




Glenair®



**Series 77 “Full Nelson”
Environmental Shrink Boots**
*For Tough, Dependable Sealing of
Interconnect Cable Assemblies*

United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain ■ Japan

***Think he'll ever break that hold?
Nope. He's got him in a Full Nelson.***



Nothing conjures up the image of an unbreakable hold like a Standing Full Nelson. Properly applied, this classic Greco-Roman wrestling move is simply unbeatable. We'd like to think the same holds true for our Series 77 *Full Nelson* Environmental Shrink Boots. Properly applied, these adhesive-lined shrink boots provide a dependable, leak-proof seal for interconnect

cable assemblies. So if you're worried about sealing effectiveness, if you want long-lasting environmental protection, if you want an ingress prevention solution that won't lose its grip after years and years of service, get a Series 77 *Full Nelson*—the environmental shrink boot with the iron grip of a championship wrestler.



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Outstanding Environmental and Mechanical Protection

Introduction

Shrink boots provide mechanical and environmental protection to connector-to-cable transitions. Specially formulated polymers are injection-molded, then heated and expanded. The shape-memory property of the material allows it to return to its original shape when heated with a hot air gun. Optional adhesive coatings on the inside of the boot provide a watertight, high-strength bond to the cable jacket and the connector or adapter.



RoHS Compliant

Shrink boots are fully RoHS compliant, including adhesive-lined versions.

Expanded Boots

Shrink boots are supplied in expanded form. The boot is heated, stretched on a mandrel, then cooled. The boot retains its expanded form until heat is applied.



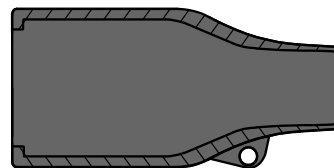
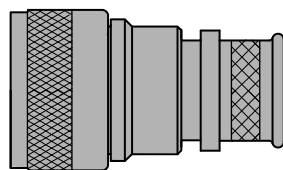
Expanded Right Angle Boot

Recovered Boots

Application of heat restores the boot to its original dimensions.

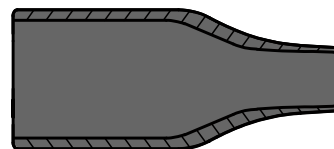
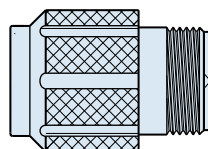


Recovered Right Angle Boot



Adapter Boots with Lip

Adapter boots are designed for use with connector adapters which attach to mil spec circular connectors. Adapters have a boot groove to accept an interlocking lip on the boot for improved strength. These adapters accept both shielded and unshielded cable. Adapters can be unthreaded from the connector for repair of damaged connector pins.



Lipless Boots

Lipless boots are designed for direct attachment to connector threads. The adapter is eliminated, saving weight and space. Adhesive lining provides sealing and improved mechanical strength.

Boot Materials

Shrink boots are available in three materials: Type 1 high performance elastomer provides improved resistance to heat, oils and fuels. Type 2 zero halogen material is intended for applications where low toxicity is a must. Type 3 general purpose flexible polyolefin is a good choice for occasional exposure to heat and chemicals.

Material Selection Guide

Property	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Flexible Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No
Specifications	VG 95343 Part 6 BSG 198-5-DE EN62329-102 AS5258 Type H	VG 95343 Part 29 BSG 198-5-DF EN62329-101 AS5258 Type G NAVSEA 5617649	MIL-I-81765/1 Type II AS5258 Type B

Dimensions in inches (millimeters) and are subject to change without notice.

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LIPPED STRAIGHT BOOTS FOR USE WITH BOOT ADAPTERS



Standard Boots

Pages 5-7

770-001S, 770-003S

Available in nine sizes, standard boots fit adapters from .250" (6.35) to 2.250" (57.15) diameter.



Short Boots

Pages 8-10

770-002S, 770-004S

Available in six sizes, short boots fit adapters from .450" (11.43) to 2.250" (57.15) diameter. Use where space is limited.



Long Tail Boots

Pages 11-13

770-006S

Available in seven sizes, long tail boots fit adapters from .500" (12.70) to 1.900" (48.26) diameter. Extended length provides added protection to open wire bundles or protects cable with jacket stripped further than normal.



High Ratio Boots

Pages 14-16

770-007S

Available in four sizes, high ratio boots fit adapters from .525" (13.34) to 1.650" (41.91) diameter. High ratio boots are used when the wire bundle or cable is much smaller diameter than normal.



Right Angle Boots

Pages 17-19

770-001A, 770-003A

Available in six sizes, right angle boots fit adapters from .350" (8.89) to 1.600" (40.64) diameter.

LIPLESS BOOTS FOR DIRECT ATTACHMENT TO CONNECTOR THREADS



Standard Boots

Pages 20-22

770-005S

Available in nine sizes, standard boots fit connectors from .250" (6.35) to 2.250" (57.15) diameter.



Right Angle Boots

Pages 23-25

770-005A

Available in seven sizes, right angle boots fit connectors from .250" (6.35) to 1.600" (40.64) diameter.

Dimensions in inches (millimeters) and are subject to change without notice.

Shrink Boot Typical Material Properties

Property	Type 1 High Performance Elastomer	Type 2 Zero Halogen Polyolefin	Type 3 General Purpose Polyolefin
Flexibility	Semi-rigid	Semi-flexible	Flexible
Operating Temperature Range	-75°C to +150°C	-30°C to +125°C	-55°C to +135°C
Shrink Temperature (min.)	135°C	135°C	135°C
Tensile Strength (psi)	1700	1100	1400
Elongation (% min.)	400	250	400
Long Term Heat Aging	3000 hrs, 150°C	3000 hrs, 125°C	
Heat Shock	4 hrs, 215°C	4 hrs, 175°C	4 hrs, 225°C
Heat Aging	168 hrs, 160°C	168 hrs, 150°C	168 hrs, 175°C
Dielectric Strength (V/mil)	300	380	250
Volume Resistivity (ohms-cm)	10 ¹³	10 ¹²	10 ¹²
Water Absorption (%)	0.5	0.5	0.5
Flammability	Burn Time < 15 sec. Burn Length <25mm	Burn Time < 15 sec. Burn Length <25mm	Burn Time < 120 sec. Burn Length <25mm
RoHS Compliant	Yes	Yes	Yes
Oxygen Index (% min.)		30	
Temperature Index (°C)		250	
Smoke Index (max.)		20	
Toxicity Index (max.)		3	

Shrink Boot Fluid Resistance

Fluid	Type 1 High Performance Elastomer	Type 2 Zero Halogen Polyolefin	Type 3 General Purpose Polyolefin
Lubricating Oil	Very good	Good	Good
Hydraulic Fluid	Very Good	Good	Good
Aviation Fuel	Very Good	Good	Good
Gasoline	Very Good	Fair	Fair
De-Icing Fluid	Excellent	Very Good	Good
Automotive Diesel	Good	Fair	Very Good

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots



Lipped Straight Shrink Boots



Straight boots with lip for attachment to standard circular connector adapters. After shrinking, the boot lip locks into adapter groove. Eyelet hole allows attachment of dust caps or protective covers. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur. Choose boot size based on adapter diameter and cable diameter.

Table 1: Boot Size Selection Guide

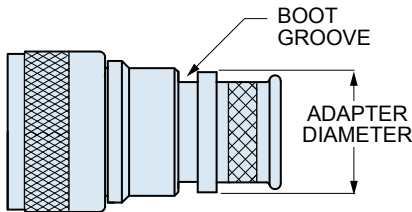
Boot Size	Adapter Diameter				Min. Cable Diameter	
	Inches		Millimeters			
	Min	Max	Min	Max	In.	mm.
00	.250	.325	6.35	8.26	.110	2.79
01	.325	.425	7.62	10.80	.150	3.81
02	.350	.600	8.89	15.24	.175	4.45
03	.450	.850	11.43	21.59	.225	5.72
04	.600	1.000	15.24	25.40	.275	6.99
05	.750	1.200	19.05	30.48	.300	7.62
06	.900	1.350	22.86	34.29	.375	9.53
07	1.250	1.650	31.75	41.91	.425	10.80
08	1.400	2.250	35.56	57.15	.625	15.88

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temp.	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No



Lipped Straight Shrink Boots- Type I High Performance Elastomer

- **-75° C to +150° C**
- **Excellent resistance to fuels, oils, solvents and heat.**

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration. Choose standard length or short length if space is limited. Black color.



Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
	00	—	—	—	770-003S100	770-003S100W1
01	—	—	—	770-003S101	770-003S101W1	770-003S101R
02	—	—	—	770-003S102	770-003S102W1	770-003S102R
03	770-001S103	770-001S103W1	770-001S103R	770-003S103	770-003S103W1	770-003S103R
04	770-001S104	770-001S104W1	770-001S104R	770-003S104	770-003S104W1	770-003S104R
05	770-001S105	770-001S105W1	770-001S105R	770-003S105	770-003S105W1	770-003S105R
06	770-001S106	770-001S106W1	770-001S106R	770-003S106	770-003S106W1	770-003S106R
07	770-001S107	770-001S107W1	770-001S107R	770-003S107	770-003S107W1	770-003S107R
08	770-001S108	770-001S108W1	770-001S108R	770-003S108	770-003S108W1	770-003S108R

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots How To Order

Lipped Straight Shrink Boots- Type 2 Zero Halogen, Semi-Rigid

- **Low Smoke, Zero Halogen**
- **Meets U.S. and E.U. toxicity requirements.**

Halogen-free polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including M85049 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number with Eyelet		Part Number without Eyelet	
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
00	—	—	770-003S200	770-003S200W1
01	—	—	770-003S201	770-003S201W1
02	—	—	770-003S202	770-003S202W1
03	770-001S203	770-001S203W1	770-003S203	770-003S203W1
04	770-001S204	770-001S204W1	770-003S204	770-003S204W1
05	770-001S205	770-001S205W1	770-003S205	770-003S205W1
06	770-001S206	770-001S206W1	770-003S206	770-003S206W1
07	770-001S207	770-001S207W1	770-003S207	770-003S207W1
08	770-001S208	770-001S208W1	770-003S208	770-003S208W1

Lipped Straight Shrink Boots- Type 3 Polyolefin, Flexible

- **General purpose harnessing**
- **Economical, flexible**
- **-55° C to +135° C**

Economical flexible polyolefin boots fit most standard shrink boot adapters, Glenair Series 31 and Series 44 adapters. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



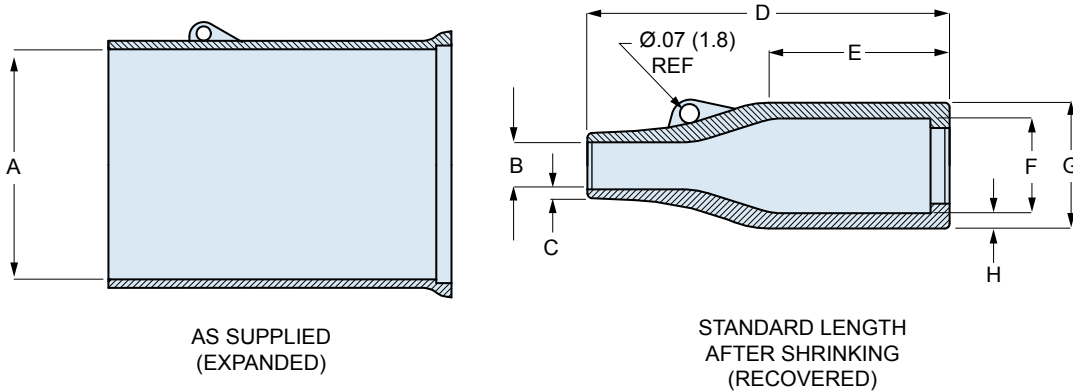
Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
00	—	—	—	770-003S300	770-003S300W2	770-003S300W1
01	—	—	—	770-003S301	770-003S301W2	770-003S301W1
02	—	—	—	770-003S302	770-003S302W2	770-003S302W1
03	770-001S303	770-001S303W2	770-001S303W1	770-003S303	770-003S303W2	770-003S303W1
04	770-001S304	770-001S304W2	770-001S304W1	770-003S304	770-003S304W2	770-003S304W1
05	770-001S305	770-001S305W2	770-001S305W1	770-003S305	770-003S305W2	770-003S305W1
06	770-001S306	770-001S306W2	770-001S306W1	770-003S306	770-003S306W2	770-003S306W1
07	770-001S307	770-001S307W2	770-001S307W1	770-003S307	770-003S307W2	770-003S307W1
08	770-001S308	770-001S308W2	770-001S308W1	770-003S308	770-003S308W2	770-003S308W1

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots Dimensions

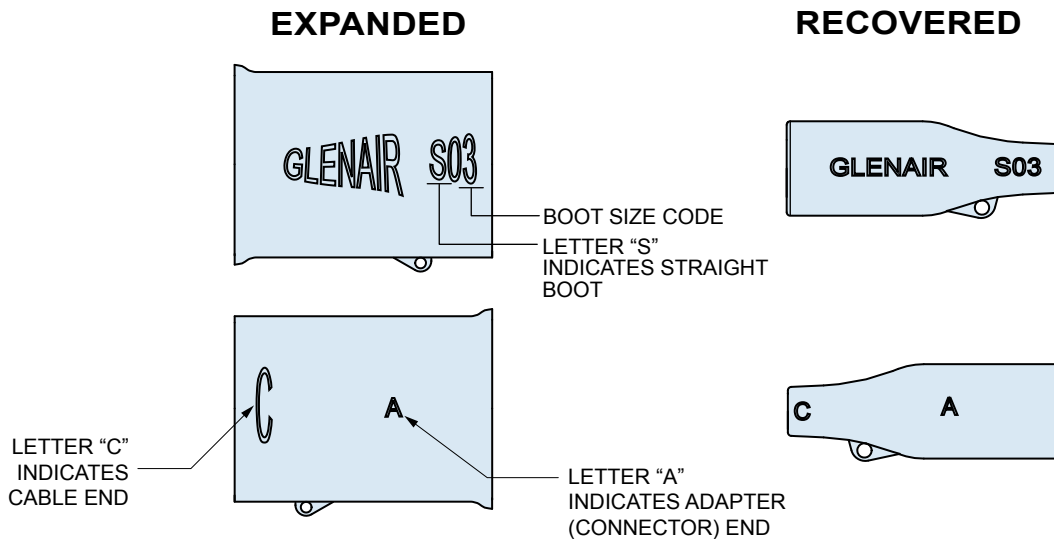


Lipped Straight Shrink Boots- Dimensions



Boot Size	A Min.		B Max.		C ± 20%		D ± 10%		E Ref.		F Max.		G Ref.		H ± 30%		J ± 10%	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
00	.354	9.0	.079	2.0	.028	0.7	.984	25.0	.551	14.0	.217	5.5	.295	7.5	.039	1.0	N/A	N/A
01	.472	12.0	.118	3.0	.028	0.7	.984	25.0	.551	14.0	.276	7.0	.362	9.2	.043	1.1	N/A	N/A
02	.669	17.0	.138	3.5	.028	0.7	1.181	30.0	.728	18.5	.276	7.0	.378	9.6	.051	1.3	N/A	N/A
03	.945	24.0	.197	5.0	.035	0.9	1.496	38.0	.748	19.0	.413	10.5	.520	13.2	.063	1.6	1.024	26.0
04	1.181	30.0	.236	6.0	.039	1.0	2.165	55.0	1.181	30.0	.551	14.0	.693	17.6	.071	1.8	1.693	43.0
05	1.260	32.0	.276	7.0	.047	1.2	2.638	67.0	1.299	33.0	.709	18.0	.850	21.6	.071	1.8	1.850	47.0
06	1.417	36.0	.335	8.5	.047	1.2	3.150	80.0	1.575	40.0	.866	22.0	.945	24.0	.079	2.0	2.362	60.0
07	1.693	43.0	.394	10.0	.051	1.3	3.898	99.0	2.165	55.0	1.102	28.0	1.276	32.4	.087	2.2	3.150	80.0
08	2.362	60.0	.591	15.0	.063	1.6	5.118	130.0	1.969	50.0	1.378	35.0	1.638	41.6	.130	3.3	4.331	110.0

Lipped Straight Shrink Boots- Part Marking, Raised Lettering



Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots, Short How To Order

Lipped Straight Shrink Boots, Short



Short straight boots with lip for attachment to standard circular connector adapters. These short boots are used where clearance is limited. After shrinking, the boot lip locks into adapter groove. Eyelet hole allows attachment of dust caps or protective covers. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur. Choose boot size based on adapter diameter and cable diameter.

Table 1: Boot Size Selection Guide

Boot Size	Adapter Diameter				Min. Cable Diameter	
	Inches		Millimeters			
	Min	Max	Min	Max	In.	mm.
03	.450	.850	11.43	21.59	.225	5.72
04	.600	1.000	15.24	25.40	.275	6.99
05	.750	1.200	19.05	30.48	.300	7.62
06	.900	1.350	22.86	34.29	.375	9.53
07	1.250	1.650	31.75	41.91	.425	10.80
08	1.400	2.250	35.56	57.15	.625	15.88

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No

Lipped Straight Shrink Boots, Short- Type 1 High Performance Elastomer

- **-75° C to +150° C**
- **Excellent resistance to fuels, oils, solvents and heat.**

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration.

Short Lipped Boot Part Numbers



Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
03	770-002S103	770-002S103W1	770-002S103R	770-004S103	770-004S103W1	770-004S103R
04	770-002S104	770-002S104W1	770-002S104R	770-004S104	770-004S104W1	770-004S104R
05	770-002S105	770-002S105W1	770-002S105R	770-004S105	770-004S105W1	770-004S105R
06	770-002S106	770-002S106W1	770-002S106R	770-004S106	770-004S106W1	770-004S106R
07	770-002S107	770-002S107W1	770-002S107R	770-004S107	770-004S107W1	770-004S107R
08	770-002S108	770-002S108W1	770-002S108R	770-004S108	770-004S108W1	770-004S108R

Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324

Printed in U.S.A.

Series 77 Shrink Boots Straight Lipped Adapter Boots, Short How To Order



Lipped Straight Shrink Boots, Short- Type 2 Zero Halogen

- *Low Smoke, Zero Halogen*
- *-30° C to +125° C*

Halogen-free semi-flexible polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including M85049 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number with Eyelet		Part Number without Eyelet	
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
03	770-002S203	770-002S203W1	770-004S203	770-004S203W1
04	770-002S204	770-002S204W1	770-004S204	770-004S204W1
05	770-002S205	770-002S205W1	770-004S205	770-004S205W1
06	770-002S206	770-002S206W1	770-004S206	770-004S206W1
07	770-002S207	770-002S207W1	770-004S207	770-004S207W1
08	770-002S208	770-002S208W1	770-004S208	770-004S208W1

Lipped Straight Shrink Boots, Short- Type 3 Polyolefin, Flexible

- *General purpose harnessing*
- *Economical, flexible*
- *-55° C to +135° C*

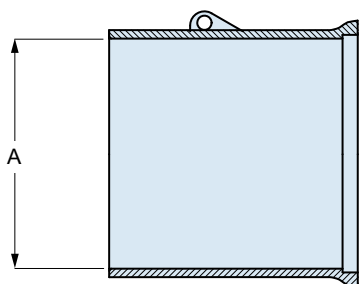
Economical flexible polyolefin boots fit standard shrink boot adapters, Glenair Series 31 and Series 44 adapters. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



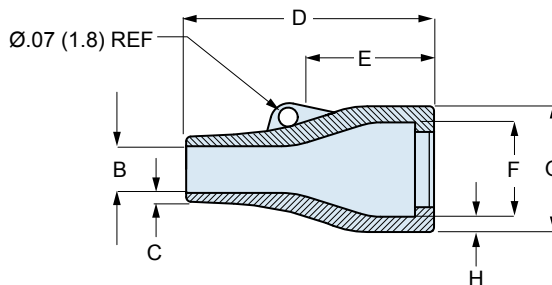
Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
03	770-002S303	770-002S303W2	770-002S303W1	770-002S303	770-004S303W2	770-004S303W1
04	770-002S304	770-002S304W2	770-002S304W1	770-002S304	770-004S304W2	770-004S304W1
05	770-002S305	770-002S305W2	770-002S305W1	770-002S305	770-004S305W2	770-004S305W1
06	770-002S306	770-002S306W2	770-002S306W1	770-002S306	770-004S306W2	770-004S306W1
07	770-002S307	770-002S307W2	770-002S307W1	770-002S307	770-004S307W2	770-004S307W1
08	770-002S308	770-002S308W2	770-002S308W1	770-002S308	770-004S308W2	770-004S308W1

Dimensions in inches (millimeters) and are subject to change without notice.

Lipped Straight Shrink Boots, Short- Dimensions



AS SUPPLIED
(EXPANDED)

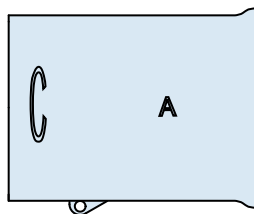


AFTER SHRINKING
(RECOVERED)

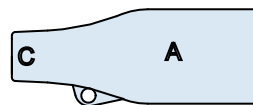
Boot Size	A Min.		B Max.		C ± 20%		D ± 10%		E Ref.		F Max.		G Ref.		H ± 30%	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
03	.945	24.0	.197	5.0	.035	0.9	1.496	38.0	.748	19.0	.413	10.5	.520	13.2	.063	1.6
04	1.181	30.0	.236	6.0	.039	1.0	2.165	55.0	1.181	30.0	.551	14.0	.693	17.6	.071	1.8
05	1.260	32.0	.276	7.0	.047	1.2	2.638	67.0	1.299	33.0	.709	18.0	.850	21.6	.071	1.8
06	1.417	36.0	.335	8.5	.047	1.2	3.150	80.0	1.575	40.0	.866	22.0	.945	24.0	.079	2.0
07	1.693	43.0	.394	10.0	.051	1.3	3.898	99.0	2.165	55.0	1.102	28.0	1.276	32.4	.087	2.2
08	2.362	60.0	.591	15.0	.063	1.6	5.118	130.0	1.969	50.0	1.378	35.0	1.638	41.6	.130	3.3

Lipped Straight Shrink Boots, Short- Part Marking, Raised Lettering

EXPANDED



RECOVERED



Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots, Long Tail How To Order



Lipped Straight Shrink Boots, Long Tail



Straight lipped extended length boots for attachment to standard boot adapters. Long tail provides additional cable strain relief compared to standard length boots. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur.

Table 1: Boot Size Selection Guide

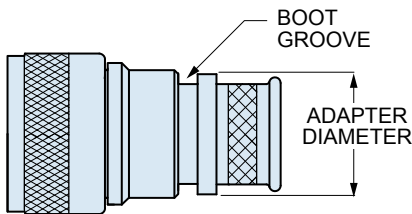
Boot Size	Adapter Diameter				Min. Cable Diameter	
	Inches		Millimeters		In.	mm.
02	.500	.800	12.70	20.32	.275	6.99
03	.650	.900	16.51	22.86	.325	8.26
04	.825	1.000	20.96	25.40	.375	9.53
05	.900	1.300	22.86	33.02	.425	10.80
06	1.250	1.400	31.75	35.56	.450	11.43
07	1.450	1.700	36.83	43.18	.525	13.34
08	1.650	1.900	41.91	48.26	.600	15.24

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Flammability	Self-Extinguishing <15 Sec.	Self-Extinguishing <15 Sec.	Self-Extinguishing <120 Sec.
Low Temperature Flexibility	-70°C	-30°C	-55°C
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No



Lipped Straight Long Tail Boots- Type I High Performance Elastomer

- -75° C to +150° C
- Excellent resistance to fuels, oils, solvents and heat.

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration.



Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
02	770-006S102	770-006S102W1	770-006S102R
03	770-006S103	770-006S103W1	770-006S103R
04	770-006S104	770-006S104W1	770-006S104R
05	770-006S105	770-006S105W1	770-006S105R
06	770-006S106	770-006S106W1	770-006S106R
07	770-006S107	770-006S107W1	770-006S107R
08	770-006S108	770-006S108W1	770-006S108R

Dimensions in inches (millimeters) and are subject to change without notice.

Lipped Straight Long Tail Shrink Boots

- **Low Smoke, Zero Halogen**
- **Meets U.S. and E.U. toxicity requirements.**
- **-30° C to +125° C**

Halogen-free semi-flexible polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including M85049 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number	
	No Adhesive Lining	Pre-Coated with W1 Hot-Melt Adhesive
02	770-006S202	770-006S202W1
03	770-006S203	770-006S203W1
04	770-006S204	770-006S204W1
05	770-006S205	770-006S205W1
06	770-006S206	770-006S206W1
07	770-006S207	770-006S207W1
08	770-006S208	770-006S208W1

Lipped Straight Long Tail Boots- Type 3 Polyolefin, Flexible

- **General purpose harnessing**
- **Economical, flexible**
- **-55° C to +135° C**

Economical flexible polyolefin boots fit standard shrink boot adapters, Glenair Series 31 and Series 44 adapters. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



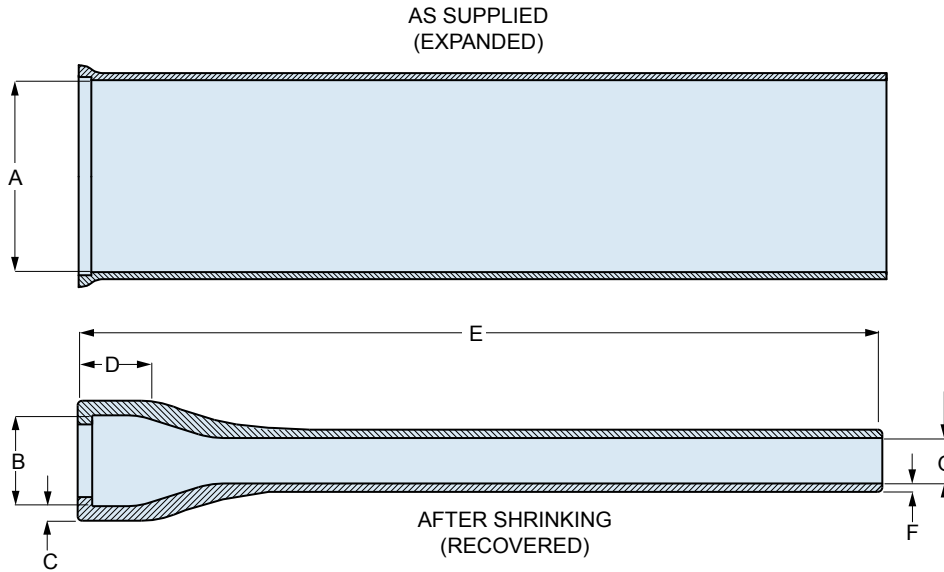
Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
02	770-006S302	770-006S302W2	770-006S302W1
03	770-006S303	770-006S303W2	770-006S303W1
04	770-006S304	770-006S304W2	770-006S304W1
05	770-006S305	770-006S305W2	770-006S305W1
06	770-006S306	770-006S306W2	770-006S306W1
07	770-006S307	770-006S307W2	770-006S307W1
08	770-006S308	770-006S308W2	770-006S308W1

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots, Long Tail Dimensions

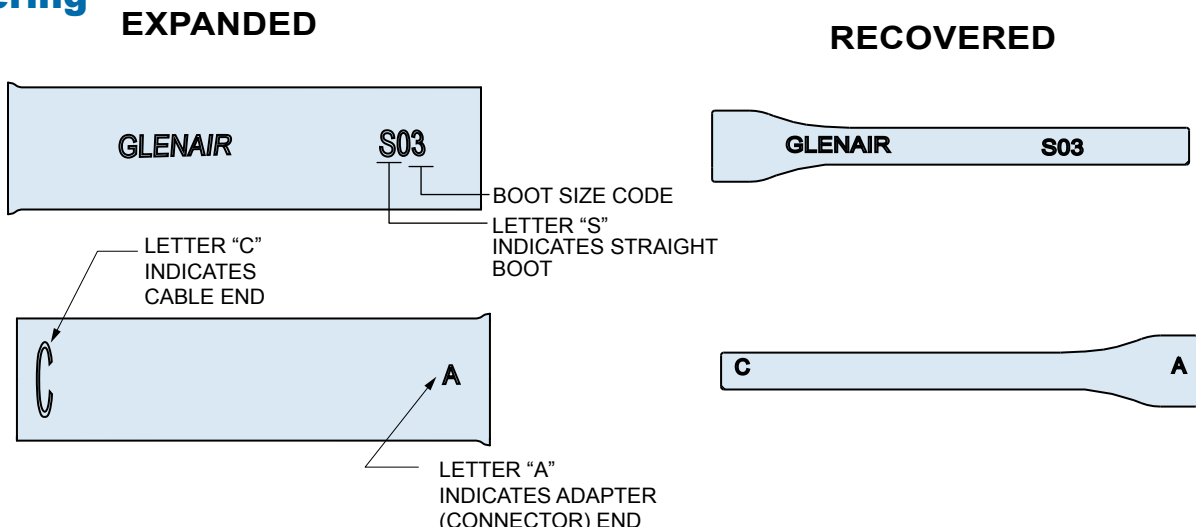


Lipped Straight Long Tail Shrink Boots- Dimensions



Boot Size	A Min.		B Max.		C ± 30%		D Ref.		E ± 30%		F ± 20%		G Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
02	.886	22.5	.433	11.0	.059	1.5	.551	14.0	4.330	110	.047	1.2	.256	6.5
03	.984	25.0	.591	15.0	.059	1.5	.591	15.0	4.724	120	.047	1.2	.295	7.5
04	1.181	30.0	.748	19.0	.071	1.8	.591	15.0	5.512	140	.047	1.2	.335	8.5
05	1.378	35.0	.827	21.0	.071	1.8	.787	20.0	6.299	160	.047	1.2	.374	9.5
06	1.476	37.5	1.181	30.0	.079	2.0	.787	20.0	7.087	180	.047	1.2	.413	10.5
07	1.772	45.0	1.339	34.0	.079	2.0	.984	25.0	7.874	200	.047	1.2	.472	12.0
08	1.969	50.0	1.575	40.0	.091	2.3	.984	25.0	7.874	200	.059	1.5	.551	14.0

Lipped Straight Long Tail Shrink Boots- Part Marking, Raised Lettering



Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots, High Ratio How To Order

Lipped Straight Shrink Boots, High Ratio



Straight lipped high ratio boots are used when the cable or wire bundle is much smaller diameter than the adapter. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur.

Table 1: Boot Size Selection Guide

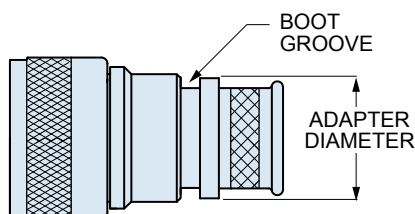
Boot Size	Adapter Diameter				Min. Cable Diameter	
	Inches		Millimeters			
	Min	Max	Min	Max	In.	mm.
03	.525	.750	13.34	19.05	.100	2.54
04	.775	.950	19.69	24.13	.125	3.18
06	1.050	1.300	26.67	33.02	.150	3.81
07	1.375	1.650	34.93	41.91	.170	4.32

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Flammability	Self-Extinguishing <15 Sec.	Self-Extinguishing <15 Sec.	Self-Extinguishing <120 Sec.
Low Temperature Flexibility	-70°C	-30°C	-55°C
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No



Lipped Straight High Ratio Boots- Type I High Performance Elastomer

- -75° C to +150° C
- Excellent resistance to fuels, oils, solvents and heat.

Straight lipped high ratio boots are used when the cable or wire bundle is much smaller diameter than the adapter. Semi-rigid high performance material combines excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration.



Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
03	770-007S103	770-007S103W1	770-007S103R
04	770-007S104	770-007S104W1	770-007S104R
06	770-007S106	770-007S106W1	770-007S106R
07	770-007S107	770-007S107W1	770-007S107R

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipped Adapter Boots, High Ratio How To Order



Lipped Straight High Ratio Shrink Boots

- **Low Smoke, Zero Halogen**
- **Meets U.S. and E.U. toxicity requirements.**
- **-30° C to +125° C**

Straight lipped high ratio boots are used when the cable or wire bundle is much smaller diameter than the adapter. Halogen-free semi-flexible polyolefin meets low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including AS5258 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number	
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
03	770-007S203	770-007S203W1
04	770-007S204	770-007S204W1
06	770-007S206	770-007S206W1
07	770-007S207	770-007S207W1

Lipped Straight High Ratio Boots- Type 3 Polyolefin, Flexible

- **General purpose harnessing**
- **Economical, flexible**
- **-55° C to +135° C**

Straight lipped high ratio boots are used when the cable or wire bundle is much smaller diameter than the adapter. Economical flexible polyolefin boots fit standard M85049 shrink boot adapters, Glenair Series 31 and Series 44 adapters. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.

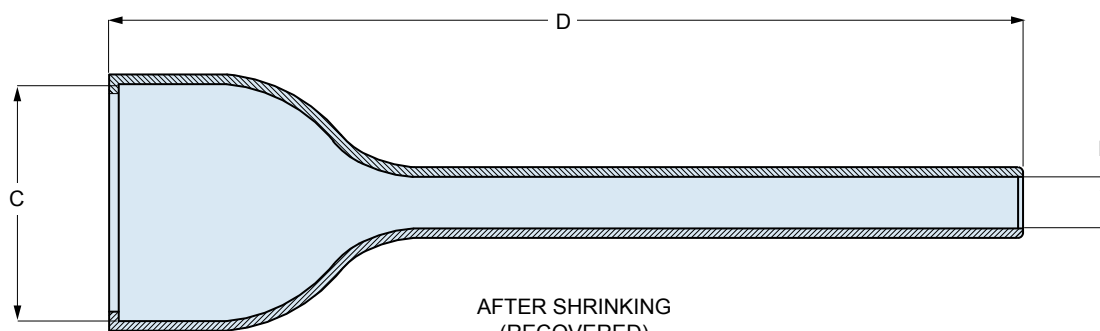
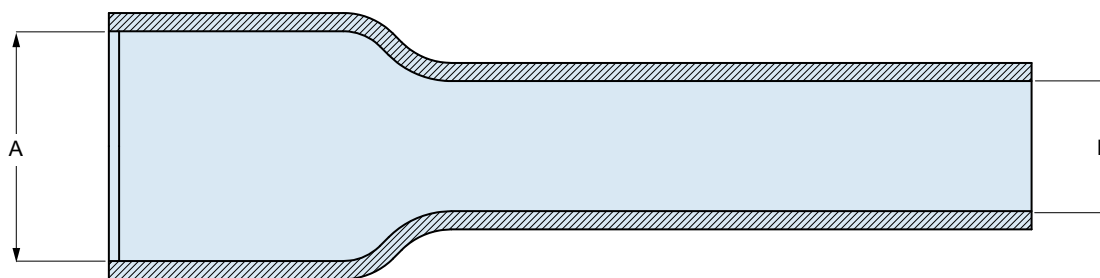


Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
03	770-007S303	770-007S303W2	770-007S303W1
04	770-007S304	770-007S304W2	770-007S304W1
06	770-007S306	770-007S306W2	770-007S306W1
07	770-007S307	770-007S307W2	770-007S307W1

Dimensions in inches (millimeters) and are subject to change without notice.

Lipped Straight High Ratio Shrink Boots- Dimensions

AS SUPPLIED
(EXPANDED)



AFTER SHRINKING
(RECOVERED)

Boot Size	A Min.		B Max.		C Max.		D ± 10%		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
03	.760	19.30	.252	6.40	.512	13.00	2.370	60.2	.083	2.10
04	1.031	26.20	.299	7.60	.752	19.10	2.921	74.2	.102	2.60
06	1.350	34.30	.382	9.70	1.024	26.00	3.319	84.3	.122	3.10
07	1.720	43.70	.449	11.40	1.343	34.10	3.921	99.6	.142	3.60

Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324

Printed in U.S.A.

Series 77 Shrink Boots Right Angle Lipped Adapter Boots How To Order



Lipped Right Angle Shrink Boots



Right angle boots with lip for attachment to standard circular connector adapters. After shrinking, the boot lip locks into adapter groove. Eyelet hole allows attachment of dust caps or protective covers. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur.

Table 1: Boot Size Selection Guide

Boot Size	Adapter Diameter				Min. Cable Diameter	
	Inches		Millimeters		In.	mm.
02	.350	.625	8.89	15.88	.175	4.45
03	.450	.850	11.43	21.59	.225	5.72
04	.575	1.000	14.61	25.40	.250	6.35
05	.750	1.200	19.05	30.48	.300	7.62
06	.950	1.350	24.13	34.29	.375	9.53
07	1.150	1.600	29.21	40.64	.425	10.80

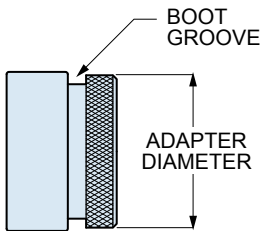


Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Flammability	Self-Extinguishing <15 Sec.	Self-Extinguishing <15 Sec.	Self-Extinguishing <120 Sec.
Low Temperature Flexibility	-70°C	-30°C	-55°C
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No

Lipped Right Angle Boots- Type I High Performance Elastomer

- -75° C to +150° C
- Excellent resistance to fuels, oils, solvents and heat.

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit most standard boot adapters for circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration. Black color.



Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
02	—	—	—	770-003A102	770-003A102W1	770-003A102R
03	770-001A103	770-001A103W1	770-001A103R	770-003A103	770-003A103W1	770-003A103R
04	770-001A104	770-001A104W1	770-001A104R	770-003A104	770-003A104W1	770-003A104R
05	770-001A105	770-001A105W1	770-001A105R	770-003A105	770-003A105W1	770-003A105R
06	770-001A106	770-001A106W1	770-001A106R	770-003A106	770-003A106W1	770-003A106R
07	770-001A107	770-001A107W1	770-001A107R	770-003A107	770-003A107W1	770-003A107R

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Right Angle Lipped Adapter Boots How To Order

Lipped Right Angle Shrink Boots- Type 2 Zero Halogen, Semi-Rigid

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

Halogen-free polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. These Low Smoke/Zero Halogen (LSZH) boots fit most standard shrink boot adapters, including M85049 types along with Glenair Series 31 and Series 44 adapters. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with epoxy or hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number with Eyelet		Part Number without Eyelet	
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
02	—	—	770-003A202	770-003A202W1
03	770-001A203	770-001A203W1	770-003A203	770-003A203W1
04	770-001A204	770-001A204W1	770-003A204	770-003A204W1
05	770-001A205	770-001A205W1	770-003A205	770-003A205W1
06	770-001A206	770-001A206W1	770-003A206	770-003A206W1
07	770-001A207	770-001A207W1	770-003A207	770-003A207W1

Lipped Right Angle Boots- Type 3 Polyolefin, Flexible

- *General purpose harnessing*
- *Economical, flexible*

Economical flexible lipped polyolefin boots for attachment to connector adapters. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



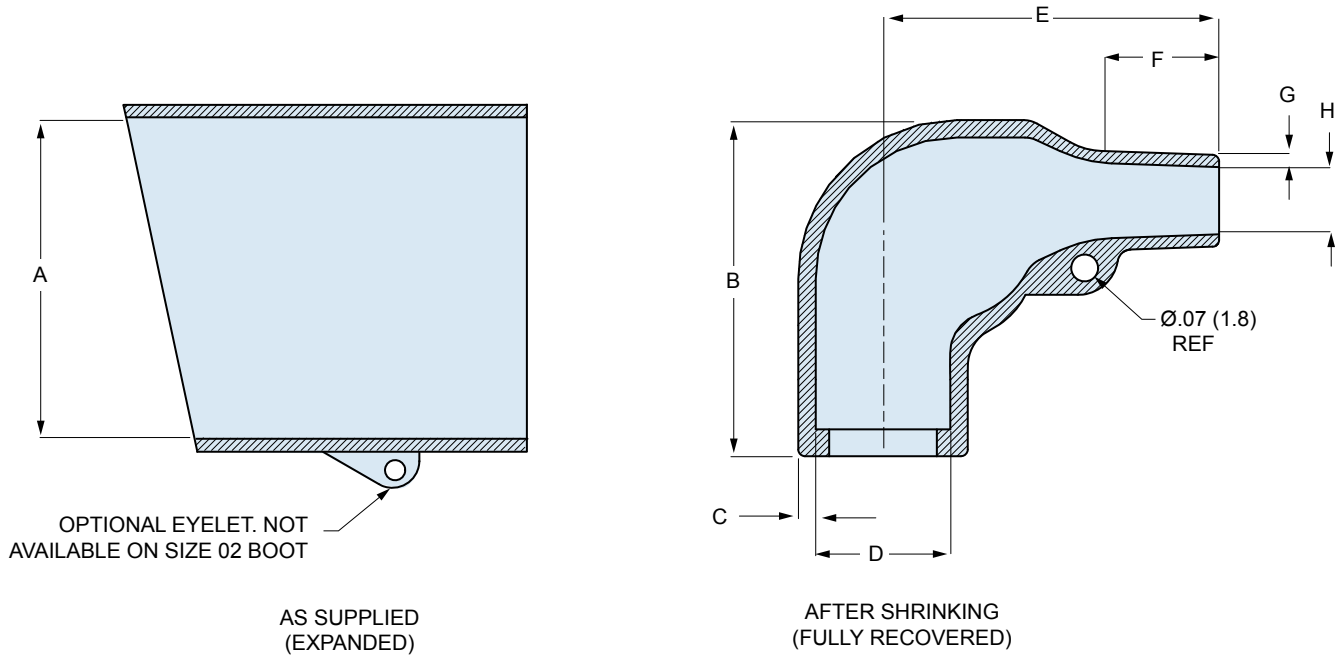
Boot Size	Part Number with Eyelet			Part Number without Eyelet		
	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	No Adhesive Lining	Pre-Coated with W2 Hot-Melt Adhesive	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
02	—	—	—	770-003A302	770-003A302W2	770-003A302W1
03	770-001A303	770-001A303W2	770-001A303W1	770-003A303	770-003A303W2	770-003A303W1
04	770-001A304	770-001A304W2	770-001A304W1	770-003A304	770-003A304W2	770-003A304W1
05	770-001A305	770-001A305W2	770-001A305W1	770-003A305	770-003A305W2	770-003A305W1
06	770-001A306	770-001A306W2	770-001A306W1	770-003A306	770-003A306W2	770-003A306W1
07	770-001A307	770-001A307W2	770-001A307W1	770-003A307	770-003A307W2	770-003A307W1

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Right Angle Lipped Adapter Boots Dimensions

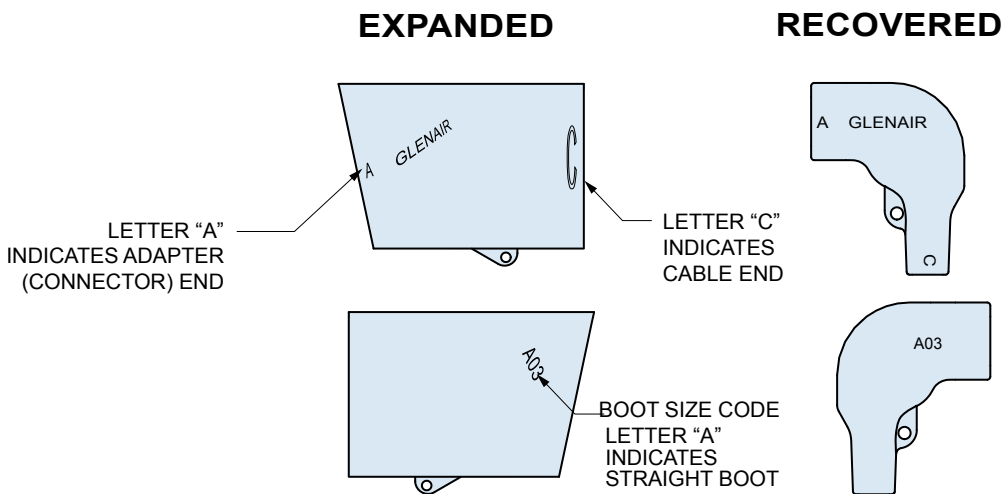


Lipped Right Angle Shrink Boots- Dimensions



Boot Size	A Min.		B Ref.		C ± 30%		D Max.		E ± 20%		F Ref.		G ± 20%		H Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
02	.669	17.0	.787	20.0	.051	1.3	.315	8.0	.787	20.0	.276	7.0	.028	0.7	.138	3.5
03	.945	24.0	.984	25.0	.063	1.6	.394	10.0	.984	25.0	.394	10.0	.035	0.9	.197	5.0
04	1.181	30.0	1.063	27.0	.071	1.8	.532	13.5	1.260	32.0	.472	12.0	.039	1.0	.217	5.5
05	1.260	32.0	1.260	32.0	.071	1.8	.709	18.0	1.535	39.0	.591	15.0	.047	1.2	.276	7.0
06	1.417	36.0	1.496	38.0	.079	2.0	.886	22.5	1.929	49.0	.630	16.0	.047	1.2	.335	8.5
07	1.693	43.0	1.850	47.0	.087	2.2	1.102	28.0	2.165	55.0	.709	18.0	.059	1.5	.394	10.0

Lipped Right Angle Shrink Boots- Part Marking, Raised Lettering



Dimensions in inches (millimeters) and are subject to change without notice.

Lipless Straight Shrink Boots

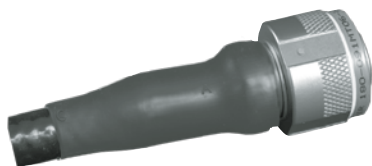
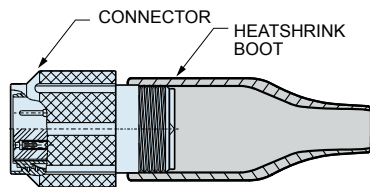


Table 1: Boot Size Selection Guide

Boot Size	Connector Diameter				Min. Cable Diameter	
	Inches		Millimeters			
	Min	Max	Min	Max	In.	mm.
00	.250	.325	6.35	8.26	.110	2.79
01	.300	.425	7.62	10.80	.150	3.81
02	.350	.600	8.89	15.24	.175	4.45
03	.450	.850	11.43	21.59	.225	5.72
04	.600	1.000	15.24	25.40	.275	6.99
05	.750	1.200	19.05	30.48	.300	7.62
06	.900	1.350	22.86	34.29	.375	9.53
07	1.250	1.650	31.75	41.91	.425	10.80
08	1.400	2.250	35.56	57.15	.625	15.88



LIPLESS BOOT

Straight lipless boots for attachment directly to standard military circular connectors. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur.

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Flammability	Self-Extinguishing <15 Sec.	Self-Extinguishing <15 Sec.	Self-Extinguishing <120 Sec.
Low Temperature Flexibility	-70°C	-30°C	-55°C
Low Toxicity, Zero Halogen	No	Yes	No

Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No

Lipless Straight Shrink Boots- Type I High Performance Elastomer

- **-75° C to +150° C**
- **Excellent resistance to fuels, oils, solvents and heat.**



Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C, these boots fit standard circular connectors. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration. Black color.

Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
00	770-005S100	770-005S100W1	770-005S100R
01	770-005S101	770-005S101W1	770-005S101R
02	770-005S102	770-005S102W1	770-005S102R
03	770-005S103	770-005S103W1	770-005S103R
04	770-005S104	770-005S104W1	770-005S104R
05	770-005S105	770-005S105W1	770-005S105R
06	770-005S106	770-005S106W1	770-005S106R
07	770-005S107	770-005S107W1	770-005S107R
08	770-005S108	770-005S108W1	770-005S108R

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Straight Lipless Boots How To Order



Lipless Straight Shrink Boots- Type 2 Zero Halogen, Semi-Rigid

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

Halogen-free polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number	
	No Adhesive Lining	Pre-Coated with <i>W1</i> Hi-Temp Hot-Melt Adhesive
00	770-005S200	770-005S200W1
01	770-005S201	770-005S201W1
02	770-005S202	770-005S202W1
03	770-005S203	770-005S203W1
04	770-005S204	770-005S204W1
05	770-005S205	770-005S205W1
06	770-005S206	770-005S206W1
07	770-005S207	770-005S207W1
08	770-005S208	770-005S208W1

Lipless Straight Shrink Boots- Type 3 Polyolefin, Flexible

- *General purpose harnessing*
- *Economical, flexible*
- *-55° C to +135° C*

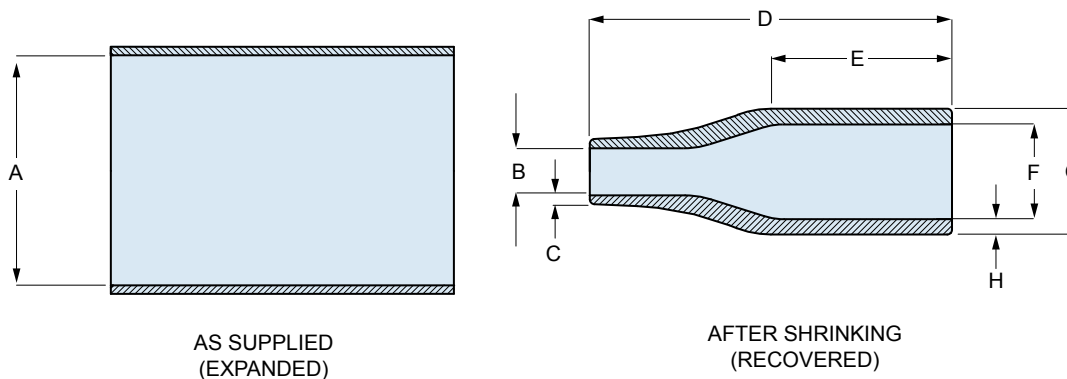
Economical flexible polyolefin boots with no lip, for direct attachment to connectors. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with <i>W2</i> Hot-Melt Adhesive	Pre-Coated with <i>W1</i> Hi-Temp Hot-Melt Adhesive
00	770-005S300	770-005S300W2	770-005S300W1
01	770-005S301	770-005S301W2	770-005S301W1
02	770-005S302	770-005S302W2	770-005S302W1
03	770-005S303	770-005S303W2	770-005S303W1
04	770-005S304	770-005S304W2	770-005S304W1
05	770-005S305	770-005S305W2	770-005S305W1
06	770-005S306	770-005S306W2	770-005S306W1
07	770-005S307	770-005S307W2	770-005S307W1
08	770-005S308	770-005S308W2	770-005S308W1

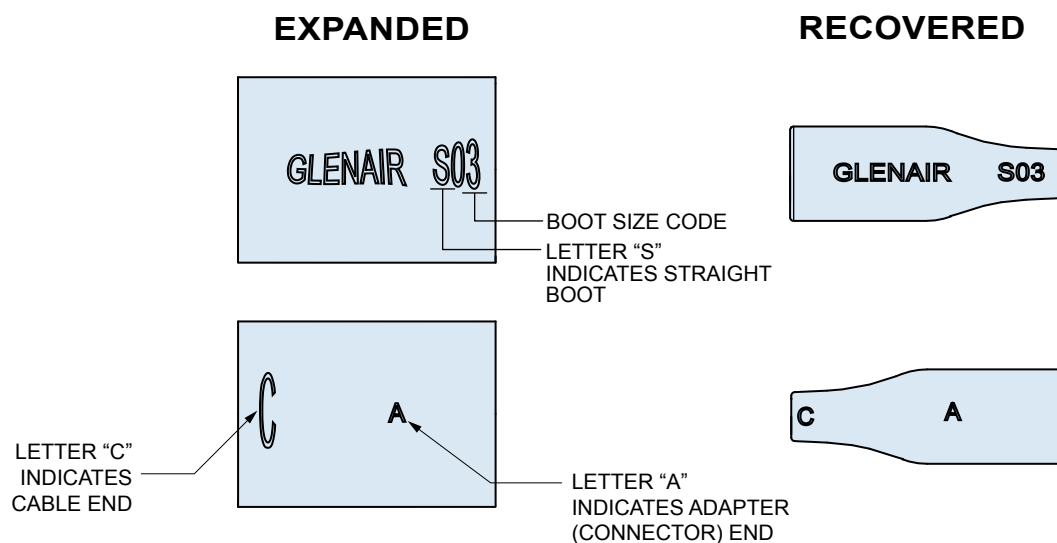
Dimensions in inches (millimeters) and are subject to change without notice.

Lipless Straight Shrink Boots- Dimensions



Boot Size	A Min.		B Max.		C $\pm 20\%$		D $\pm 10\%$		E Ref.		F Max.		G Ref.		H $\pm 30\%$	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
00	.354	9.0	.079	2.0	.028	0.7	.984	25.0	.551	14.0	.217	5.5	.295	7.5	.039	1.0
01	.472	12.0	.118	3.0	.028	0.7	.984	25.0	.551	14.0	.276	7.0	.362	9.2	.043	1.1
02	.669	17.0	.138	3.5	.028	0.7	1.181	30.0	.728	18.5	.276	7.0	.378	9.6	.051	1.3
03	.945	24.0	.197	5.0	.035	0.9	1.496	38.0	.748	19.0	.413	10.5	.520	13.2	.063	1.6
04	1.181	30.0	.236	6.0	.039	1.0	2.165	55.0	1.181	30.0	.551	14.0	.693	17.6	.071	1.8
05	1.260	32.0	.276	7.0	.047	1.2	2.638	67.0	1.299	33.0	.709	18.0	.850	21.6	.071	1.8
06	1.417	36.0	.335	8.5	.047	1.2	3.150	80.0	1.575	40.0	.866	22.0	.945	24.0	.079	2.0
07	1.693	43.0	.394	10.0	.051	1.3	3.898	99.0	2.165	55.0	1.102	28.0	1.276	32.4	.087	2.2
08	2.362	60.0	.591	15.0	.063	1.6	5.118	130.0	1.969	50.0	1.378	35.0	1.638	41.6	.130	3.3

Lipless Straight Boots- Part Marking, Raised Lettering



Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Right Angle Lipless Boots How To Order



Right Angle Shrink Boots, Lipless



Right angle lipless boots for attachment directly to standard circular connectors. Choose Type 1 high performance elastomer for extreme temperatures and excellent resistance to fuels and oils, Type 2 non-halogenated flame-retardant polyolefin for use where limited fire hazard is required, or choose Type 3 general purpose polyolefin for use where occasional exposure to heat and chemicals may occur.

Table 1: Boot Size Selection Guide

Boot Size	Connector Diameter				Min. Cable Diameter	
	Inches		Millimeters			
	Min	Max	Min	Max	In.	mm.
00	.250	.325	6.35	8.26	.110	2.79
02	.350	.625	8.89	15.88	.175	4.45
03	.450	.850	11.43	21.59	.225	5.72
04	.575	1.000	14.61	25.40	.250	6.35
05	.750	1.200	19.05	30.48	.300	7.62
06	.950	1.350	24.13	34.29	.375	9.53
07	1.150	1.600	29.21	40.64	.425	10.80

Table 2: Material Selection Guide

Attribute	Type 1 High Performance Semi-Rigid Elastomer	Type 2 Zero Halogen Semi-Rigid Polyolefin	Type 3 General Purpose Flexible Polyolefin
Continuous Operating Temperature	-75° to +150°C	-30° to +125°C	-55° to +135°C
Resistance to Fuels, Oils, and Fluids	Excellent	Very Good	Good
Flammability	Self-Extinguishing <15 Sec.	Self-Extinguishing <15 Sec.	Self-Extinguishing <120 Sec.
Low Temperature Flexibility	-70°C	-30°C	-55°C
Low Toxicity, Zero Halogen	No	Yes	No

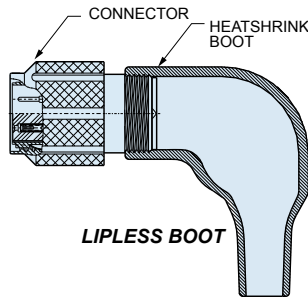


Table 3: Pre-Coated Boots Adhesive Information

Attribute	W2 Standard Hot Melt Adhesive	W1 High Temperature Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 3	Types 1, 2 and 3	Type 1
Continuous Operating Temp.	-40° to +70°C	-55° to +105°C	-75° to +150°C
Resistance to Fuels, Oils, and Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	No	Yes	No

Lipless Right Angle Boots- Type I High Performance Elastomer

- -75° C to +150° C
- Excellent resistance to fuels, oils, solvents and heat.

Semi-rigid high performance boots combine excellent resistance to fuels, oils and solvents with superior performance at extreme temperatures. Rated for 3000 hours continuous operation at +150° C. Material meets the requirements of VG95343 Type 6, BSG 198-5-DE, EN62329-102 and SAE AS5258 Type H. These boots are recommended for demanding applications such as military vehicles and petrochemical exploration.



Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive	Pre-Coated with R Epoxy Adhesive
00	770-005A100	770-005A100W1	770-005A100R
02	770-005A102	770-005A102W1	770-005A102R
03	770-005A103	770-005A103W1	770-005A103R
04	770-005A104	770-005A104W1	770-005A104R
05	770-005A105	770-005A105W1	770-005A105R
06	770-005A106	770-005A106W1	770-005A106R
07	770-005A107	770-005A107W1	770-005A107R

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Right Angle Lipless Boots How To Order

Lipless Right Angle Shrink Boots- Type 2 Zero Halogen, Semi-Rigid

- *Low Smoke, Zero Halogen*
- *Meets U.S. and E.U. toxicity requirements.*

Halogen-free polyolefin boots meet low smoke and toxicity requirements of shipboard, transit and aircraft systems. Oxygen index greater than 30%, smoke index less than 20, and toxicity index under 3 per 100 grams. Material meets requirements of NAVSEA 5617649, VG95343 Part 29, BSG 198-5-DF, EN62329-101 and SAE AS5258 Type G. Good resistance to oils, fuels and solvents. Available with high temperature hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.



Boot Size	Part Number	
	No Adhesive Lining	Pre-Coated with <i>W1</i> Hi-Temp Hot-Melt Adhesive
00	770-005A200	770-005A200W1
02	770-005A202	770-005A202W1
03	770-005A203	770-005A203W1
04	770-005A204	770-005A204W1
05	770-005A205	770-005A205W1
06	770-005A206	770-005A206W1
07	770-005A207	770-005A207W1

Lipless Right Angle Shrink Boots- Type 3 Polyolefin, Flexible

- *General purpose harnessing*
- *Economical, flexible*
- *-55° C to +135° C*

Economical flexible polyolefin boots with no lip, for direct attachment to connectors. These self-extinguishing boots meet the requirements of SAE AS81765/1 Type II. Good resistance to oils and fuels. Available with optional hot melt adhesive lining, these boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -55° to +135° C. Black color.



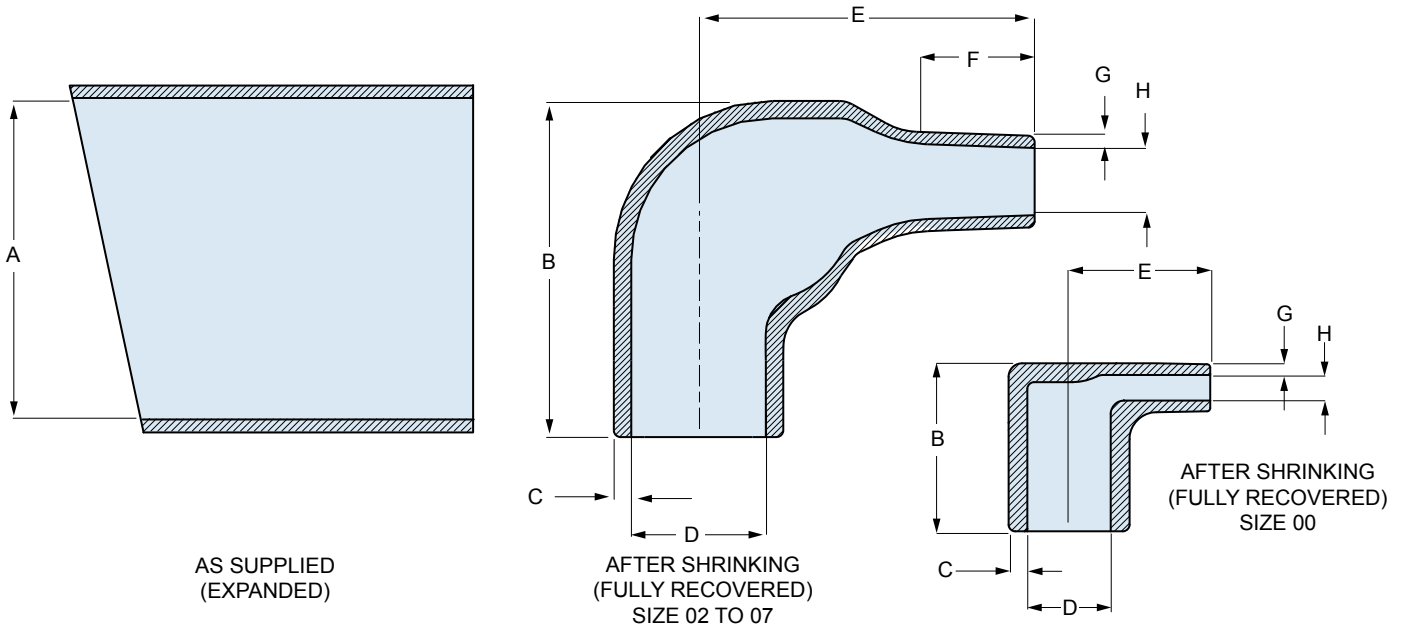
Boot Size	Part Number		
	No Adhesive Lining	Pre-Coated with <i>W2</i> Hot-Melt Adhesive	Pre-Coated with <i>W1</i> Hi-Temp Hot-Melt Adhesive
00	770-005A300	770-005A300W2	770-005A300W1
02	770-005A302	770-005A302W2	770-005A302W1
03	770-005A303	770-005A303W2	770-005A303W1
04	770-005A304	770-005A304W2	770-005A304W1
05	770-005A305	770-005A305W2	770-005A305W1
06	770-005A306	770-005A306W2	770-005A306W1
07	770-005A307	770-005A307W2	770-005A307W1

Dimensions in inches (millimeters) and are subject to change without notice.

Series 77 Shrink Boots Right Angle Lipless Boots Dimensions

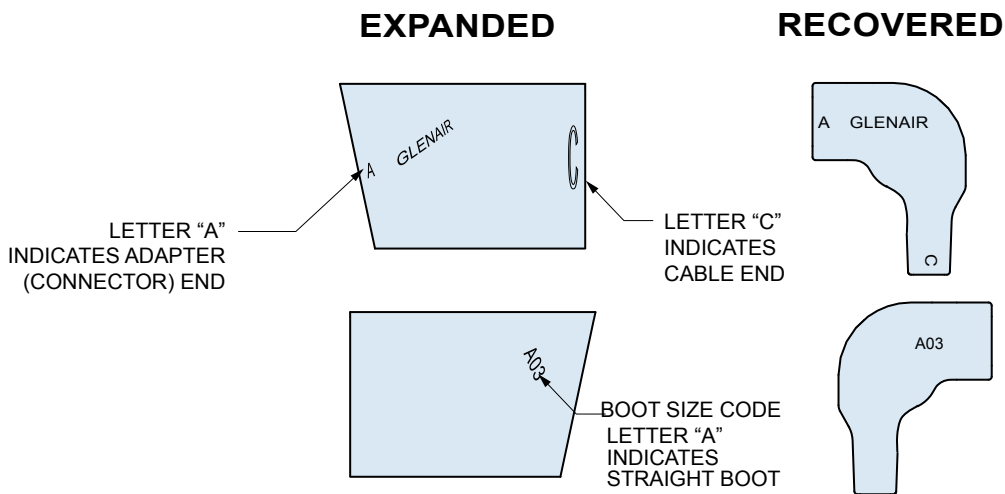


Lipless Right Angle Shrink Boots- Dimensions



Boot Size	A Min.		B Ref.		C ± 30%		D Max.		E ± 20%		F Ref.		G ± 20%		H Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
00	.354	9.0	.492	12.5	.039	1.0	.236	6.0	.413	10.5	NA	NA	.028	0.7	.079	2.0
02	.669	17.0	.787	20.0	.051	1.3	.315	8.0	.787	20.0	.276	7.0	.028	0.7	.138	3.5
03	.945	24.0	.984	25.0	.063	1.6	.394	10.0	.984	25.0	.394	10.0	.035	0.9	.197	5.0
04	1.181	30.0	1.063	27.0	.071	1.8	.532	13.5	1.260	32.0	.472	12.0	.039	1.0	.217	5.5
05	1.260	32.0	1.260	32.0	.071	1.8	.709	18.0	1.535	39.0	.591	15.0	.047	1.2	.276	7.0
06	1.417	36.0	1.496	38.0	.079	2.0	.886	22.5	1.929	49.0	.630	16.0	.047	1.2	.335	8.5
07	1.693	43.0	1.850	47.0	.087	2.2	1.102	28.0	2.165	55.0	.709	18.0	.059	1.5	.394	10.0

Lipless Right Angle Boots- Part Marking, Raised Lettering

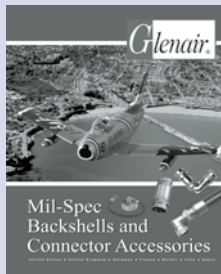


Dimensions in inches (millimeters) and are subject to change without notice.

SHRINK BOOT ADAPTER SELECTION GUIDE

Shrink Boot Adapters

Choose from the industry's largest offering of shrink boot adapters. Ordering information can be found in the Glenair *Circular Connector Backshells and Accessories* catalog. Composite adapters can be found in our *Composite Thermoplastic Connectors and Accessories* catalog. For mil spec versions, refer to *Mil-Spec Backshells and Connector Accessories* catalog.



Series 310 Shrink Boot Adapters

Series 310 Shrink Boot Adapters for unshielded cables. Available with spin coupling or direct coupling, these adapters fit all types of circular connectors.



Series 311 Lamp-Base Thread Adapters

Series 311 adapters for shielded cable. Captivate cable braid under lamp-base threaded nut.



Series 319 Shield Sock Adapters

Series 319 adapters are supplied with tinned copper shield braid crimped to adapter.



Series 44 Adapters

Series 44 adapters for shielded cable. Attach cable braid to adapter with **BAND-IT**® strap.



Series 310 and 440 Composite Adapters

Lightweight, corrosion-resistant composite adapters for shielded or unshielded cable.

Dimensions in inches (millimeters) and are subject to change without notice.

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E-Mail: sales@glenair.com

Rev. 19-JUNE-2009

Series 77 Shrink Boots Shrink Boot Adapter Selection Guide



Heat-Shrink Boots

	Shrink Boot Adapter Type										Material	Coupling	Profile of Angled Parts			Cable Routing	Connector Series				
	Lamp-Base Thread Adapter (EMI)	Micro-Banding Adapter (EMI)	Standard Banding Adapter (EMI)	Banding Adapter with Qwik-Ty (EMI)	Shield Sock (EMI)	Tinel-Lock® Ring Adapter (EMI)	Standard Shrink Boot Adapter	Metal	Composite Thermoplastic	Direct Coupling			Rotatable Coupling	Self-Locking Rotatable Coupling	Standard Profile			Low Profile	Ultra-Low Profile	Full Radius Profile	Split Shell
310-001																					A, F, G, H, J, L, S
310-006																					A, F, H, L, S
310-017																					F
310-034																					A, B, C, D, E, F, G, H, J, K, L, S
310-045																					A, F, H
311-001																					A, F, H, J, L, S
311-002																					A, B, C, D, E, F, G, H, J, K, L, S
311-019																					A, F, H
311-039																					A, F, H, L, S
311-063																					A, F, H
319-001																					A, F, H, L, S
319-043																					A, B, C, D, E, F, G, H, J, K, L, S
319-044																					A, F, H, L, S
319-134																					F, H
319-136																					A, F, H
440-030																					A, F, H, L, S
440-031																					A, B, C, D, E, F, G, H, J, K, L, S
440-069																					A, F, H, L
440-084																					A, F, H, L, S
440-085																					A, B, C, D, E, F, G, H, J, K, L, S
440-086																					A, F, H, L, S
440-143																					F, H
440-144																					F, H
447-325																					A, F, L, H, G, U
447-326																					A, F, L, H, G, U
440-327																					A, F, L, H, G, U
M85049/60																					A
M85049/62																					F
M85049/69																					H
M85049/82																					A
M85049/83																					A
M85049/84																					A
M85049/85																					F
M85049/86																					F
M85049/87																					F
M85049/88																					H
M85049/89																					H
M85049/90																					H

Dimensions in inches (millimeters) and are subject to change without notice.

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About User-Installed Epoxy

Epoxy adhesive provides superior bond strength, higher temperature range and better chemical resistance compared to hot melt adhesive. Although boots are available with type R one-part epoxy pre-coating, user-installed two part epoxy can provide a better alternative. Boot installation time is reduced and the installation process is easier. Pre-coated boots require additional care to install because the boot must be heated sufficiently to activate the epoxy, at the risk of overheating the assembly. User-installed epoxy has a four hour pot life, and only a small amount is necessary, so a single 50 ml duo syringe can coat many boots. The duo syringe can be re-capped for re-use. Inexpensive mixing nozzles must be discarded after each use.

Two Part Epoxy



High performance flexible two part thermoset epoxy provides high strength flexible bond from -55° to 150°C. 50 ml duo syringe fits standard dispensing guns. Use with square green mixing nozzle sold separately. 12 hour cure time at 20°C, 1 hour at 85°C, 30 minutes at 150°C. Apply to inside of boot with wooden spatula. 18 month shelf life.

Part Number
779-001

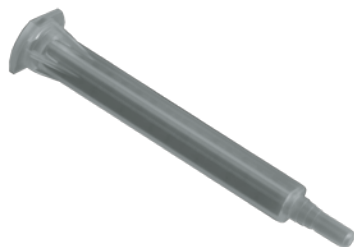
Epoxy Dispensing Gun



Twin push-rod 1:1 ratio epoxy dispensing gun for use with duo syringe epoxy and mixing nozzle sold separately. Durable heavy-duty plastic. Gun type hand grip with ratcheting trigger to advance push-rods.

Part Number
779-002

Epoxy Mixing Nozzle



1:1 ratio mixing nozzle attaches to duo syringe with 1/2 turn and locks into place. Nozzle provides consistent mixing of resin and hardener. Kit consists of (12) nozzles.

Part Number	Package Size
779-003	12

GENERAL INSTALLATION GUIDES FOR GLENAIR HEAT SHRINK BOOTS

METHODS FOR SHRINKING PARTS

These application guides are to support operators who have been trained in the installation of heat shrinkable products, the use of adhesives and product evaluation. Operators will have been made aware of all health and safety issues and is aware of the relevant MSDSs for heat shrink materials, specified adhesives and cleaning materials. **Material Safety Data Sheets (MSDS) are available at www.glenair.com/compliance.**

CAUTION

The use of heat shrinkable products entails the potential exposure of people to heat, solvents and gases. Every precaution is to be taken against harmful effects by the use of protective gloves, safety glasses and good ventilation. All local health and safety regulations should be adhered to and operators should follow designated safe working practices. The use of protective gloves and barrier creams are recommended when using solvents and adhesives. Repeated skin contact should be avoided and care should be taken to wear safety glasses when handling these materials. Attention should be taken of the recommendations of the relevant MSDS sheets for the materials being used.

APPLICATION EQUIPMENT

Heat Source

A suitable Leister or Steinel hot air gun is recommended. However, other heat guns may be used but these must be able to deliver hot air at the temperatures recommended in these installation guides. Reflectors can assist in the process of recovering parts. Always ensure the air vent on the rear of the hot air gun is open and free of dust and or other materials. Always allow the hot air gun to reach the required temperature and to stabilise before starting to shrink parts. It is recommended that the Heat Gun is calibrated daily by the use of a thermocouple positioned 25mm from the end of the nozzle.

CAUTION

The surfaces of the nozzles and reflectors reach high temperatures and will cause burns if touched. Great care should be taken when handling these tools especially after use since they take a considerable time to cool.

Cleaning Materials

100 grit Emery Cloth is recommended for cleaning and abrading surfaces to be adhered to. Isopropyl alcohol (IPA) is recommended for degreasing either as a liquid or an impregnated tissue. (Note safety issues on the use of solvents already documented in this guide.)

Dimensions in inches (millimeters) and are subject to change without notice.

PROCEDURE

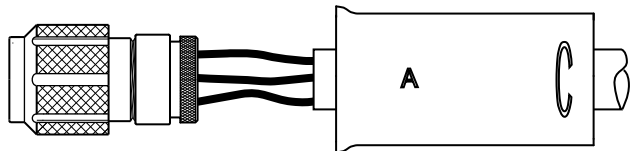
The following general instructions are applicable to all Glenair heatshrink boots. Specific instructions for surface preparation, the use of adhesive and specific conditions for each molding material are given in the relevant sections following these general instructions.

APPLICATION NOTE

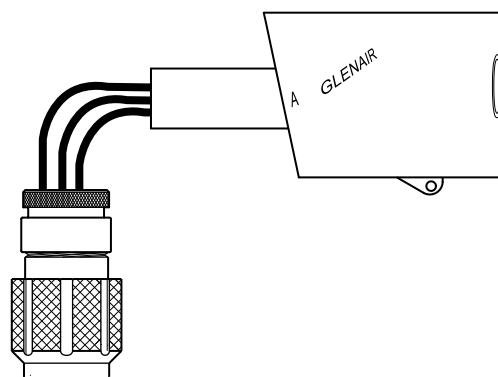
When preheating of a connector or adaptor is required because of size then care should be taken not to damage any insulation or plastic material on either the connector or the wire insulation. Heat should only be applied to metal areas. **DO NOT PREHEAT COMPOSITE PARTS.**

STEP 1: PLACE BOOT ON CABLE

Position the boot so that the lipped "A" end is toward the adapter and the "S" end is toward the cable .



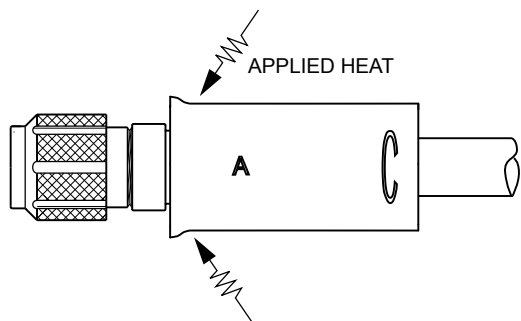
Straight



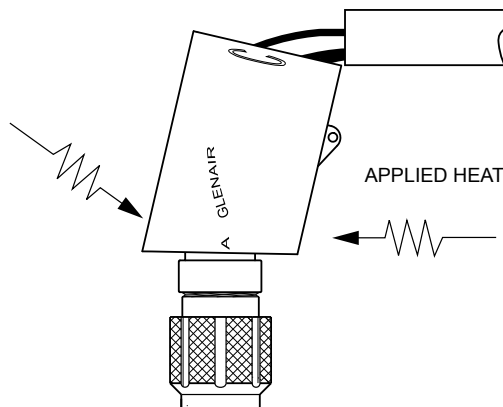
Right Angle

STEP 2: APPLY HEAT TO ADAPTER END OF BOOT

Position the boot so that the lipped "A" end will recover into the groove of the adapter. Apply heat evenly around the boot at the adapter end. Ensure the boot is fully recovered and the lip fits into the groove of the adapter. This will take approximately 30 seconds for a size 04 or 05 boot, less for smaller parts and longer for larger boots.



Straight



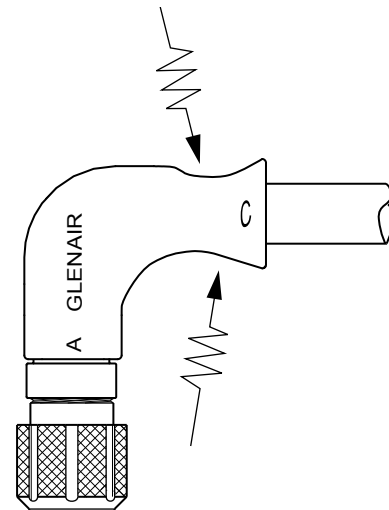
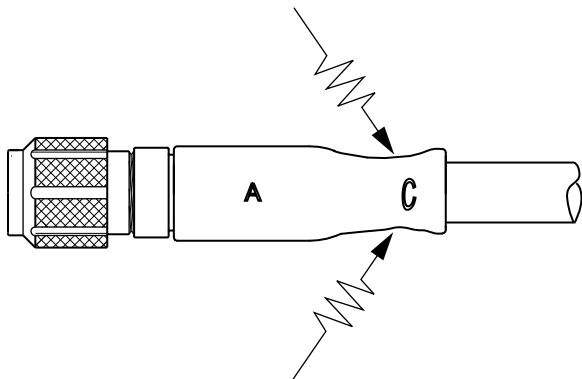
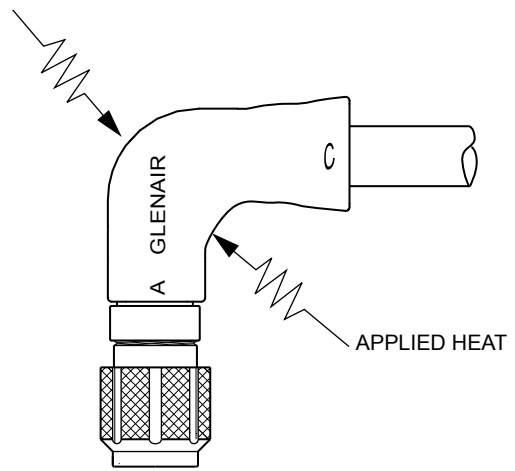
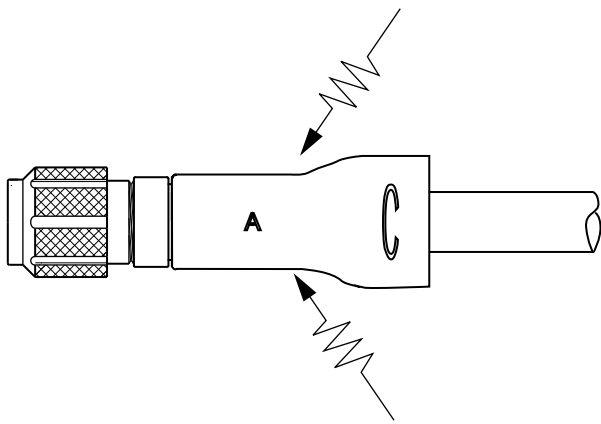
Right Angle

Dimensions in inches (millimeters) and are subject to change without notice.

STEP 3: CONTINUE APPLY HEAT TOWARD THE "C" END OF BOOT

After the "A" end is recovered, apply further post heat (typically 90-150 seconds) to ensure the adhesive flows and bonds. Refer to the specific slash sheets for these conditions. Great care must be taken to ensure the boot is not scorched or blistered or otherwise damaged during this process. The development of a high gloss is an indication that the part is reaching too high a temperature.

Continue to heat down the body of the boot towards the "C" end. Apply heat in brush-like strokes, ensuring the last part to recover is the "C" end. A feature of the Glenair boots is that, unlike other boots, they resist the tendency to fold over at the "C" end.



Straight

Right Angle

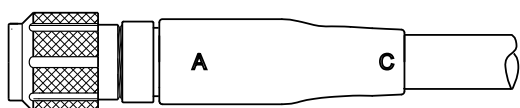
Dimensions in inches (millimeters) and are subject to change without notice.

STEP 4: AFTER BOOT IS FULLY RECOVERED, APPLY FURTHER HEAT TO "A" END

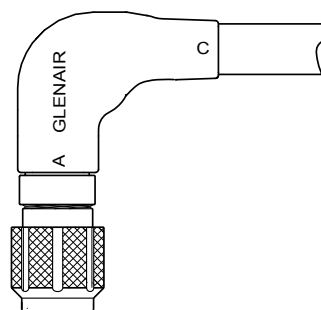
After the boot is fully recovered, apply additional heat to the "A" end to ensure adhesive melting and good adhesion. Typically this post heating will require 90-150 seconds depending on size. Refer to the specific instructions for each boot and adhesive type following this section. Care should be taken to avoid damaging the boot with excessive heat. Allow the parts to fully cool before handling.

CAUTION

The recovered parts will remain hot for some time and will be capable of burning skin if touched. Molten adhesive may also cause burns and adhere to exposed skin.



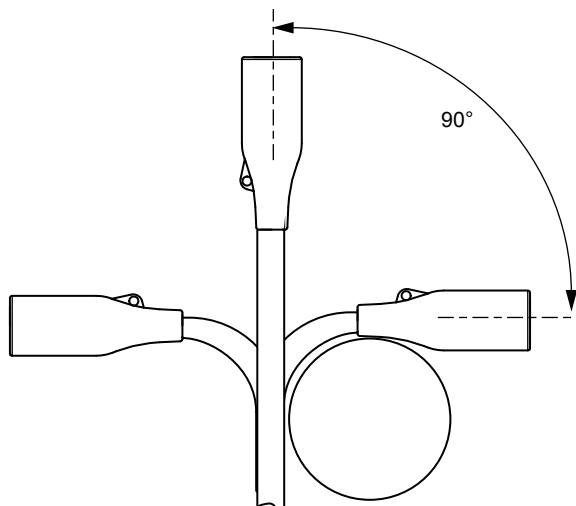
Straight



Right Angle

STEP 5: INSPECTION OF INSTALLED HEATSHRINK BOOT

1. The boot should be free of blisters, scorch marks and essentially free from distortion.
2. Any excessive adhesive should be removed.
3. The boot lip should be seated into the adapter groove, and the boot should be properly oriented (straight or right angle).
4. A small fillet of adhesive should be visible between the boot and the cable jacket.
5. The termination should be subjected to a 90° flex test in each of the four planes around a mandrel with a diameter equal to 6X the cable diameter.
Note: this is a flex test and not subjected to a tensile force. The joint should not be flexed until the boot has fully cooled and the adhesive cured for the specific times given in the following section.



Series 77 Shrink Boots Installation Instructions: 2 Part Epoxy

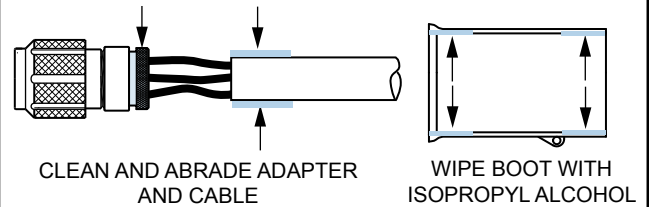


INSTALLATION OF HEATSHRINK BOOTS WITH USER-INSTALLED TWO PART EPOXY ADHESIVE

Glenair two part epoxy should be used. Part number 799-001 duo syringe, 799-XXX dispensing gun and 799-XXX mixing nozzle are recommended. Epoxy complies with BS G 198 Type U, EC 62329 and VG 95343 Part 15. Only adhesives that meet the requirements of these specifications are recommended.

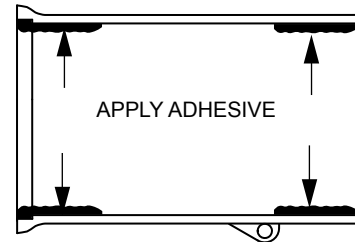
Surface Preparation

1. Prepare the inside of the boot in the areas where it will adhere to the adapter and cable jacket by degreasing with isopropyl alcohol or IPA impregnated wipes.
2. Abrade the cable jacket thoroughly with 100 grit emery cloth in the region where the part will recover. Remove loose particles with a tissue.



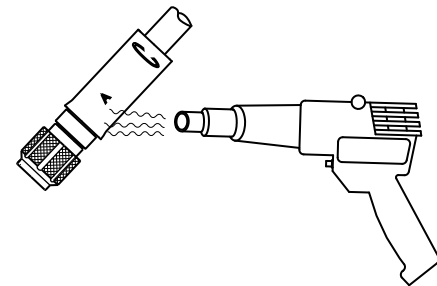
Adhesive Application

1. Prepare adhesive in accordance with the instructions supplied with the adhesive.
2. Apply adhesive to both the "A" and "C" ends of the boot. It is recommended to dispense the adhesive directly onto the surface of the boot. Smooth out the adhesive using a suitable wooden mixing stick.



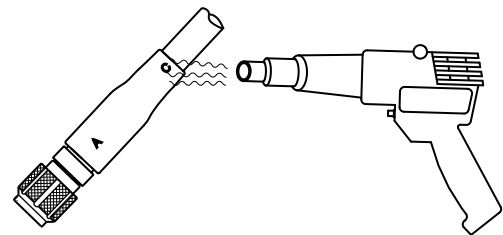
Installation

1. Set heat gun temperature to 230-250° C, measured at 25mm (1") from the nozzle exit.
2. Allow the heat gun 2 minutes to stabilize.
3. Recover boot in accordance with the general installation procedures.



Post Installation

1. Remove any excess adhesive using a dry tissue.
2. Apply a few seconds of additional heat to the "C" end to force a small amount of adhesive to flow and form a fillet between the boot and cable jacket. If necessary smooth fillet with a wooden mixing stick.



Curing Schedule

12 hours at room temperature, 2 hours at 70°C, 1 hour at 85°C, 30 minutes at 150°C.

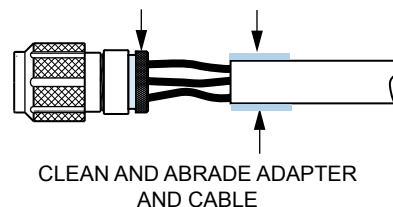
Dimensions in inches (millimeters) and are subject to change without notice.

INSTALLATION OF HEATSHRINK BOOTS WITH TYPE R PRE-COATED EPOXY

The following instructions apply to heatshrink boots with Type 1 High Performance material and type R one part thermoset epoxy. These boots are pre-coated at the factory.

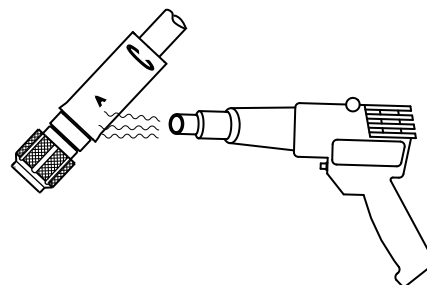
Surface Preparation

1. No preparation of the heatshrink boot is required.
2. Degrease the adapter using isopropyl alcohol or IPA impregnated wipes.
2. Abrade the cable jacket thoroughly with 100 grit emery cloth in the region where the part will recover. Remove loose particles with a tissue.



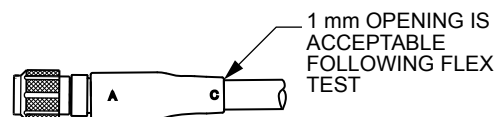
Installation

1. Set heat gun temperature to 230-250° C, measured at 25mm (1") from the nozzle exit.
2. Allow the heat gun 2 minutes to stabilize.
3. Recover boot in accordance with the general installation procedures, except as follows:
 - Do not apply hot air directly onto the adhesive lining of the boot as this may cause premature curing of the epoxy.
 - After the boot has been recovered remove any excess adhesive with a tissue.
 - Apply a post heat period of 2 minutes to both the "A" and "C" end to ensure full cure of the adhesive.



Post Installation and Inspection

1. Allow the part two hours before the inspection stage; however, once the part has cooled the harness can be handled with care.
2. Joints should be inspected per the General Installation Guide.
3. When inspecting Type 1 Boots with Type R epoxy pre-coat, it is acceptable to see a slight opening on the extreme edge of the cable to a maximum of 1mm (.040").



Dimensions in inches (millimeters) and are subject to change without notice.

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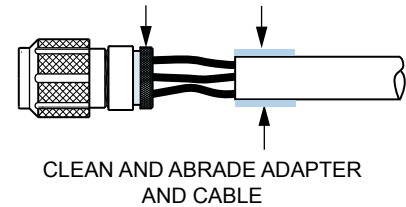
Rev. 19-JUNE-2009

INSTALLATION OF HEATSHRINK BOOTS WITH TYPE W1 HOT MELT ADHESIVE

The following instructions apply to heatshrink boots with Type 1 High Performance material or Type 2 Low Smoke/Zero Halogen material and type W1 high temperature hot melt adhesive. These boots are pre-coated at the factory.

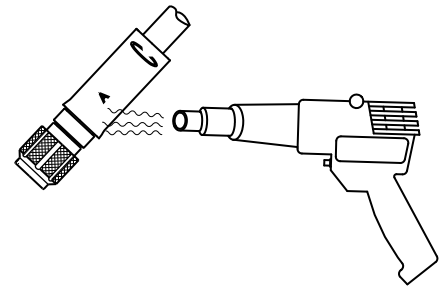
Surface Preparation

1. No preparation of the heatshrink boot is required.
2. Degrease the adapter using isopropyl alcohol or IPA impregnated wipes.
2. Abrade the cable jacket thoroughly with 100 grit emery cloth in the region where the part will recover. Remove loose particles with a tissue.



Installation

1. Set heat gun temperature to 230-250° C, measured at 25mm (1") from the nozzle exit.
2. Allow the heat gun 2 minutes to stabilize.
3. Recover boot in accordance with the general installation procedures, except as follows:
 - After the boot has been recovered remove any excess adhesive with a tissue.
 - Apply a post heat period of 2 minutes to both the "A" and "C" end to ensure full flow and adhesion of the adhesive. A flow of adhesive around the "C" cable end should be evident.



Post Installation and Inspection

1. Allow the part two hours before the inspection stage; however, once the part has cooled the harness can be handled with care.
2. Joints should be inspected per the General Installation Guide.

Dimensions in inches (millimeters) and are subject to change without notice.

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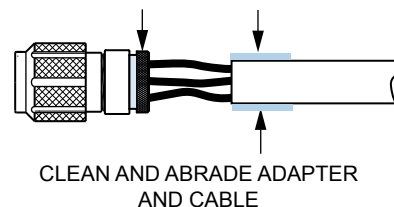
Rev. 19-JUNE-2009

INSTALLATION OF HEATSHRINK BOOTS WITH TYPE W2 HOT MELT ADHESIVE

The following instructions apply to heatshrink boots with Type 3 flexible polyolefin material and type W2 hot melt adhesive. These boots are pre-coated at the factory.

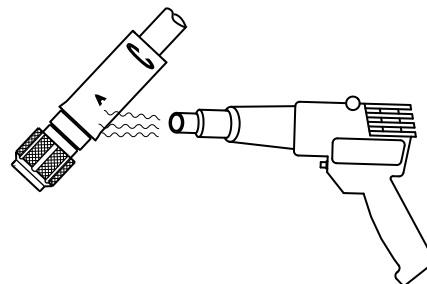
Surface Preparation

1. No preparation of the heatshrink boot is required.
2. Degrease the adapter using isopropyl alcohol or IPA impregnated wipes.
2. Abrade the cable jacket thoroughly with 100 grit emery cloth in the region where the part will recover. Remove loose particles with a tissue.



Installation

1. Set heat gun temperature to 200-220° C, measured at 25mm (1") from the nozzle exit.
2. Allow the heat gun 2 minutes to stabilize.
3. Recover boot in accordance with the general installation procedures, except as follows:
 - After the boot has been recovered remove any excess adhesive with a tissue.
 - Apply a post heat period of 2 minutes to both the "A" and "C" end to ensure full flow and adhesion of the adhesive. A flow of adhesive around the "C" cable end should be evident.



Post Installation and Inspection

1. Allow the part two hours before the inspection stage; however, once the part has cooled the harness can be handled with care.
2. Joints should be inspected per the General Installation Guide.

Dimensions in inches (millimeters) and are subject to change without notice.

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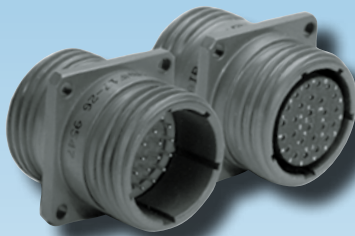
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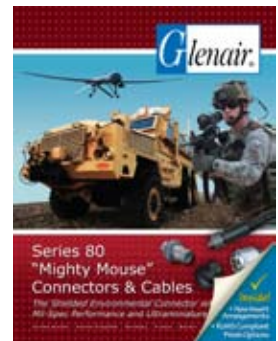
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