

# GOLD SERIES METAL HOSE

## INTERLOCK



**Flex-Weld, Inc.** manufactures interlock hose as a component for engineered hose assemblies or to be sold separately as bulk hose. Interlock hose is produced by spirally winding a precision slit metal strip so that the edges “interlock” to form a seamless length in a configuration, size, and type custom designed for each specific application. Packing materials can be introduced during the manufacturing process to form a leakage barrier in the interlock zone. Table I exhibits a list of the available packing materials.

The interlock hose itself can be manufactured from a variety of materials including aluminum, galvanized steel, stainless steel, Monel, Inconel, or bronze depending on the application. Consult the factory for questions concerning material compatibilities and selection.

Inside diameters range from 1/8” to 24”. End use, at these size extremes, is generally for capillary and telephone cable hose to large unloading hose for grain and sawdust, respectively.

Flexibility and weight can range from stiff to floppy, and heavy to light, depending on the required usage of the product.

Although interlock hose can be used stand-alone with it’s own welded or brazed-on fittings, it is also used as a liner for high flow velocity corrugated hose assemblies or as an outer guard for braided corrugated hose assembly external protection.

The inside of this brochure provides some examples of standard stock interlock hose configurations.

### FEATURES:

Inside  
Diameters  
From 1/8” to 24”

Variety Of  
Materials Available

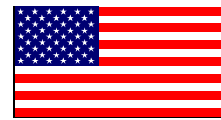
Flexibility And  
Weight Choices  
From “Stiff” To  
“Floppy”

Raw Bulk Hose Or  
Engineered  
Assemblies

Choice Of Packing  
Materials

Standard Sizes In  
Stock

Custom  
Assemblies As  
Required



**100%**  
**American Made**



# FLEX-WOUND INTERLOCKED METAL HOSE

## Light Weight Hose—Series FSS12U



.010" - .012" metal

An extremely light hose that is economical, yet durable for those gentle applications.

Extremely flexible—Highly versatile

Available in aluminum, galvanized steel, stainless steel, brass, and bronze

Hose is normally furnished unpacked, but packing may be ordered.

\*Tubing is available with various packing which will increase the inside bending diameter.

Nominal Inside Diameter (inches)	Nominal Outside Diameter (inches)	Approx. Wt.* Per 100 Ft. (pounds)	Minimum* Bend Radius (inches)
3/16"	.281	11	3
1/4"	.375	11	3
3/8"	.500	14	4
1/2"	.625	16	6
5/8"	.750	18	6-1/2
3/4"	.875	20	6-1/2
7/8"	1.000	24	7
1"	1.130	28	7-1/2
1-1/8"	1.260	32	8-1/2
1-1/4"	1.380	36	9-1/2
1-3/8"	1.510	38	10
1-1/2"	1.650	48	11
1-5/8"	1.780	52	12
1-3/4"	1.900	58	13
1-7/8"	2.030	60	14
2"	2.160	66	15
2-1/8"	2.280	72	15-1/2
2-1/4"	2.410	76	16-1/2
2-3/8"	2.530	81	17-1/2
2-1/2"	2.660	85	18-1/2
2-3/4"	2.910	93	20
2-7/8"	3.030	97	21
3"	3.160	102	22
3-1/4"	3.410	110	24
3-1/2"	3.660	118	26
3-3/4"	3.910	127	27
4"	4.160	135	29
4-1/2"	4.660	152	33
5"	5.170	168	37
6"	6.170	200	44
7"	7.180		45

1-800-323-6893



# FLEX-WOUND INTERLOCKED METAL HOSE

## Heavy Weight Hose—Series FSS20U



.017" - .020" metal

A more durable weight hose for those more rugged and/or severe applications.

Generally used for automotive applications

Available in aluminum, galvanized steel, stainless steel, brass, and bronze

Hose is normally furnished unpacked, but packing may be ordered.

Nominal Inside Diameter (inches)	Nominal Outside Diameter (inches)	Approx. Wt. * Per 100 Ft. (pounds)
1-1/4"	1-1/2"	.80
1-1/2"	1-3/4"	.95
1-3/4"	2"	1.10
2"	2-1/4"	1.20
2-1/4"	2-1/2"	1.40
2-1/2"	2-2/4"	1.50
2-3/4"	3"	1.65
3"	3-3/4"	1.80
3-1/2"	3-3/4"	2.00
4"	4-1/4"	2.25
4-1/2"	4-3/4"	2.65
5"	5-1/4"	2.90
6"	6-1/4"	3.60
7"	7-1/4"	4.05
8"	8-1/4"	4.50
9"	9-1/4"	5.25
10"	10-1/4"	6.00

## Square Locked Flexible Hose—Series FG12UEC

Unpacked, square locked extra flexible conduit

Greater strength and flexibility are achieved with square locked construction

Available with cotton cord or heat resistant packing

Packing will increase the weight and inside bending diameters

Available in galvanized and stainless steels. Special metals available upon request

Nominal Inside Diameter (inches)	Nominal Outside Diameter (inches)	Inside Bending Diameter	Approx. Wt. * Per 100 Ft. (pounds)
1/8"	13/64"	1"	3
5/32"	11/32"	1-1/2"	3-1/2
3/16"	9/32"	1-1/2"	4-1/2
1/4"	23/64"	2"	6
9/32"	25/64"	2-1/4"	6-1/2
5/16"	27/64"	2-1/4"	7
11/32"	29/64"	2-1/2"	7-1/2
3/8"	1/2"	2-1/2"	8
7/16"	9/16"	2-1/2"	9
1/2"	5/8"	3"	10
9/16"	11/16"	3-1/2"	12
5/8"	3/4"	4"	15
3/4"	31/32"	4"	18

[www.flex-weld.com](http://www.flex-weld.com)

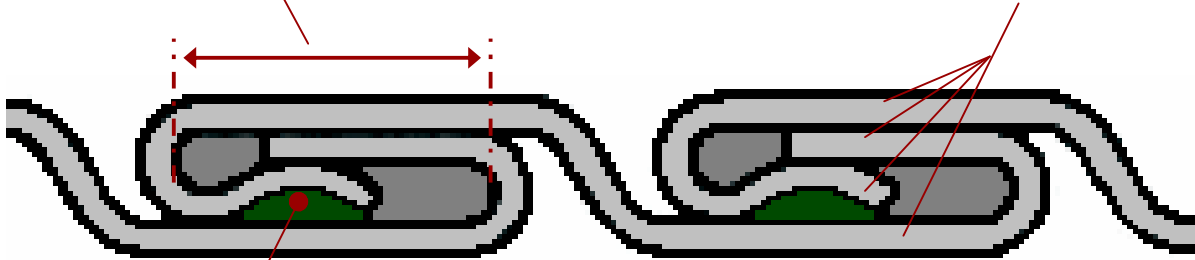


# FLEX-WOUND INTERLOCKED METAL HOSE

Catalog# GSI/0104

Flexibility is achieved through sliding action between joining surfaces

Continuous interlocked joint with durable, four-wall construction



Optional packing material for minimal pressure applications

Medium to heavy weight has optional profile construction.  
Narrow Profile—for more rigidity and higher pressure (when packed)  
Wide Profile—for more flexibility and greater axial compression and extension capability

## Typical Applications

Air Intake  
Automotive Exhaust  
Blowpipe Systems  
Cable Armor  
Chimney Liners  
Conduit  
Dust Collection  
Engine Exhaust  
Gas & Fume Exhaust  
Garage Exhaust  
Granular Materials  
Gravity Feed  
Hot Air Ducts  
Insecticides

Insulation  
Oven Exhaust  
Pneumatic Systems  
Powders  
Saw Dust Removal  
Space Heaters  
Spouts  
Sprayers  
Suction Lines  
Tank Car Unloading  
Tractor Exhaust  
Vacuum Service  
Ventilation  
Welding Fume Removal

Transfer of:  
Alfalfa  
Ashes  
Asphalt  
Borax  
Bran  
Carbon Black  
Crushed Ice  
Meal  
Pellets  
Pet Foods  
Seeds  
Slag  
Talc  
Tar, etc.

## Additional Literature

Gold Series Flexible Hose Assemblies  
Industrial Series Flexible Hose & Assemblies  
Installation Instructions—Braided Hose Assemblies