

“Stay Connected” with



Strain Relief Bushings

a PennEngineering® Company



Heyco® Original Strain Relief Bushings

Straight-Thru for Round Cables

.375" (9,5 mm) to .500" (12,7 mm) Mounting Holes

- **Protects the lifeline of your electric/electronic products** by absorbing the forces of pull, push, and twist that maybe exerted on the flexible power cord.
- Securely anchors, insulates, and protects cables at panel entry points.
- Sizes SR 2-Series to SR 6-Series for mounting hole diameters from .375" (9,5 mm) to .500" (12,7 mm).
- See page 4-38 for corresponding **Mounting Hole Plugs** which can be used to fill blank/unused Mounting Holes and thus allow for a single panel design for multiple applications.
- See pages 4-27 & 4-28 for SR assembly tools.
- **See schematic on page 4-20.**
- For Double D Mounting Hole Punches, see page 4-30.



WILL FIT THESE CABLES				PANEL DIMENSIONS						PART NO.	DESCRIPTION	PART DIM.		Mounting Hole Plug PART NO.	
UL Type	AWG/Conductors	Approximate Size		A Mounting Hole Dia.		B To Prevent Rotation		Finished Fit Panel Thickness*				Black	C BODY LENGTH		in.
		in.	mm.	in.	mm.	in.	mm.	in.	mm.						
AWM	12/1	.125-.187	3,2-4,8	.375	9,5	.330	8,4	.062	1,6	1060	SR 2M-1	.406	10,3	2617	
SV & SVT	18/2	.220-.245	5,6-6,2	.500	12,7	.450	11,4	.062	1,6	1157	SR 5MN-3	.438	11,1	2491	
Same as SR 5MN-3 above except									.100	2,5	1140	SR 5M-3	.438	11,1	2491
For custom interlock cable, not UR		.250	6,4	.560	14,2	.730	18,5	.125	3,2	1487	SR 30-1A**	.672	17,1	consult Heyco	
		.265	6,7	.560	14,2	.730	18,5	.125	3,2	1490	SR 30-1B**				
SV & SVT	18/2	.250	6,4	.500	12,7	.450	11,4	.062	1,6	1150	SR 5N-4	.438	11,1	2491	
	18/3	.255	6,5	.500-.515	12,7-13,1										
HPD	18/2	.270	6,9	.500	12,7	.450	11,4	.062	1,6	1150	SR 5N-4	.438	11,1	2491	
	16/2	.290	7,4	.500-.515	12,7-13,1										
SJT	18/2	.300	7,6	.531	13,5	.450	11,4	.062	1,6	1150	SR 5N-4	.438	11,1	2491	
Same as SR 5N-4 above except															.100
									.156	4,0	1154	SR 5L-1	.438	11,1	consult Heyco
SV & SVT	18/2	.255	6,5	.500	12,7	.450	11,4	.100	2,5	1137	SR 5P3-4	.438	11,1	2491	
	18/3	.270	6,9												
HPD	18/2	.290	7,4	.500	12,7	.465	11,8	.090	2,3	1184	SR 6W-1	.438	11,1	2491	
SJ, SJT & SJO	18/2	.300	7,6												
SPT-3	16/2														

Standard color black. Consult Heyco for white and other colors.

*Maximum Panel Thickness. Part has additional clearance. Consult Heyco for your Custom Finished Fit Panel Thickness.

**Use Elongated Mounting Hole.

Quick Specs

Material
Certifications

Nylon 6/6



Recognized under the Component Program of Underwriters' Laboratories File E15331



Certified by the Canadian Standards Association File 8919

Flammability Rating
Temperature Range

94V-2

-.04°F (-18°C) to 221°F (105°C)



How to Choose a Heyco® Strain Relief - *and Make the Right Choice:*

To specify a Strain Relief and get the best fit, ask yourself the following 4 questions:

1. Is my wire or wire harness Round or Flat?

Most Heyco Strain Relief tabular charts are segregated into For Round Cables and For Flat Cables.

2. What is my wire or wire harness Diameter or Dimensions?

Heyco Strain Relief charts are typically sequenced by Wire Size / Mounting Hole Size.

3. What is my panel Thickness?

A. Lockit Strain Reliefs - Multiple Locking Step Fingers provide a Finished Fit across a wide spectrum of Panel Thicknesses

B. Original Strain Reliefs - the Maximum Panel Thickness provides the best Finished Fit.

4. What Functionality and Assembly method do I need?

Heyco Strain Relief tabular charts are segregated by Functionality and ease of Assembly.

For The Ultimate in Snap-in Strain Relief Protection:

A. Liquid Tight Snap-in Strain Relief Bushings

Page

4-1

B. Snap-in Cordgrip Strain Reliefs – Straight-thru

4-2

Snap-in Cordgrip Strain Reliefs – Pigtail

4-2

C. Lockit™ Strain Reliefs - Snap-onto-cable Pre-Assemble by Hand Tool or Semi-Automatic Equipment

For Faster Final Assembly - Semi-Automated Equipment Available

4-5 thru 4-16

1. ST Lockit Strain Reliefs - Straight-thru for Rectangular Mounting Holes

4-5 thru 4-6

2. RDD Lockit Strain Reliefs - for Double D Mounting Holes

a. 35lb. Pull Test

Straight-thru

4-7 thru 4-11

b. 35lb. Pull with Maximum Flex-protection

Pigtail

4-12

c. 35lb. Pull with 90 degree exit from Panel

Right Angle

4-13 thru 4-14

3. Specialty Strain Reliefs for Multiple Conductors, Split Panels

4-31 thru 4-32

4. Universal and Romex® Strain Reliefs - widest range, snap into panel

4-3

5. Removable Snap-in Ratcheting Strain Reliefs - widest range, snap into panel

4-4

6. Mounting Hole Plugs - Standardize Panel Design!

4-38

D. Original Strain Reliefs - Assemble by Air Tool or Hand Pliers

4-27 thru 4-29

a. 35lb. Pull Test

Straight-thru

4-17 thru 4-21

b. 35lb. Pull with minimum Flex-protection

Internal Radii

4-22

c. 35lb. Pull with Flex-protection

Bell-Mouth

4-23

d. 35lb. Pull with maximum Flex-protection

Pigtail

4-24

e. 35lb. Pull with 90 degree exit from Panel

Right Angle

4-25 thru 4-26

f. In-line Lampcord Strain Relief

Replaces UL Knot

4-33

g. European Requirements

CEE

4-34

h. Metal Strain Reliefs and Accessories

4-30, 4-37

i. Romex Nylon Snap-in Strain Relief Box Connectors

Clamping Connectors

4-35

j. Brass Clamping Strain Relief Box Connectors

Clamping Connectors

4-35

k. Zinc Die-Cast Box Connectors

Box Connectors

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For a quick and easy "one screen summary," visit our Strain Relief Selector Guide web app at www.Heyco.com

"Stay Connected" with



Strain Relief Bushings

a PennEngineering® Company

Heyco® Original Strain Relief Bushings

Straight-Thru for Flat Cables

.560" (14,2 mm) to .875" (22,2 mm) Mounting Holes



UL Type	WILL FIT THESE CABLES				PANEL DIMENSIONS						PART NO.	DESCRIPTION	PART DIM.		Mounting Hole Plug PART NO.
	AWG/Conductors	Approximate Size		A Mounting Hole Dia.		B To Prevent Rotation		Finished Fit Panel Thickness*		C BODY LENGTH					
		in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.			mm.		
SPT-2	18/3	.15 x .40	3,8 x 10,2	.562	14,3	.530	13,5	.125	3,2	1174	SR 5W-1	.609	15,5	2494	
	16/3	.16 x .41	4,1 x 10,4												
HPN	16/2	.16 x .37	4,1 x 9,4	.562	14,3	.530	13,5	.125	3,2	1174	SR 5W-1	.609	15,5	2494	
	16/3	.16 x .42	4,1 x 10,5												
SPT-3	18/2	.19 x .35	4,8 x 8,9	.562	14,3	.530	13,5	.062	1,6	1170	SR 5KN-4	.609	15,5	2494	
16/2	.20 x .37	5,1 x 9,4													
SPT-2 & HPN	16/3	.16 x .41	4,1 x 10,4	.562	14,3	.530	13,5	.062	1,6	1170	SR 5KN-4	.609	15,5	2494	
Same as SR 5KN-4 above except															
SPT-2	18/3	.15 x .40	3,8 x 10,2	.562	14,2	.730	18,5	.125	3,2	1484	SR 30-1**	.672	17,1	consult Heyco	
16/3	.16 x .41	4,1 x 10,4													
SPT-3	18/2	.19 x .35	4,8 x 8,9	.562	14,2	.730	18,5	.125	3,2	1484	SR 30-1**	.672	17,1	consult Heyco	
	18/3	.19 x .39	4,8 x 9,9												
	16/2	.20 x .37	5,1 x 9,4												
	16/3	.20 x .43	5,1 x 10,9												
SPT-2	18/3	.15 x .40	3,0 x 7,6	.625	15,9	.550	14,0	.062	1,6	1160	SR 6N4-4	.578	14,7	2497	
16/3	.16 x .41	4,1 x 10,4													
Same as SR 6N4-4 above except															
SPT-3	16/2	.20 x .37	5,1 x 9,4	.750	19,0	.875	22,2	.125	3,2	1504	SR 33-1**	.781	19,8	consult Heyco	
	16/3	.20 x .43	5,1 x 10,9												
	14/2	.24 x .42	6,1 x 10,7												
	14/3	.24 x .51	6,1 x 12,9												

Fit 1/2" Electrical Knock-out Hole

SPT-3	14/2	.24 x .42	6,1 x 10,7	.875	22,2	.840	21,3	.125	3,2	1517	SR 34-2	.813	20,7	2509
	14/3	.24 x .51	6,1 x 12,9											
	12/2	.29 x .51	7,4 x 12,9											
	12/3	.29 x .65	7,4 x 16,5											
SPT-3	12/3	.32 x .65	8,1 x 16,5	.875	22,2	.835	21,2	.125	3,2	1497	SR 31-2	.812	20,6	2509

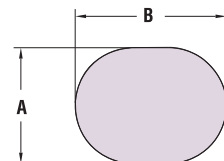
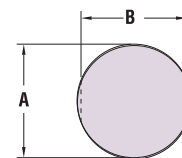
Standard color black. Consult Heyco for white and other colors.

* Maximum Panel Thickness. Part has additional clearance. Consult Heyco for your Custom Finished Fit Panel Thickness.

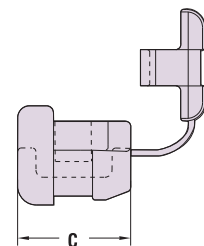
**Use Elongated Mounting Hole.

- Protects the lifeline of your electric/electronic products by absorbing the forces of pull, push, and twist that may be exerted on the flexible power cord.
- Securely anchors, insulates, and protects cables at panel entry points.
- Consult Heyco for other wire types and sizes.
- See page 4-38 for corresponding **Mounting Hole Plugs** which can be used to fill blank/unused Mounting Holes and thus allow for a single panel design for multiple applications.
- See pages 4-27 & 4-28 for SR assembly tools.
- For Double D Mounting Hole Punches, see page 4-30.

DOUBLE D MOUNTING HOLE



ELONGATED MOUNTING HOLE



Material

Nylon 6/6

Certifications



Recognized under the Component Program of Underwriters' Laboratories File E15331



Certified by the Canadian Standards Association File 8919

Flammability Rating

94V-2

Temperature Range

-.04°F (-18°C) to 221°F (105°C)

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