

Shrink Boots – Straight and Right Angle for Series 811 Connectors



Protect Your Cable Harness with heat-shrinkable boots. These easy-to-use boots provide excellent electrical, mechanical and environmental protection. Heating the boot causes the boot to shrink onto the connector and cable. An optional adhesive lining bonds the boot to the connector and cable and fills small gaps for a complete seal. Choose straight cable exit or right angle exit. These lipped boots attach directly to Series 811 Mighty Mouse HD connectors with integral band platform. After shrinking, the boot lip locks into groove. 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.

Material Selection Guide

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

Type 1 High performance Elastomer

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.

Type 2 Zero halogen

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. These boots provide strain relief and environmental protection to connector/cable transitions. Temperature rating -30° to +125° C. Black color.

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



Series 811 Mighty Mouse High Density (HD) Shrink Boots Boot Material Properties

Adhesive Lined Boot Material Properties

Heat-shrink boots are not watertight unless equipped with factory-installed or user-installed adhesives. When heat is applied to the boot, the adhesive melts and fixes the boot to the adapter and cable jacket to provide the necessary sealing as well as mechanical strain-relief. Hot melt thermoplastic polyamide adhesive is compatible with most cable jackets, economical and easy to install.

Shrink Boot Typical Material Properties

Property	Type 1 High Performance Elastomer	Type 2 Zero Halogen Polyolefin
Flexibility	Semi-rigid	Semi-flexible
Operating Temperature Range	-75°C to +150°C	-30°C to +135°C
Shrink Temperature (min.)	135°C	135°C
Tensile Strength (psi)	1700	1100
Elongation (% min.)	400	250
Long Term Heat Aging	3000 hrs, 150°C	3000 hrs, 135°C
Heat Shock	4 hrs, 215°C	4 hrs, 215°C
Heat Aging	168 hrs, 160°C	168 hrs, 160°C
Dielectric Strength (V/mil)	300	380
Volume Resistivity (ohms-cm)	10 ¹³	10 ¹²
Water Absorption (%)	0.5	0.5
Flammability	Burn Time <15 sec Burn Length <25mm	Burn Time <15 sec Burn Length <25mm
RoHS Compliant	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
Lubricating Oil	Very good	Good
Hydraulic Fluid	Very Good	Good
Aviation Fuel	Very Good	Good
Gasoline	Very Good	Fair
De-Icing Fluid	Excellent	Very Good
Automotive Diesel	Good	Fair

W1 Adhesive Properties

Attribute	W1 High Temperature Hot Melt Adhesive
Boot Material Compatibility	Type 1, 2, 5, 6 and 7
Continuous Operating Temp.	-55° to +125°C
Resistance to Fuels, Oils & Fluids	Good
Low Toxicity, Zero Halogen	Yes

Material Color Options for Type 1 High Performance Elastomer Only
Add Optional Color Mod Code to End of Any Type 1 Material Part Number

Mod Code	Color	Similar to (Reference)	Mod Code	Color	Similar to (Reference)
632 B	Blue	PANTONE 3005U	632 R	Red	PANTONE 1797U
632 E	Grey	FED-STD-595; #36270	632 T	Tan	FED-STD-595; #33446
632 G	Green	PANTONE 355U	632 W	White	FED-STD-595; #37875
632 P	Purple	FED-STD-595; #37100	632 Y	Yellow	PANTONE YELLOW U
632 O	Orange	FED-STD-595; #32300	Standard	Black	FED-STD-595; #37038

Series 811 Mighty Mouse High Density (HD)
Shrink Boots
809S060 and 809A060



Lipped Straight Shrink Boots – Type I High Performance Elastomer

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



Boot Size	Shell Size	Part Number
	Series 811 Mighty Mouse HD	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
1	5	809S060-1
2	6, 7	809S060-2
3	8, 9	809S060-3

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

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



Boot Size	Shell Size	Part Number
	Series 811 Mighty Mouse HD	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
1	5	809S060-1H
2	6, 7	809S060-2H
3	8, 9	809S060-3H

Lipped Right Angle Boots- Type I High Performance Elastomer

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



Boot Size	Shell Size	Part Number
	Series 811 Mighty Mouse HD	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
1*	5	809A060-1
2	6, 7	809A060-2
3	8, 9	809A060-3

* Size 1 right angle boot does not have lip. See drawing on following page.

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

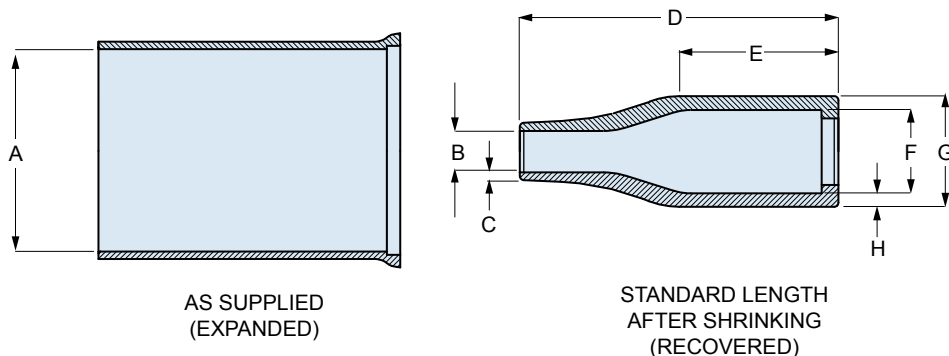
- Low Smoke, Zero Halogen
- Meets U.S. and E.U. toxicity requirements.



Boot Size	Shell Size	Part Number
	Series 811 Mighty Mouse HD	Pre-Coated with W1 Hi-Temp Hot-Melt Adhesive
1*	5	809A060-1H
2	6, 7	809A060-2H
3	8, 9	809A060-3H

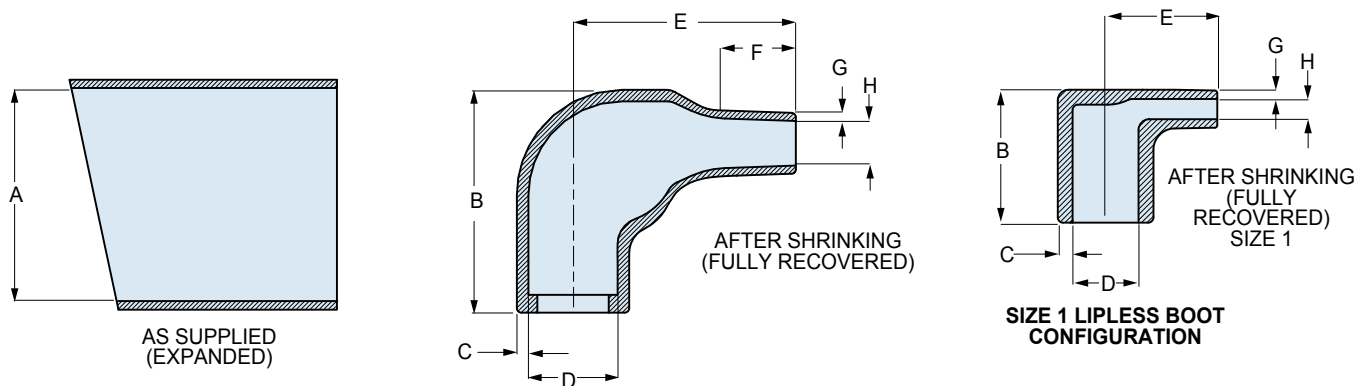
* Size 1 right angle boot does not have lip. See drawing on following page.

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.
1	.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
2	.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
3	.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

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.
1	.354	9.0	.492	12.5	.039	1.0	.236	6.0	.413	10.5	NA	NA	.028	0.7	.079	2.0
2	.669	17.0	.787	20.0	.051	1.3	.315	8.0	.787	20.0	.276	7.0	.028	0.7	.138	3.5
3	.945	24.0	.984	25.0	.063	1.6	.394	10.0	.984	25.0	.394	10.0	.035	0.9	.197	5.0

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