

Technical Hoses & Connection Systems





Masterflex – your partner for High-Tech Hose Systems

Five good reasons for choosing Masterflex

About MASTERFLEX

As a globally operating corporate group, Masterflex specialises in solving complex connection challenges. We can now boast over 25 years worth of experience in the development, manufacturing and processing of high-tech spiral hoses. Our in-depth material and technological expertise helps us turn the most sophisticated high performance plastics into real products, which set international standards. Our core values determine our work philosophy and connect us directly with the whole group.

Masterflex Group – Connecting Values

1

What makes us special

Customized hose solutions or products from stock? Whatever you require, we have the right products for your application. We solve connection tasks using high-tech plastics and technically sophisticated fabrics. Here lies our expertise and our passion. We offer added value for our customers with our many years of experience in the field of polymer materials, technically sophisticated fabrics and their processing. From the first on-site consultation and the status analysis through to the development and production of the suitable products - we're there to support you throughout the whole process with our innovative complete solutions.

[Custom-made and all from one supplier.](#)

2

Why you can always count on us

You can always rely on the constantly high quality of our products. Our products meet even the most stringent of national and international standards. This is a basic demand we place on ourselves. Whether heat, cold, extreme conditions or exposure to chemicals, our products prove themselves through their incredible durability and the long-lasting safety they bring. No matter how good our products are now, we are always working on newer and better ones for the future.

[Your satisfaction is our greatest success.](#)





3

We make it possible for you

We are as flexible as the very materials we use. We tackle any challenge, because extraordinary tasks require extraordinary solutions. And that's exactly what we offer. With our in-depth specialist know-how, we develop customized product solutions for your specific application situation. You need a product quickly, require an unusual combination of materials or a delivery "just in time"? With our quick reactions and delivery times, we're the perfect partner for you:

Because in our business, reliable connections mean much more.

4

We're there where you need us

We develop sophisticated and customized products with greater customer benefits. For this reason, our highly experienced sales team is spread worldwide, nearer to wherever you need us. As a fundamentally strong development partner, we have our eye on the market and develop cutting-edge solutions for your specific tasks. At all of our locations throughout the world, our products are manufactured with our renowned German Engineering. This guarantees high quality, short distances, quick reaction times and the direct connection to you, the customer.

Consultation-oriented, individual, fast and with great expertise
- that makes the difference!

5

Quality, which speaks for itself

Visionary ideas drive us forwards and are the source of our own product developments and innovations. Our creations are produced with renowned German Engineering expertise. Our Engineering, Sales and Production Teams work seamlessly to provide you with the best results. This guarantees international quality standards, worldwide. Whatever we do, we always take great care of the environment. Resource-conserving processes and sustainability are our contribution to the environment.

Products & Services from Masterflex
- we create values ... and connect them!

Definition: Hoses

Flexible, pipe-shaped connections for transporting solid, liquid or gaseous media.

Hose Construction Designs

Hoses/Ducting with Clip Profile Spiral

All Master-Clip hoses belong in this category, as well as the hose types Carflex 200 and Carflex 300.

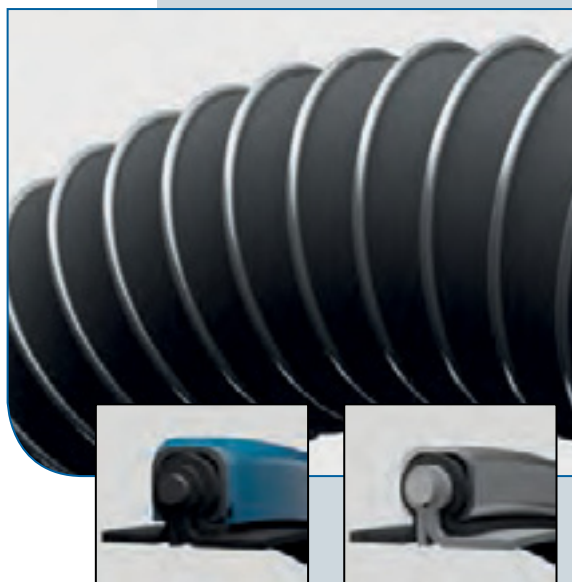
Construction

Robust, tension-resistant connection of the inner hose material and the outer profile helix using the special "Clip" method.

Advantages

This method offers an extremely wide range of options for the universal processing and combination of almost any hose materials.

- External wear protection via outer clip-profile helix (Clip)
- Excellent flexibility
- Smallest bending radius
- Extremely compressible (depending on size)
- Installation-friendly thanks to the patented "Clip-Grip" special hose clamps
- Almost any production diameter possible from DN 38 - DN 2000



Profile-Extruded Hoses

This construction design includes all Master-PUR, Master-PVC L, Master-PVC H, Master-PE L-EL and Master-SANTO hoses, as well as the hose types Streetmaster, Cargoflex, Polderflex PUR, Inline and Flamex B se.

Construction

Extruded plastic profile with a moulded twist and dislocation-proof spring steel wire.

Advantages

Production variations available from lightweight and highly flexible through to heavy duty and extremely vacuum-proof.

- spiral-shaped with welded overlaps
- continuous, symmetrical folding due to robust connection between plastic and spring steel wire
- aerodynamically efficient due to smooth inner lining
- wide range of processing options available for almost all thermo-plastic materials
- production diameters available (dep. on hose type) from DN 13 - DN 500





Film/Foil/Fabric Hoses with Embedded Helix

This construction design is applied for the Flamex B-F se, Master-PUR L-F Food and Master-PE L-F EL hose types.

Construction

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an embedded profile made from spring steel wire.

Advantages

Variable production options for spiral hoses made from a wide range of materials including strips of film, foil or fabric.

- highly flexible
- smallest bending radius
- cost-efficient stock management and reduced transport costs thanks to compressed size with net packaging
- production diameters available (dep. on hose type) from DN 32 - DN 450



Film/Foil/Fabric Hoses with External Helix

This method includes the hose types Carflex Super, Master-PUR STEP, Master-PUR STEP MHR and Master-SANTO SL.

Construction

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an external profile made from plastic or plastic-coated spring steel wire.

Advantages

Variable production options for spiral hoses made from a wide range of materials including strips of film, foil or fabric.

- highly flexible
- smallest bending radius
- production diameters available (dep. on hose type) from DN 32 - DN 450



Spiral Hoses with Seamless Plastic Outer Coating

This method includes all Miniflex hose types.

Construction

Strips of film, foil or fabric – spiral-shaped with welded overlaps and an external profile made from plastic or plastic-coated spring steel wire.

Advantages

- seamless outer hose coating
- extremely flexible
- smallest bending radius
- production diameters available from DN 7 - DN 50

Single/Multi-Layered Spiral Hoses made from Vulcanised Fabric Strips

This construction design encompasses the hose types Master-NEO 1, Master-NEO 2, Master-SIL 1, Master-SIL 2, Master-SIL HD-Food and Master-SIL SD-Food.

Construction

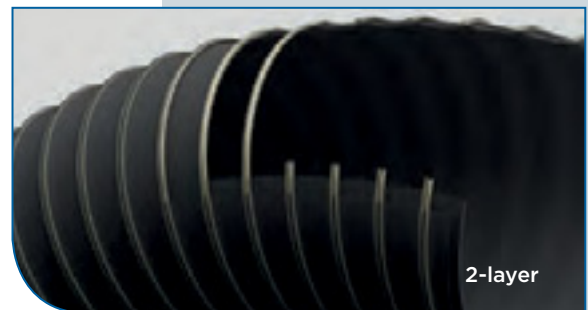
Vulcanised fabric strips wound with overlaps onto an inner, free-floating or embedded helix made from spring steel wire and an additional external fibreglass fixation for the hose types NEO 1/2 and SIL 1/2.

Advantages

- smooth inner lining
- flexible
- small bending radius
- good pressure-resistance
- production diameters available from DN 13 bis DN 305



1-layer



2-layer

templine® Heated Hoses

Hose with electrical heating for constant and consistent heat distribution over the entire hose surface.

Construction

Inner media hose made from polyamide or PTFE. Braided temperature-resistant material covering the entire hose surface. Four integrated (braided and set) heating cables made from different alloys with varying conductor resistances.

Advantages

- consistent heat supply to the transport media with minimal temperature deviation
- optimum protection of temperature-sensitive liquids, dusts, gases and granules
- greater energy efficiency – significantly reduced power consumption in comparison to conventional systems (up to 30 %)
- highly flexible and permanently twistable in all directions (360°) without any reduction in heat distribution

