

From the 1960s to the present, Caterpillar has been **the only equipment manufacturer to make its own**



hose and couplings. High-quality materials, exacting processes, and tough testing mean Cat[®] hose products exceed industry standards. Add our comprehensive support and you're assured of the **best performance and value**—two good reasons to make Cat hose and couplings your preferred connection.

Extremely tough outer cover

- Resists oil, weather, abrasion, and wear

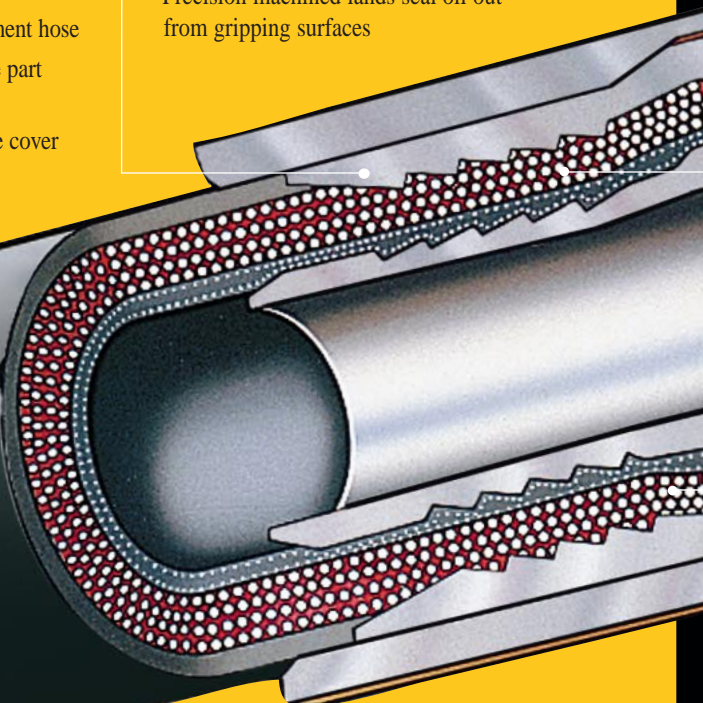
Color-embossed layline

- Makes it easy to install the right replacement hose
- Features key information—like bulk hose part number and inner diameter
- Stays readable long after use—even if the cover has been painted

Superior quality hose assembly

- Sleeve-coupling combination provides consistent grip, use after use
- Precision machined lands seal oil out from gripping surfaces

CAT 736-16 XT-3 ES

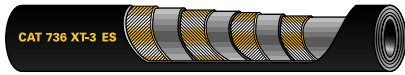


Superior products—perform better and reduce costs

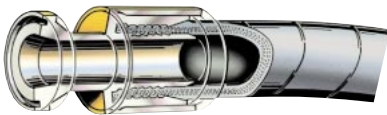
Cat hose and couplings work as a system to deliver top performance and long life in a wide variety of applications. We're your one-stop shop for Caterpillar hose products, including:

Broad line of Caterpillar hose and couplings*

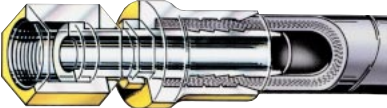
High pressure



XT-3 ES (shown), XT-5, XT-6, and DIN hose

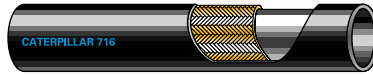


Reusable collet-type couplings

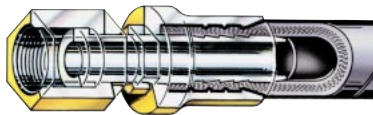


Permanent skive-type couplings

Low and medium pressure

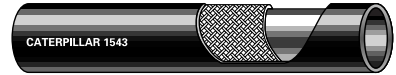


One-wire braid 716 (shown), two-wire braid 294, and hydraulic suction hose 844

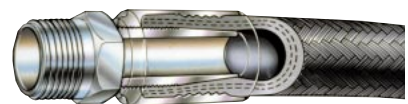


Permanent non-skive couplings

Special application



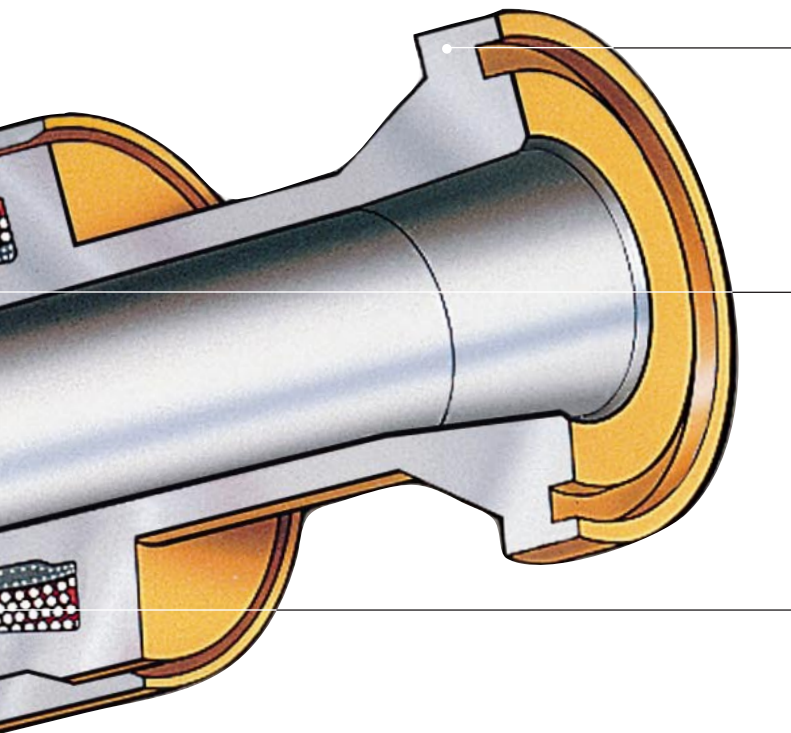
One-wire braid fabric cover 566, engine and air brake 1130, air conditioning 1543 (shown), and thermoplastic hose 2760 and 1028



Reusable screw-type couplings (shown) and permanent non-skive couplings

* Also available—Couplings for equipment other than Caterpillar

Some differentiating features of Caterpillar hose and coupling products



Exclusive reusable coupling design

- Lets you reuse couplings, reducing downtime
- Saves you an average of 33% off the cost of assemblies with permanent couplings

Premium quality rubber

- Features unique compounds that offer better physical properties and more resistance to heat aging
- Provides more strength and durability—Caterpillar embeds fabric between two thin layers of rubber; other manufacturers apply fabric to the outside, where it's more likely to separate and cause failure

Precision wire reinforcement

- Enhances hose durability
- Helps ensure consistent quality
- Keeps wires from separating when flexed, leading to extended life

Cat hose and couplings perform reliably and last a long time—because they've been through the industry's most **rigorous testing** process.

In most cases, Caterpillar tests its hose far

beyond industry standards

to simulate years of work in punishing

conditions. The result is extended hose life

and **lower hose costs** in your application.



*The International Standards Organization (ISO) abrasion resistance test requires a 50N (11 lb.) steel tool to be cycled back and forth along the length of the hose until the cover wears away to the point of wire exposure.

Tough testing—helps ensure long life

The Society of Automotive Engineers (SAE) has developed standards to classify hose—addressing areas like pressure rating, impulse performance, change in length, and resistance to hot and cold temperatures. Caterpillar hose is tested to exceed SAE standards and deliver long life in even the toughest applications.

Aged impulse testing simulates the most extreme operating conditions

Cat hose is aged—filled with oil, baked, and frozen. (Other manufacturers test unaged hose.) Then it's impulse tested up to 2.5 times SAE standards to give you more reliable, durable hose.

Elongation test measures change in length

As hose is brought up to working pressure, less change in length equals longer life. Caterpillar insists on a small percentage of change—ensuring the strongest possible joint between the hose and coupling.

Impulse Testing			
Caterpillar		the Industry	
Product	Impulse Cycles Aged	Impulse Cycles Unaged	Product
716	250,000	150,000	100R1
294	500,000	200,000	100R2
556	100,000–150,000	100,000–150,000	100R5
XT-3 ES	1,000,000	500,000	100R12
XT-5	1,000,000	500,000	100R13
XT-6	1,000,000	500,000	100R15

Elongation Test	
Caterpillar	±1%
Industry Standard	±2%

Other tests exceed industry requirements

Caterpillar goes beyond standard industry tests to ensure its hose works better and lasts longer. Cat hose also undergoes pressure, strength, flexibility, bend radius, and abrasion resistance tests.





Superior products and tough testing

make Cat hose and couplings the best in the industry. Add our

comprehensive support—including fast, accurate

assembly, contamination

control, and over-the-counter

or **on-site service**—

and your machines will be

up and running quickly.



Fast, dependable service—keeps you up and running

We have a broad line of Cat hose and couplings in stock and available when you need them. Plus, we can make hose assemblies to spec while you wait—or call ahead, and in most cases, we'll have your order ready when you arrive. If you prefer to make your own assemblies, we can help by setting you up with the right tooling and training. We can even assist with stocking requirements—products are available in bulk.

Hydraulic Information System (HIS) puts hose and coupling data at our fingertips

HIS puts information about Cat hose—for both current and non-current machines—at our fingertips. Using this on-line system, we can find parts data for your equipment quickly and provide accurate quotes for replacement hose assemblies.

State-of-the-art tooling is fast and accurate

Quality hose assemblies are the result of hose and couplings coming together with tooling that is matched to the product.

Computer-controlled hose assembly machines guide our trained assemblers through every step of the process—improving speed and accuracy. And our precision-machined crimping dies deliver highly accurate crimps that are more consistent than industry standards.

Contamination control equipment ensures cleanliness

We use special contamination control equipment to ensure your hose and coupling assembly is clean before you use it. We also cap and plug each assembly to help you keep out the contaminants that can harm today's fluid systems.



Hose Service



- ◆ GENUINE
- ◆ FACTORY
- ◆ CLEAN
- ◆ GUARANTEE
- ◆ CUSTOM AVAILABILITY

Commitment of service and support

More and more of your operating costs are tied to your hydraulic system. We can help you lower those costs with a broad range of Cat hydraulic components—hose, couplings, and more.

Plus, our system management techniques keep equipment working at maximum productivity—and our fast, dependable service gets you back up and running quickly.

For more information about our products and services, call us today or visit the Caterpillar website at www.CAT.com.

