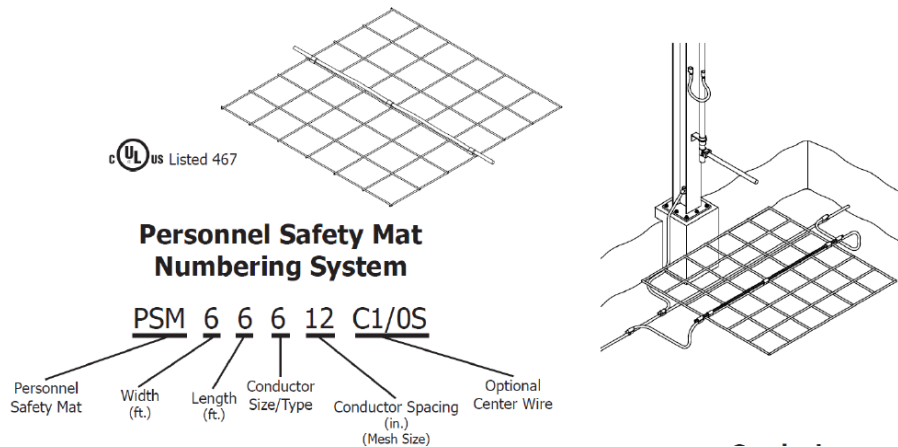


Personnel Safety Mats

Harger personnel safety mats are designed to protect against “touch potentials” under fault conditions. Listed below are standard mat configurations, however mats can be customized by utilizing the personnel safety mat numbering system. The following example is a safety mat that is 6’ wide x 6’ long made up of #6 solid copper conductor. Conductors are spaced every 12” and the mat has a 1/0 AWG solid center wire.



Standard Mat Configurations

- Mat Size: 4’ x 4’, 4’ x 6’, 6’ x 6’, 6’ x 8’
- Wire Size: #4, #6, #8 AWG Solid Conductor.
- Wire Type: Pure copper or copper clad steel (30% and 40% conductivity).
- Mesh Size: 2” square through 12” square in 2” increments.
- Center Wire: Optional. Comes with 6” overhang on both sides of the mat.

Standard Mat Sizes

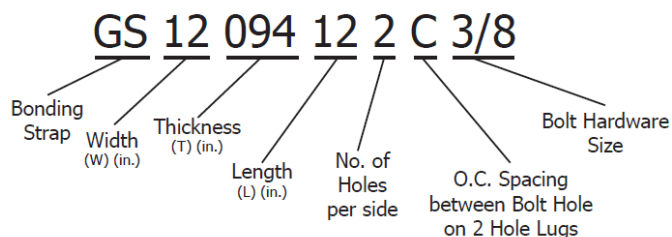
Part No.	Width (ft.)	Length (ft.)	Conductor Size/Type (AWG)	Conductor Spacing (in.)	Optional Center Wire	Approx. each wt. (lbs.)
PSM4666C1/0S	4	6	6	6	1/0 Sol.	11
PSM4644C2/0	4	6	4	4	2/0	23
PSM61066C4/0S	6	10	6	6	4/0 Sol.	26

Conductors

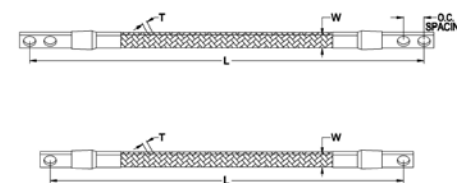
Part No.	Type
4	Solid copper
6CW4D	Copper clad 40% conductivity
6	Solid copper
6CW3D	Copper clad 30% conductivity
8	Solid copper
8CW3D	Copper clad 30% conductivity

Bonding Strap Numbering System

Bonding straps are constructed from flexible tinned copper flat braid. Available with one or two hole compression lugs. Harger offers a variety of lengths and styles. Customizing your own straps is simple with Harger's bonding strap numbering system. To design you own custom bonding strap, simply follow the steps outlined here. The following example is a 1/2" wide, 0.094" thick, 12" long bonding strap using 2 hole compression lugs with 1" spacing between 3/8" bolt holes.



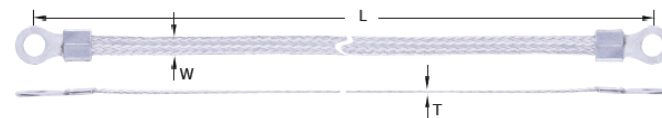
1. Width (W) of braid strap
2. Thickness (T) of braid strap
3. Length (L) of braid strap (O.C. from lug hole)
4. Specifies one or two holes per strap
5. O.C. spacing between bolt hole on 2 hole lugs
A = 5/8", B = 3/4", C = 1", D = 1-3/4"
6. Bolt hole size



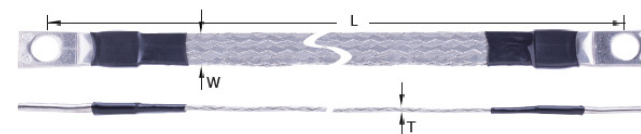
One Hole Tinned Flat Braid Copper Bonding Straps

Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS140306R13/8	1/4"	.030"	14	6"	1	3/8"	1/2	10	5
GS1403012R13/8	1/4"	.030"	14	12"	1	3/8"	1/2	10	5
GS1403024R13/8	1/4"	.030"	14	24"	1	3/8"	1/2	10	5

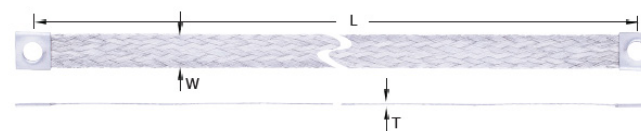
"R" indicates Ring Lug



Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS140306R13/8	1/4"	.030"	14	6"	1	3/8"	1/2	10	5
GS1403012R13/8	1/4"	.030"	14	12"	1	3/8"	1/2	10	5
GS1403024R13/8	1/4"	.030"	14	24"	1	3/8"	1/2	10	5



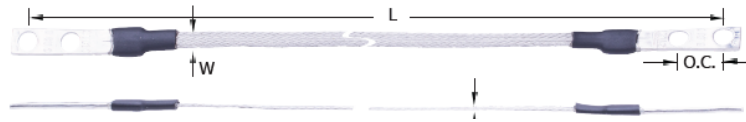
Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS5806215.188PT-MW	5/8"	.062"	8	15.2"	1	7/16"	1/4	10	2-1/2



Application Notes

- Dimensions are nominal sizes.
- Other sizes available. Contact factory for more information.

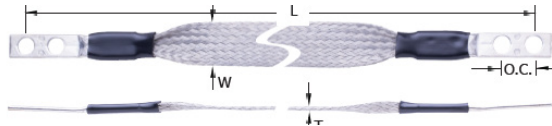
Two Hole Tinned Flat Braid Copper Bonding Straps



Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	O.C. Spacing	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS14030102A1/4	1/4"	.030"	14	10"	2	5/8"	1/4"	1/2	10	5
GS14030162A1/4	1/4"	.030"	14	16"	2	5/8"	1/4"	1/2	10	5
GS14030242A1/4	1/4"	.030"	14	24"	2	5/8"	1/4"	1/2	10	5

Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	O.C. Spacing	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS12094122A1/4	1/2"	.094"	6	12"	2	5/8"	1/4"	1/2	10	5
GS120941223C/8	1/2"	.094"	6	12"	2	1	3/8"	1/2	10	5
GS12094182A1/4	1/2"	.094"	6	18"	2	5/8"	1/4"	1/2	10	5
GS12094182C3/8	1/2"	.094"	6	18"	2	1	3/8"	1/2	10	5
GS12094242A1/4	1/2"	.094"	6	24"	2	5/8"	1/4"	1/2	10	5
GS12094242C3/8	1/2"	.094"	6	24"	2	1	3/8"	1/2	10	5

Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	O.C. Spacing	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS34062122A1/4	3/4"	.062"	6	12"	2	5/8"	1/4"	1/2	10	5
GS34062122C3/8	3/4"	.062"	6	12"	2	1	3/8"	1/2	10	5
GS34062182A1/4	3/4"	.062"	6	18"	2	5/8"	1/4"	1/2	10	5
GS34062182C3/8	3/4"	.062"	6	18"	2	1	3/8"	1/2	10	5
GS34062242A1/4	3/4"	.062"	6	24"	2	5/8"	1/4"	1/2	10	5
GS34062242C3/8	3/4"	.062"	6	24"	2	1	3/8"	1/2	10	5
GS34062302A1/4	3/4"	.062"	6	30"	2	5/8"	1/4"	1/2	10	5
GS34062302C3/8	3/4"	.062"	6	20"	2	1	3/8"	1/2	10	5

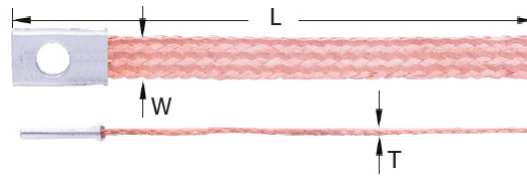


Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes per side	O.C. Spacing	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS12094122A1/4	1/2"	.094"	6	12"	2	5/8"	1/4"	1/2	10	5
GS120941223C/8	1/2"	.094"	6	12"	2	1	3/8"	1/2	10	5
GS12094182A1/4	1/2"	.094"	6	18"	2	5/8"	1/4"	1/2	10	5
GS12094182C3/8	1/2"	.094"	6	18"	2	1	3/8"	1/2	10	5
GS12094242A1/4	1/2"	.094"	6	24"	2	5/8"	1/4"	1/2	10	5
GS12094242C3/8	1/2"	.094"	6	24"	2	1	3/8"	1/2	10	5

Application Notes

- Dimensions are nominal sizes.
- Other sizes available. Contact factory for more information.

One Hole Bare Copper Braid Bonding Strap



Part No.	Braid Width	Braid Thickness	Gauge Equivalent (AWG)	Length	No. of holes	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS58101TIE	7/16"	.070"	7	10"	1	7/16"	1/4	10	2-1/2

One Hole Bare Copper Braid Bonding Strap Kit

Part No.	Braid Width	Braid Thickness	Length	No. of holes	O.C. Spacing	Hardware Size	Approx. each wt. (lbs.)	Box Qty.	Approx. Box wt. (lbs.)
GS438070BF1014KIT	7/16"	.070"	10"	1	10-1/8"	1/4"	1/4	10	2-1/2

- Other sizes available. Contact factory for more information.
- Kit Includes:
 - (1) GS438070BF1014: copper flat braid bonding strap
 - (1) HAAJC1/2: aluminum antioxidant 1/2 oz. tube
 - (2) N420S: 1/4"-20 x1/2" stainless steel hex nut screw
 - (2) MS44S: 1/4"-20 x1/2" stainless steel machine screw
 - (2) LW4S: 1/4" stainless steel split lock washer
 - (2) SW4S: 1/4" star lock washer

