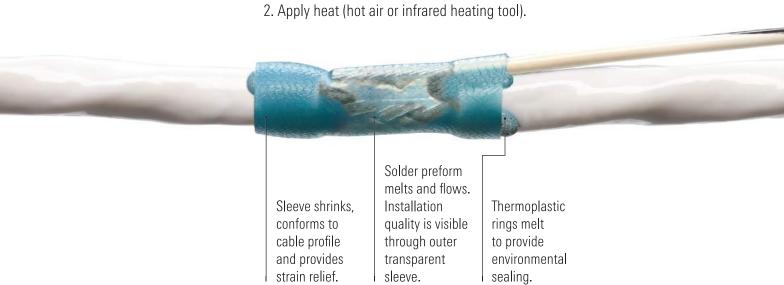




Installation Instructions

1. Insert prepared cable.









RELIABLE • REPEATABLE • INSPECTABLE

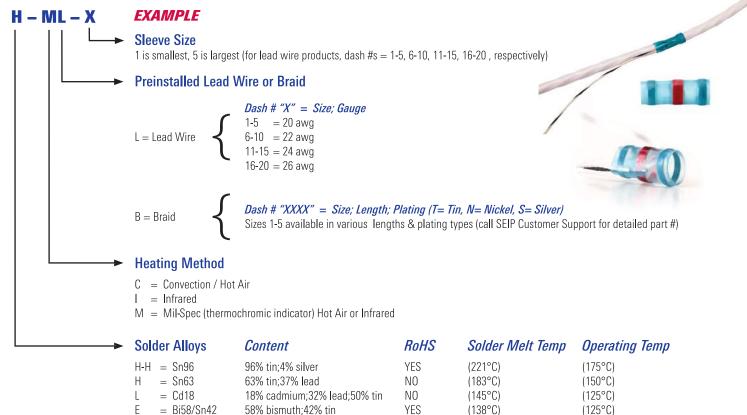
STS Solder Termination Sleeves provide the most reliable means of terminating a wide variety of coaxial cables types. In addition, they can be used for wire-to-wire or wire-to-pin style connections, and even on triaxial cable assemblies. They solder, seal, insulate, and strain relieve critical connections 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	Size CABLE OD RANGE NO PREINSTALLED WIRE PREINSTALLED 20 AWG WII (M22759/32-20-90)			E PREINSTALLED 22 AWG WIRE PI (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	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 PREINSTA	ALLED 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	CABLE OD RANGE	NO PREINSTA	ALLED 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		
	1220 1100				

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	E 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			

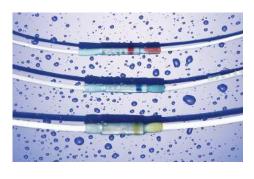
	HIGH TEMP STS with leads(175°C) Convection Applications Sn96 (RA flux)						
Size	CABLE OD RANGE	PREINSTALLED 20 AWG WIRE (M22759/41-20-90)	PREINSTALLED 22 AWG WIRE (M22759/41-22-YY)				
	INCHES	SEIP	SEIP				
1	.020105	H-HML-1	H-HML-6-YY				
2	.030145	H-HML-2	H-HML-7-YY				
3	.050200	H-HML-3	H-HML-8-YY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

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

Features:

Temperature range: -55°C to +150°C

Moisture resistant **RoHS** compliant

Required Crimping Tool: Per SAE-AS22520





SUMITOMO ELECTRIC INTERCONNECT PRODUCTS, INC.

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

ISO 9001:2008 ISO 14001:2004

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