

## Whipsock Safety Sleeve-- The harder you pull, the safer you get



### Introduction:

Hose breakage or coupling broken occur sometimes, standard whip check safety cable is effective for low-pressure hoses. But for heavy duty high-pressure hoses, a good hose restrain device is the mean of life and death.

Facing this situation, we should find the best way to make high-pressure hose safety under control. To be a lucky dog, we found the best device—whipsocks safety sleeves. Whip socks, sometimes called cable socks, are a new effective way to restrain high-pressure hoses. In the event of a high-pressure hose assembly failure, ICM Industries Safety Whipsocks provide stand-by safety and minimize uncontrolled whipping

Whip socks are the best high-pressure hose restraints because of the stocking style woven steel grips the hose more securely over a larger area. As we know, abrasion and wear and tear usually take place near fittings, which may result in a rupture. If this happens within the covered area, additional safety occurs that would never occur with a standard whip check. The woven steel can also help prevent abrasion to the hose underneath.

THE HARDER YOU PULL, THE SAFER YOU GET--This results in a safe and effective way to restrain hoses. ICM Industries whip socks are made of the highest quality wires and are also available in custom lengths to fit longer hoses or to run the entire length of a hose. We also offer stainless steel options.

Whip socks are not restricted to just air hoses, but can be used on any application where high-pressure hoses are used, air, water, hydraulic, slurry, etc.

### Twin Eye Whipsock

The single ended Hose Restraint prevents personal injury in the case of a failed hose or broken coupling This type of Whipsock will secure a single end of a high pressure hose to an anchored point to prevent uncontrolled movement in the event of hose connection failure or breakage

### 4 Eye Whipsocks

4 Eye Whipsocks are designed to protect against hose splitting along the entire length of the hose. As these Whipsocks are custom made, so please remember to specify the exact distance between the shackle points and the hose diameter (external)



### Application:

- 1) In the event of a high-pressure hose assembly failure, whipsock safety cable produce standard-by safety and minimize uncontrolled whipping
- 2) Used in heavy duty, high pressure air, water, hydraulic and slurry applications
- 3) NOT designed for lifting or towing, the two anchoring points and shackles must be rated for the application

### Features:

- 1) Dual anchor points secure hose-to -hose and hose to rigid anchor points
- 2) Woven cable grips the hose securely over a large area while protecting it from everyday abrasion and wear
- 3) Can be customized for the two eyes or four eyes and can be customized for length
- 4) Be sure the anchoring points are rated for application
- 5) Twin Eye Whipsock and Four-eye whipsocks are available

### Material:

- 1) Galvanized steel wire
- 2) Stainless steel is available upon request
- 3) Spiral guard to prevent cable wear caused coupling vibrations

### Construction

Wire rope: galvanized carbon steel

Ferrules: aluminum

Protective Hose Wrap: Polyethylene/ PVC







### Sizes:

From 3/8" hose up to 6" hose, larger sizes are available upon request

Size	HOSE OD (inch)	HOSE OD (mm)	Wire Dia (mm)	NUMBER OF PLYS	GRIP LENGTH (inch)	EYE LENGTH (inch)	OAL (inch)	WP PSI	AVG Breaking Strength kg	Unit Weight Kg/pc
3/8"	5/16" - 1/2"	8-14	1.2	8X3	11.8	3.1	15.7	5000	1300	0.114
1/2"	1/2" - 3/4"	14-20	1.5	8X3	17.7	3.9	21.7	3000	1300	0.114
7/8"	3/4" - 1.1/8"	20-30	2	12X2	19.7	5.5	25.2	2000	2800	0.341
1"	1.1/8" - 1.1/2"	30-40	2	12X2	27.6	6.7	34.3	1500	5500	0.455
1-1/4"	1.1/2" - 1.7/8"	40-50	2	12X2	31.5	6.7	38.2	1000	5500	0.568
1-1/2"	1.7/8" - 2.3/8"	50-60	2.5	12X2	39.4	9.8	49.2	700	9300	1.023
2"	2.3/8" - 2.3/4"	60-70	2.5	12X2	41.3	9.8	51.2	1300	9300	1.136
2-1/2"	2.3/4" - 3.3/8"	70-85	2.5	12X2	43.3	10.6	53.1	800	9300	2.386
3"	3.3/8" - 3.7/8"	85-100	3	12X2	55.1	13.4	72.4	750	12300	2.386
3-1/2"	3-7/8" - 4-3/4"	100-120	3	12x2	57.1	15	72	550	12300	2.500
4"	4.3/4" - 5.1/2"	120-140	3	16X2	70.9	15.7	86.6	550	16000	3.409
6"	5.1/2" - 7"	140-180	3	16X2	76.8	16.5	93.3	250	16000	3.636

Note: Tensile strength if measured in kilonewtons (kN), to convert to Lbs multiply kN rating by approx. 225 times, and to Kg multiple kN rating by approx 102 times.

### Installation Notice:

High pressure hose restraint designed to secure hose-to-hose and hose-to-rigid anchor points to minimize uncontrolled movement in the event of hose connection failure or separation. Note: For ease of installation it's recommended to attach prior to installing coupling assembly.

Step 1: Select the appropriate Whipsock safety sleeve based on the hose O.D. and working pressure of the hose. For shorter assemblies a custom double ended, 4-eye Whipsock, must be used. Note: Only use custom Whipsocks on the specific length and diameter it is labelled for.

Step 2: Always ensure to inspect entire Whipsock safety sleeve for frayed wire and corrosion before each use and installation. Replace immediately if damaged or worn.

Step 3: It is necessary that the hose is clean and free form oil and dirt before use.

Step 4: Compress the tail end of the Whipsock safety sleeve to open the ID, work the stocking to slide the grip down the length of the hose. Run your hands down the grip from the coupling end to the tail to smooth out any gaps or loose wires in the grip to ensure contact with the hose.

Step 5: After coupling, slide the Whipsock safety sleeve up the hose into secured position just behind the fitting, ensuring the eyes have enough length to reach the anchoring points. Avoid overlapping the stockings if Whipsock safety sleeves are on each end of the hose.

Step 6: Using a King Safety Shackle or bolt, nut & pin style clasp, rated above the breaking strength of the hose, secure the hose restraint at two horizontally opposed, rigid anchor points rated for the application.

Step 7: Slight slack in the legs is preferred. This will allow a travel distance for coupling in disconnection and greatly reduce the load applied to the hose restraint. A travel distance of up to 1" - 2" (40-50mm) is recommended.







If you are interested the whipsock safety sleeve and camlocks, please feel free to contact us. We have confidence to get your connections done. We have confidence to offer safer, repeatable and valuable solutions for your hoses and equipment. Contact with us now!

[contactus.html](#)

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