

Product Guide

# HYDRAULIC HOSE PROTECTION





# HYDRAULIC HOSE PROTECTION TO ENSURE SAFE DESIGNS

During the course of everyday operations, [hydraulic hose assemblies](#) are exposed to moisture, dirt, cuts, abrasions, crushing and UV rays. Continuous movement and rubbing against other hoses or equipment—often caused by machine vibrations—can erode hose covers, while non-compatible fluids can eat away at them if left unprotected.

And once this outer layer of protection is gone, hose reinforcement is open to even more damage and rust. Thus, it is essential that necessary precautions are taken to protect them. We strongly recommend that you request [free samples](#) of the solutions you're interested in to ensure they're exactly what you need.

## HOSE PROTECTION SLEEVES

A [protective sleeve for hydraulic hoses](#) is the last line of defense in protecting people, environment and machinery against hose bursts or leakage. They also protect hoses against abrasion.

**QUICK ASSEMBLE HOSE OR CABLE PROTECTIVE SLEEVES ARE SUITABLE FOR:**

- Use in the field where hose assemblies are already mounted
- Applications where the winding of spiral-formed products is difficult

### [BALLISTIC NYLON HYDRAULIC HOSE PROTECTION SLEEVE](#)

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- Resistant to heat, ozone and abrasion
- Contains hoses to protect operators from hose failures in close quarters
- Special hook-and-loop design closure for quick and easy bundling of hose groupings
- Easy to assemble or remove

## MINING SAFETY APPROVED SLEEVES

Essentra's line of [mining safety-approved sleeves](#) protects against:

- Hydraulic hose oil leakage
- Hose ruptures
- Hose spills

Its nylon 6 material means this sleeve is dense, yet not bulky, and provides a high degree of burst resistance and abrasion protection.

### [HOSE PROTECTION SLEEVE - MINING SAFETY APPROVED](#)

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- Excellent leakage containment - effective in reducing the concentrated stream of pinhole leaks
- Tested and approved by M.S.H.A.
- Meets FED-STD-191 test method 5309 for abrasion resistance
- Meets ASTM D6770 for abrasion resistance of textile webbing
- Meets SAE J343/ISO 3457, Burst & Leakage Protection
- Meets EN982ISO norm 833 EN 414
- UV solar protection BS EN 13758-1





## FIRE PROTECTION SLEEVES

A full line of [fire protection sleeves](#) has excellent elasticity for protecting or bundling hoses, tubes and cables in a variety of hostile environments.

The insulation properties of the outer silicone rubber and inner knitted glass fiber provide:

- Effective protection for personnel against burns from hot hoses and reduced heat energy loss
- Easy bundling of hoses that flex in the same direction; to increase safety, only bundle hoses of similar sizes and pressure rating, e.g.: bundle high-pressure hoses in one sleeve, and low-pressure hose sizes in another
- Aesthetics – more streamlined look to hydraulic hose on machinery

### FIRE PROTECTION SLEEVES

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- Protects against high temperatures, radiation heat, direct flames and liquid metal splashes
- The inner sleeve has good insulation properties with a 1,292°F (700°C ) service temperature

Also, take care to not bundle hoses too tightly and to give a proper amount of slack so fittings and hoses will not be stretched beyond their limits.

## HOSE PROTECTION WRAPS

Spiral hose wrap is offered in a variety of styles, protecting against abrasion and crushing, thus extending hose life.

Essentra's [spiral wrap](#) isn't only a hydraulic hose protector. It's also suitable for pneumatic and hydraulic hose assemblies.

- Radial cut from extruded tube, enabling high natural recovery memory and flexibility to maximize hose coverage
- Manufactured in a high-density polyethylene material
- High-abrasion resistance, anti-crushing performance and resistance to UV deterioration
- A thinner, lightweight solution with industrial strength and quality
- Available as a heavy-duty or medium-duty solution

### SPIRAL WRAP HOSE PROTECTOR – SPIRALGUARD

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- Plastic spiral hose wrap made of durable HDPE
- Hydraulic hose spiral wrap features heavy-duty, double-bevelled edge design to prevent snagging and cutting during installation
- Easy and safe to install before or after hose assembly is mounted
- Use medium-duty solution for applications where abrasion is not frequent, but protection is still needed





## SPIRAL WRAP FOR MINING AND QUARRYING

For mining and quarrying applications, users might consider a [mine-safety-approved, flame-retardant and anti-static series of spiral wrap](#) tubing that protects underground hose assemblies

It's suitable for the protection of most types of hydraulic, pneumatic and industrial hose assemblies across a wide range of industries:

- Mining, quarrying, drilling & tunnelling
- Forestry & agricultural
- Welding, manufacturing & automotive
- Marine sub-sea, offshore oil and gas construction.

### SPIRAL WRAP HOSE PROTECTORS - MINING SAFETY APPROVED

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- Exceptional anti-crushing performance
- High-abrasion resistance
- Good resistance to UV rays
- Reduces risk of industrial injury
- Suitable for wrapping single or multiple hoses
- Proven in arduous conditions
- Tested and approved by Mine Safety Laboratory, Department of Mineral Resources NSW to AS2660 FRAS Compliance (1991 International Standard: ISO6805)
- British Coal specification 182:1986

## HOSE WEAR PROTECTORS

If weight and size are an issue, but some hose still needs protection consider point-of-contact protectors, also known as [hose wear protectors](#).

These are a more economical solution when there are few single sources of hose wear. Made out of PVC, these are durable and have a high wear factor. Point-of-contact protectors are easy to assemble and remove as they are simply assembled with a cable tie.

They are used mostly on:

- Hydraulic hoses
- Fuel and oil lines
- Brake systems
- Wiring harnesses and battery cables
- Can be used with hose protection sleeves.

### HOSE WEAR PROTECTORS

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- Made of flexible PVC
- Protects hose and wire abrasion caused by points of contact wear with frames or other abrasive surfaces
- Material is very durable and has a high wear factor
- Molded grooves prevent the slipping and wear of cable ties
- Easy to assemble and remove
- Typically used on hydraulic hoses, fuel and oil lines, brake systems, wiring harnesses and battery cables
- The THPSD4B is to be used on 1/2" hoses and smaller since it is designed with a smaller radius





## ALSO THINK ABOUT: HOSE AND TUBING CLAMPS

### STAINLESS STEEL T-BOLT HOSE CLAMPS

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- Designed to provide a dependable seal on large diameter applications where high vibration occurs
- Strong construction with full bushings

### PLASTIC HOSE CLAMPS

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- Cost-efficient way of securing pipes and hoses
- Plastic hydraulic hose clamps made of durable Nylon 6.6
- Available in 3 colors: gray, white and black

### WORM-DRIVE HOSE CLAMPS

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- Two styles available
- Solid bands, which offer better hose protection than perforated alternative
- AISI 304/W4 version has stamped rather than perforated band; its rolled up edges avoid flexible rubber hose distortion

## DOWNLOAD FREE CADS AND TRY BEFORE YOU BUY

Free CADs are available for most solutions, which you can download for free. You can also request free samples to ensure the solutions you've chosen are exactly what you need. If you're not quite sure which product will work best for your application, our experts are always happy to advise you.

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