


solution

CUSTOMER MAGAZINE 01 | 2025



How well thought-out designs improve production standards

Hygienic design in practice

Page 4

New blueglobe Ex e cable gland

Innovative explosion protection made of polyamide

Page 12

PFLITSCH at trade fairs 2025

Experience innovations live

Page 20

Big PFLITSCH machine promotion

Buy now and save up to €5,000

Page 32

Dear customers, business partners and friends

The world around us is changing at a rapid pace. Safety and efficiency are more important than ever – and we face the challenge of keeping up. But every change also harbours opportunities: if you act smartly, you can secure a decisive advantage.

In this issue of solution, we take a closer look at a topic that is becoming increasingly important: Hygiene as a success factor. Particularly in the food and pharmaceutical industries, the highest standards are in demand – and for good reason. But how can strict regulations, economic efficiency and technological innovation be combined? We will show you which trends will determine the future and how you can gain a real competitive advantage with innovative solutions.

The topic of security is also becoming increasingly important. How can you minimise risks without compromising on performance? We take a look at new developments and give you ideas for practical solutions.

We also have an exciting offer for anyone who wants to organise their processes more efficiently – let us surprise you!

We invite you to discover new perspectives, take away fresh ideas and be inspired in this issue. We look forward to exchanging ideas with you.

We hope you will enjoy reading

Roland Lenzing and Mathias Stendtke
 Managing Partners
 PFLITSCH GmbH & Co KG



Roland Lenzing and Mathias Stendtke

Inhalt

- 04 **Cover story**
 Hygienic Design in practice: How well thought-out designs improve production standards
- 08 Maximum hygiene meets reliable EMC protection: the new PFLITSCH Cleanplus TRI
- 10 Innovative extension: LevelEx und LevelEx TRI
- 12 Safety at the highest level: The new Ex cable gland blueglobe PC HT Ex e
- 14 myPFLITSCH – your BENEFITS
- 16 PFLITSCH Wire-tray Trunking – Open cable routing for the most stringent hygiene requirements
- 20 PFLITSCH at national and international trade fairs – a review and outlook
- 24 EMC solutions from PFLITSCH – safety you can count on in every application
- 30 PFLITSCH live on tour!
- 32 The big PFLITSCH machine promotion
- 36 Best solutions for every application



Hygienic Design in practice: How well thought-out designs improve production standards

Hygiene as a success factor in sensitive industries

The importance of hygiene in the food and pharmaceutical industry is constantly increasing. Consumers place high demands on the safety of products, while at the same time companies have to comply with strict regulations and operate economically. According to the German Federal Institute for Risk Assessment (BfR), 87% of consumers consider hygiene to be one of the most important factors when choosing food. This is where Hygienic Design comes in: A well thought-out design of machines and components minimises the risk of contamination and makes cleaning easier – for maximum safety and efficiency.

Common requirements and industry-specific differences

In both the food and pharmaceutical industries, the highest standards of cleanliness apply in order to avoid contamination and health risks. In both industries, smooth, easy-to-clean surfaces and the avoidance of dead spaces are essential to prevent the formation of germs.



Nevertheless, there are also differences: While food production places greater emphasis on resistance to aggressive cleaning agents and easy cleanability, the pharmaceutical industry also focusses on the absence of particles and compatibility with sterile production processes. Here, materials are required that are not only corrosion-resistant but also suitable for cleanrooms.

Cost efficiency through smart design

According to the European Food Safety Authority (EFSA), product contamination causes over 8 billion euros worth of damage every year. Reducing these risks is not only a question of safety, but also an economic advantage. Hygienic Design helps to reduce cleaning costs by up to 30% while increasing operational safety.



Enjoy an **extra portion!**

Now also with **assembly safety.**

The new **Cleanplus** Hygienic cable gland with simple assembly thanks to fewer components

CERTIFIED EHEDG

Cleanplus

Find out more

Customised solutions from PFLITSCH

As a specialist in industrial cable management, PFLITSCH sets standards in Hygienic Design. With the Cleanplus cable gland, PFLITSCH offers the world's first Hygienic cable gland certified according to the current EHEDG guidelines – for maximum safety and easy installation. The design allows for particularly easy cleaning, as it has smooth, seamless surfaces that prevent dirt adhesion. Assembly is also particularly simple and saves time and money, as it consists of just a few components, washers are not required, the cable cannot be twisted due to the serration of the sealing insert and

the pressure screw is always screwed onto the block with the same torque. No special tools are required for installation.

Maximum hygiene meets reliable EMC protection

With the Cleanplus TRI, PFLITSCH is expanding its portfolio with an innovative solution that combines Hygienic Design with high-performance EMC protection. The EHEDG-certified cable gland impresses with its seamless, chemical-resistant construction, which enables residue-free cleaning. The patented TRI spring also ensures full-surface shield contacting and provides reliable protection against electromagnetic interference.

Innovations for cleanroom technology: PFLITSCH has a REINER!

PFLITSCH is also setting new standards with the blueglobe CLEAN Plus PA, the world's first Hygienic Design cable gland made of polyamide. This plastic cable gland combines the highest hygiene requirements with an economical solution and is therefore ideal for companies looking for a cost-sensitive alternative to stainless steel. In 2021, PFLITSCH was awarded the prestigious REINER! prize by the Fraunhofer Institute for this innovation. A recognition that confirms the company's commitment and innovative spirit.

The portfolio is complemented by hygienic open Wire-tray Trunking that enables easy cleaning and prevents deposits. Thanks to their open design, you have permanent access to the installed cables. Residues can be removed quickly and efficiently, which further reduces cleaning costs. In addition, the PFLITSCH Wire-tray Trunking can be combined with a cover – ideal for applications where cables need to be protected from mechanical impact and dripping liquids, while at the same time preventing the accumulation of liquids. These covers are available in two versions: roof-shaped or as full protection.

High efficiency and reduction of TCO (Total Cost of Ownership)

Easily calculable cleaning cycles without additional cleaning measures offer plant operators long-term planning security and transparency. With the PFLITSCH portfolio, cleaning costs can be optimised and downtimes avoided. This has a lasting effect on operating costs.

Future-proof through commitment and expertise

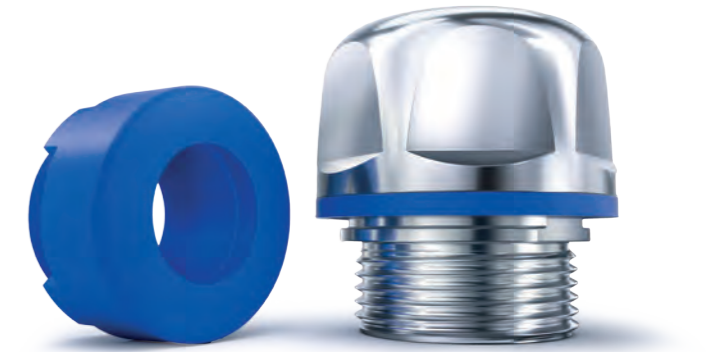
PFLITSCH is actively involved in the EHEDG and contributes to the continuous development of hygiene standards. The dialogue with experts, customers and scientists strengthens hygiene safety throughout the industry. According to an internal PFLITSCH survey, over 90% of customers have been able to significantly improve cleaning efficiency in their production facilities by using Hygienic Design products.

Hygiene as an opportunity for efficiency and competitive advantages

With PFLITSCH as a partner, companies can rely on future-proof solutions that fulfil the highest hygiene standards and increase cost-effectiveness at the same time. Thanks to an extensive Hygienic Design portfolio – from certified cable glands and easy-to-clean open cable trunking to complete solutions – the challenge of hygiene becomes a real opportunity for quality, efficiency and competitiveness.

Stay tuned!

Look forward to another innovation from PFLITSCH that complements the Hygienic Design range and once again sets new standards. We will be presenting this innovation in the next issue of Solution.



Would you like professional advice or further information?

Please contact our expert!



Heiko Emde

Market Segment
Manager Food & Pharma
heiko.emde@pflitsch.de
Phone: +49 2192 911210





Maximum hygiene meets reliable EMC protection: the new PFLITSCH Cleanplus TRI

Innovative technologies and the highest safety standards are essential in sensitive industrial sectors such as the food, pharmaceutical and chemical industries. With the new Cleanplus TRI, PFLITSCH is once again setting new standards by combining hygienic design with high-performance EMC protection.

Simple assembly for maximum efficiency

Not only the technical features, but also the ease of use make the Cleanplus TRI the ideal choice for demanding industries:

- » Safe assembly without special tools
- » No twisting of the cable thanks to optimised sealing element
- » Compact design for space-saving installation

Versatile application possibilities

The Cleanplus TRI offers a powerful solution for different areas of application:

- » Food production: avoiding contamination through hygienic design
- » Pharmaceutical industry: fulfilment of the highest purity requirements
- » Chemical and process industry: protection against aggressive media and electromagnetic interference

With the Cleanplus TRI, PFLITSCH is setting new standards for safety and efficiency in production. Benefit from maximum hygiene safety, EMC protection and ease of assembly – for future-proof and economical production.

Hygienic design according to EHEDG standard

The Cleanplus TRI fulfils the strict EHEDG guidelines (European Hygienic Engineering & Design Group) and with its smooth, seamless construction, offers optimum protection against dirt adhesion. The chemical-resistant materials used make it easy to clean the product without leaving any residue and minimise the risk of contamination – a decisive advantage for hygiene-critical applications.

Patented TRI spring for maximum EMC safety

In addition to hygiene, protection against electromagnetic interference (EMC) plays a central role. The proven TRI spring technology from PFLITSCH ensures full-surface shield contacting and mechanical separation of sealing and shielding. The high vibration resistance guarantees long-term, reliable operation and prevents interference in sensitive production environments.

Maximum cleanliness, minimum deposits! The Cleanplus TRI for hygiene-sensitive production areas.

Find out more:



Innovative extension: LevelEx and LevelEx TRI

The tried-and-tested LevelEx and LevelEx TRI cable glands are now also available in size M16 with a sealing range of 3.0 to 8.0 mm. PFLITSCH is thus expanding its product portfolio to include a compact solution for potentially explosive atmospheres and offers even more flexibility for various applications in industries such as oil, gas, chemicals and offshore.



Simple and safe assembly

The PFLITSCH LevelEx M16 and LevelEx TRI M16 impress with their compact design, which ensures space-saving installation.

The optimised design also makes assembly much easier:

- » Clearly organised, compact design with only four (LevelEx) or five (LevelEx TRI) parts
- » Captive sealing elements for maximum safety
- » Large key support surfaces for easy handling
- » PFLITSCH – Your partner for safe cable management solutions

With the introduction of the new M16 size, PFLITSCH is expanding its portfolio and offering customers even more flexibility when choosing the right cable gland. Find out more about the new LevelEx and LevelEx TRI M16 – contact us for further information or a personal consultation.

Maximum safety and quality

The LevelEx and LevelEx TRI cable glands stand for uncompromising quality and maximum protection in demanding applications. The new M16 variants have protection types IP 66 and IP 68 as well as „flameproof enclosure Ex d“ and „increased safety Ex e“. They are therefore ideally suited for use in potentially explosive areas where the highest safety standards are required.



**Explosion
protection made
easy!**

All information about LevelEx and LevelEx TRI can be found here:



Safety at the highest level: The new Ex cable gland blueglobe PC HT Ex e



PFLITSCH is once again setting new standards in safe cabling for potentially explosive atmospheres. With the blueglobe HT Ex e, we are launching an innovative Ex e cable gland made of plastic that fulfils the highest safety requirements. Particularly noteworthy is the fact that this Ex e cable gland is also suitable for applications in Ex i areas.

Maximum safety for demanding applications

The new blueglobe PC HT Ex e is specially designed for use in potentially explosive atmospheres. It fulfils the requirements of ignition protection type „increased safety“ (Ex e) and therefore offers maximum protection for electrical installations in explosion-protected environments. It is also suitable for applications in intrinsically safe circuits (Ex i) that require reliable limitation of electrical energy to prevent ignition hazards. Thanks to IP66/IP68 certification (up to 10 bar for 60 minutes), it offers maximum protection against the ingress of water and dust. With a temperature range of -20 °C to +60 °C, it remains efficient even under demanding environmental conditions.

A decisive advantage of this cable gland is its low weight. Thanks to the use of polycarbonate (PC), it is significantly lighter than metallic alternatives, which makes it particularly attractive for applications with weight restrictions. It is also characterised by its high corrosion resistance. Its excellent insulating properties further increase safety in sensitive applications. Thanks to its flexibility, it can be used for cable diameters from 6 mm to 32 mm and is available in various thread sizes.

Versatile application possibilities

The blueglobe PC HT Ex e is used in numerous industries. In the chemical and petrochemical industries, it ensures safe cabling in potentially explosive areas, for example on pumps and control systems. It also offers reliable protection in production facilities in the pharmaceutical and food industries, where potentially explosive dusts can occur. The oil and gas industry benefits from reliable sealing in refineries, on oil platforms or in tank farms. It is also a safe solution for applications in battery storage systems and biogas plants as well as for use in sensor and measurement technology to ensure safe signal transmission in potentially explosive areas.

PFLITSCH – Quality „Made in Germany“

With the blueglobe HT Ex e PC, we offer a high-quality, flexible and cost-efficient solution for explosion-protected applications. The combination of innovative technology, high protection class and outstanding processing quality makes it the first choice for companies that prioritise safety and efficiency.

The PFLITSCH team is always available for further information and advice. Ensure maximum safety – with the new blueglobe PC HT Ex e!

myPFLITSCH – your BENEFITS

How registered customers benefit from our exclusive service area

Our promise to always provide you with the best solution does not only apply to our product solutions which ensure that your plants and processes run safely and efficiently. We also want to make sure that you can find and order your perfect solutions easily, quickly and smoothly on our website. This is why we have created **myPFLITSCH** – a premium service area for registered customers that offers you a whole range of attractive and exclusive benefits.



Systematic simplification of design processes

For example, myPFLITSCH gives you direct access to our CADENAS component library. Here you will find the 3D CAD files of our cable glands and cable trunking with online viewer, file export and all product features. Not only do these aid the design process by enabling you to incorporate them directly into your planning; they also help you to create quotations, order lists and documentation.

unsure whether you have chosen the right product? Then you can request a sample and use the info button to contact our sales department. Before we execute your request, our sales department will check your order and, if necessary, suggest how it can be optimised. A practical feature: all your requests are saved under "My Enquiries" so that you can view and request them again at any time.

Intelligent request management

A further advantage of myPFLITSCH is the product search query function. When you have used the product search to select your product from our range of more than 32,000 articles, you can put it straight into your shopping cart and send it directly to our ERP system at the touch of a button for fast, digital processing. Or perhaps you are

See how your machine pays off: the ϵ amortisation calculator

Do you want to cut your cable trunking yourself and are considering buying a PFLITSCH machine to cut it professionally and efficiently? Use our amortisation calculator at myPFLITSCH to make sure that the machine of your choice will pay for itself. It shows you how quickly the machine will amortise based on your average work volume.

Optimise your processes with myPFLITSCH!

Register now!

PFLITSCH Wire-tray Trunking

Open cable routing for the most stringent hygiene requirements



Pros of Wire-tray Trunking

- + Easy to clean
- + Sturdy, corrosion-free structure
- + Hygienic cable routing
- + Simple cable laying, pre-assembly and installation
- + Smart and comprehensive range of accessories
- + Component assembly service

If hygienic cable management is required, PFLITSCH offers not only a complete range of solutions for cable entry, but also a sophisticated system for safe and efficient cable routing – Wire-tray Trunking. Thanks to its specific design features and material properties, PFLITSCH Wire-tray Trunking is particularly suitable for use in the food and pharmaceutical industries, with their extremely strict hygiene regulations.

Cleaning made easy

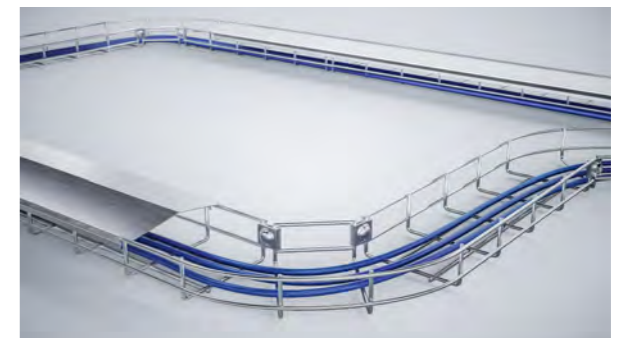
With its open, i.e., non-enclosed, design, Wire-tray Trunking ensures optimum cleanability and good ventilation – a genuine advantage especially when plant has to be cleaned regularly and thoroughly with a high-pressure cleaner and foam. What's more, the wires are made of zinc-plated or stainless steel, both of which are resistant to corrosion and all common cleaning agents. To increase its suitability for plant that demands compliance with strict hygiene regulations, the trunking system also offers roof-shaped covers. These prevent dirt or bacteria from accumulating when the trunking is installed horizontally. In addition, they provide the cables laid in the trunking protection from mechanical stress or from liquids such as cleaning fluids dripping from above.

It couldn't be simpler: cable laying and installation

PFLITSCH Wire-tray Trunking enables large numbers of cables to be laid safely and clearly over long distances, with highly customised trunking layouts also possible. Depending on the hygiene guidelines, both horizontal and vertical installation is possible. The open cable routing ensures not only easy laying and removal of cables and lines, but also permanent access to them – making any maintenance or repair work necessary much simpler to carry out. The principle of simplicity also applies to time- and cost-saving pre-assembly and assembly work.

Hygienic cable routing in all dimensions

PFLITSCH Wire-tray Trunking is available in a number of high-quality materials, from zinc-plated or hot-dip galvanised steel to a AISI 304L stainless steel variant and an acid-resistant AISI 316L version that is ideal for the food industry. The Wire-tray Trunking is also available in a wide range of sizes and shapes to accommodate the installation of greatly differing numbers of cables. In addition to the standard profile variants such as U-shaped, L-shaped and flat trays, there is also a Z-shaped tray. This is the perfect solution for installing cables vertically without having to fasten them to the trunking, as it reliably holds the cables in place thanks to its special design – even when installed vertically and during high-pressure cleaning. There's no need for cable ties. Another common-sense option is the open and hygienic Single Wire System used for running single cables, since it would be over the top to install full-sized trunking in such cases. →

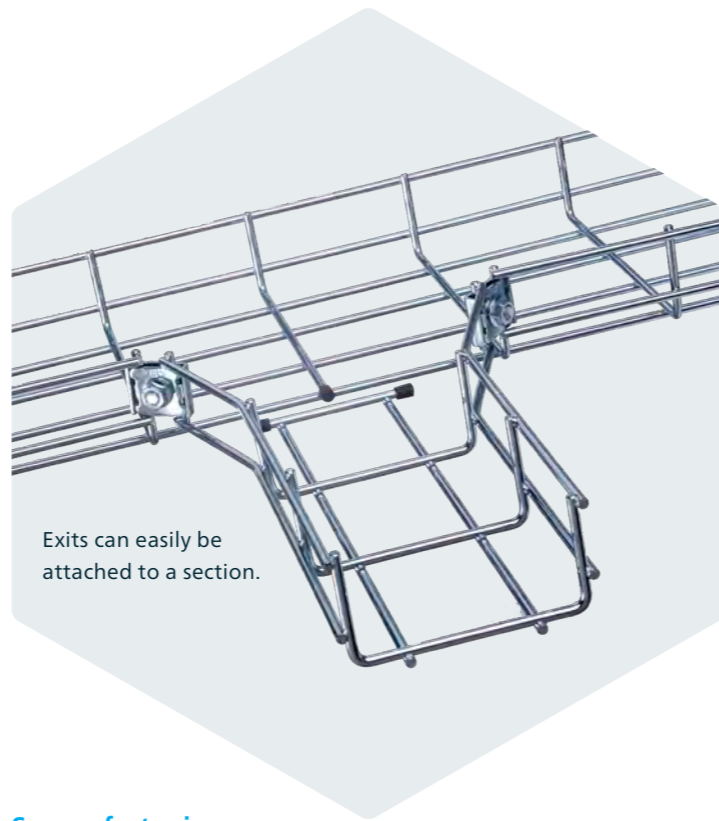


Superfast to customise

The trunking trays are made of up to 6 mm-thick, zinc-plated or stainless steel wire. They offer a high level of stability and are extremely easy to customise: A few simple steps are all it takes to make various bends, corners, offsets, exits and tapers from a straight section of Wire-tray Trunking. The segments are then screwed together with connectors and any open wire ends fitted with end caps. Our mobile, electrohydraulic Wire-tray Trunking shears are ideal for cutting the trunking to length and customising it. Their 330°-rotatable cutting head cuts through the wires effortlessly, making the tool easy to use even on already installed cable trunking. A built-in hydraulic shock absorber, one-handed operation and the LED-illuminated work area make working with the Wire-tray Trunking shears a joy. What's more, the shears are extremely robust, with long maintenance intervals of up to 20,000 cuts.

Thought through from start to finish – the range of accessories

The technical superiority of our Wire-tray Trunking is underpinned by the smart range of accessories with which users can customise their cable routing precisely to their own specific requirements. Insertable radius limiters and bending plates protect the installed cables at transitions and bends. Separators help route cables in an orderly manner in the Wire-tray Trunking. Universal mounting plates can be supplied for installing components directly at the trunking. Add to these components such as various types of cover, which are also available in full-protection versions with side covers. The covers are simply clipped onto the Wire-tray Trunking and also have the effect of increasing the installation's overall stability.



Exits can easily be attached to a section.

Secure fastenings

To facilitate efficient and secure installation of its Wire-tray Trunking in all environments, PFLITSCH has also developed a comprehensive range of fastenings. The outstanding stability of these tried-and-tested fastenings, which include mounting brackets, suspended cable supports, beams, holders, supporting feet and much more, allows greater spacing between supports, saving time and costs during installation. And with regard to hygienic design, it should be noted that the horizontal surfaces of these fastenings have been kept to a minimum so that dirt and cleaning fluids cannot settle on them.

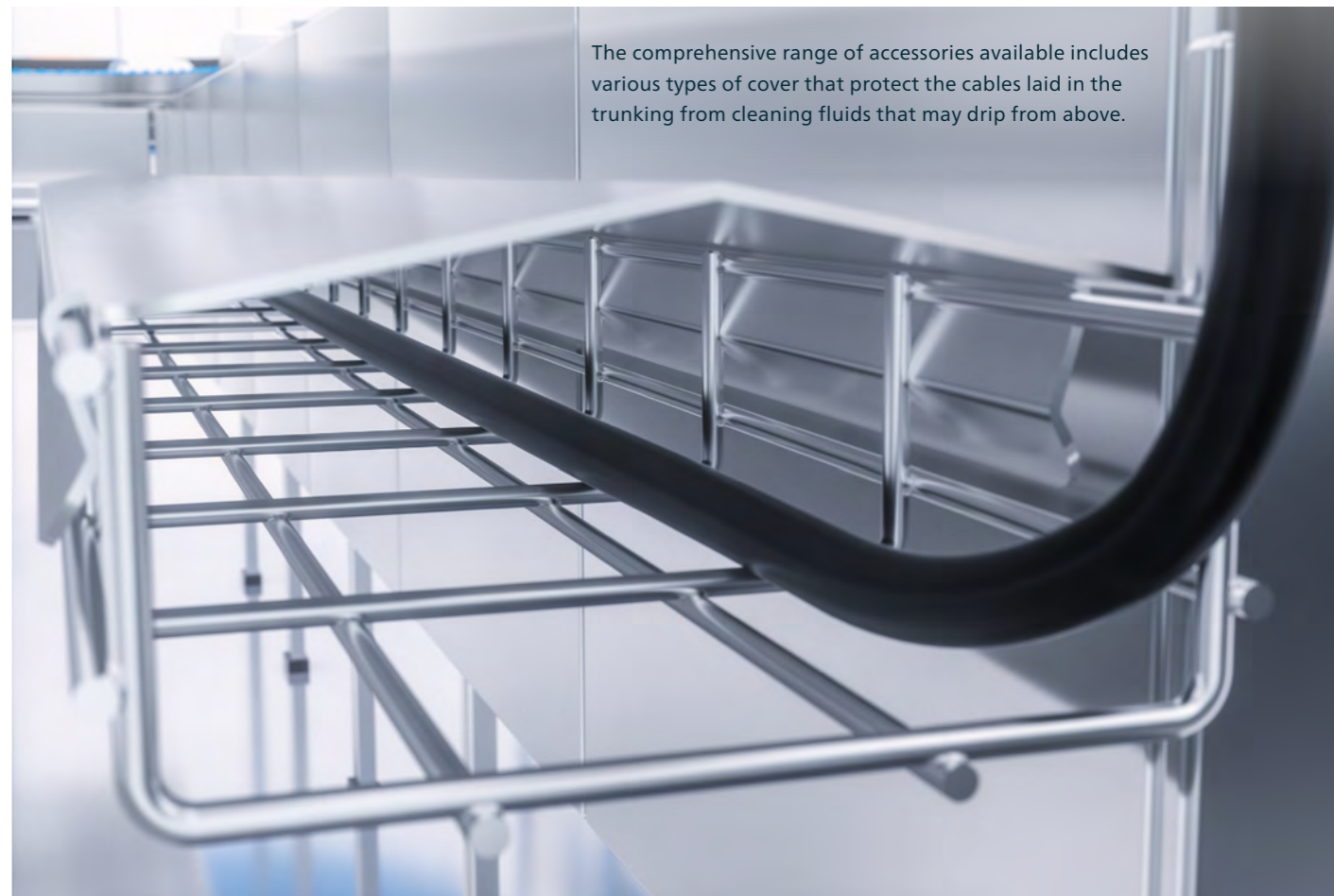
Component assembly service

PFLITSCH's component assembly service for its cable trunking systems is becoming increasingly popular. Ready-to-install component assemblies, in this case for Wire-tray Trunking, are supplied pre-assembled and on schedule according to each customer's specifications. This significantly reduces the time you, our customers, spend on design and installation.



Z-shaped trunking for installing cables vertically without the need for additional fastenings.

The mobile electrohydraulic Wire-tray Trunking shears for cutting the trunking to length and customising it.



The comprehensive range of accessories available includes various types of cover that protect the cables laid in the trunking from cleaning fluids that may drip from above.

PFLITSCH at national and international trade fairs – a review and outlook

Trade fair review 2nd half of 2024

The second half of 2024 was characterised by intensive and successful trade fair appearances for PFLITSCH. As an innovative manufacturer in the field of cable gland and cable routing solutions, we were able to present our latest developments and make valuable contacts at four major trade fairs.



all about automation Chemnitz 2024

On 18 and 19 September 2024, PFLITSCH used the all about automation trade fair in Chemnitz to present our solutions in direct dialogue with automation and robotics experts. This compact but highly specialised trade fair enabled intensive dialogue with regional companies and trade fair visitors.



InnoTrans Berlin

As the world's leading trade fair for transport technology, InnoTrans in Berlin from 24 to 27 September 2024 provided the perfect platform to present our high-quality cable management solutions for rail transport. The focus was on our EMC shielded cable glands and our robust solutions for the railway sector. The numerous discussions with experts from the railway industry showed the great interest in our innovative product solutions.



IAS Shanghai

The Asian market is becoming increasingly important for PFLITSCH. By participating in the Industrial Automation Show (IAS) in Shanghai from 24 to 28 September 2024, we were able to further expand our presence in China. Our presentation of Ex cable glands and system solutions for demanding industrial environments met with keen interest.



smart production solutions

SPS 2024 in Nuremberg

From 12 to 14 November 2024, PFLITSCH was represented at SPS – Smart Production Solutions in Nuremberg. As the leading trade fair for the automation industry, it was a key meeting point for experts and decision-makers in the sector. Our splittable cable entries CABseal and our range of cable glands for automation and robotics applications in particular attracted a great deal of attention from visitors.



PFLITSCH at national and international trade fairs – a review and outlook

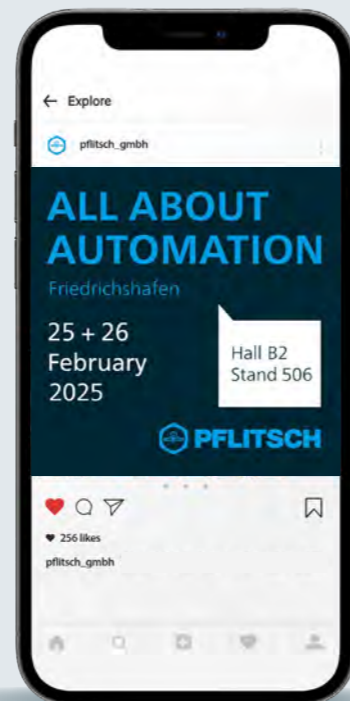
Trade fair outlook 1st half of 2025

PFLITSCH will continue its successful trade fair presence in 2025 and will be represented with its own stand at several important trade fairs.



all about automation in Friedrichshafen

From 25 to 26 February 2025, we were once again exhibiting at all about automation in Friedrichshafen. The trade fair offers an ideal opportunity to showcase our automation solutions in the cross-border Lake Constance region.



M+R Expo in Antwerp

Our premiere at the M+R Expo in Antwerp on 26 and 27 March 2025 promises exciting insights into the latest developments in measurement and control technology. We will be setting the tone with our Ex solutions, particularly in the field of offshore sensor technology.



smart production solutions

SPS Italia in Parma

From 13 to 15 May 2025, we will be exhibiting for the third time at SPS in Parma, the most important trade fair for digitised industry in Italy. Our EMC portfolio and our cable gland solutions from the UNI Dicht modular system will take centre stage here.



SMART Automation Austria in Linz

SMART Automation Austria in Linz from 20 to 22 May 2025 marks the end of the first half of the trade fair year and will be the sixth time we have presented our portfolio for industrial automation.

Secure your
**free trade fair
ticket now!**

Visit us at the next trade fair and experience the innovations from PFLITSCH live.

Simply request your free trade fair ticket at:
messe@pflitsch.de

We look forward to your visit at our stand!

We look forward to welcoming many visitors to our stand again in 2025 and shaping the future of industrial cable management solutions together!

EMC solutions from PFLITSCH – safety you can count on in every application

An overview of our extensive
EMC portfolio for safe industrial processes

The digitalisation and automation of industrial processes are in full swing. But unbridled progress with its efficiency and speed gains also harbours risks, such as increasing electromagnetic interference due to the growing networking of devices, sensitive electronic systems and new forms of energy generation. With our wide range of EMC solutions, PFLITSCH has the right solution for every application.

Top priority: avoiding interference

Although there is awareness of the potential risk of electromagnetic interference waves, standard solutions are often implemented without or with insufficient EMC protection, even though electromagnetic interference can lead to considerable operational disruptions and incalculable production losses. Troubleshooting is then time-consuming and costly. Preventing interference from electromagnetic fields with the help of safe EMC solutions should therefore always be a top priority.

EMC solutions – user-friendly in every respect

As a driver of innovation in industrial cable management, we at PFLITSCH have accompanied developments in the EMC sector right from the start. Over time, we have created a portfolio of EMC solutions tailored to the requirements of our customers, which boast both outstanding performance and user-friendly assembly and meet even the most demanding individual customer requirements. As our EMC cable gland series offer a vast number of solutions for every conceivable application, we would like to give you some general orientation with the following short profiles to help you choose the perfect solution.



The following general overview cannot and should not replace an individual consultation.

After all, this has far-reaching safety implications. We therefore recommend that you contact your local sales partner who will help you find the perfect solution. They will be pleased to make an appointment to discuss relevant EMC issues and more. Simply scan the QR code and enter your postcode:



All-rounder



blueglobe TRI – the all-rounder for the highest EMC requirements

The blueglobe TRI offers durable 360° bonding with the cable shield over a large area with a patented triangular spring for maximum screening attenuation – even when subject to vibrations. It reliably dissipates undesirably high shield currents and enables cost-effective installation. Since the cable is stripped only at the contact point, it can be continued and easily corrected during installation. A very large shielding and sealing range can be covered with one cable gland size. The blueglobe TRI is certified according to EN 45545 and has passed the Cat 8.2 test. It is therefore the only EMC cable gland qualified for use with Ethernet data cables that reach a transmission frequency of up to 40 gigabits per second.

Excellent value for money



UNI Interference Suppression Dicht – a sound basis for reliable EMC shielding

The UNI Interference Suppression Dicht offers basic EMC at an attractive price-performance ratio, making it ideal for high-volume installation. Thanks to its compatibility with the modular UNI Dicht system, it is suitable for a wide range of applications and covers a large contact area. Despite its small dimensions, it enables reliable bonding of small cables, even in confined spaces. The UNI Interference Suppression Dicht is particularly suitable for the electrical industry, automation and robotics.

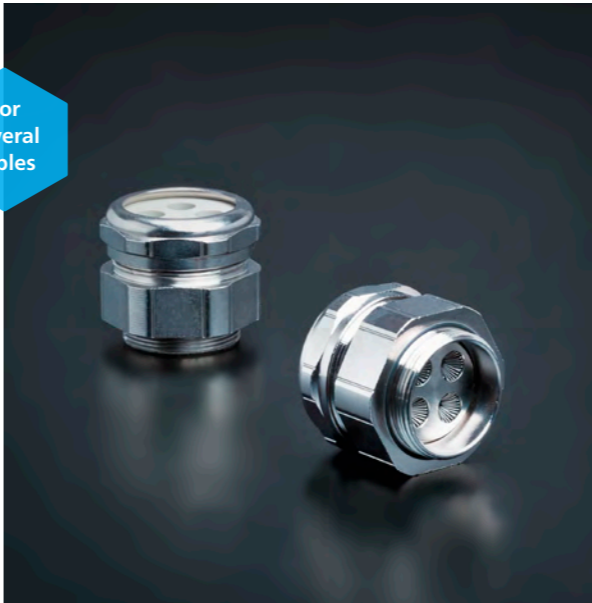
Small & compact



UNI Dicht TRI – maximum EMC protection can be this small

The compact UNI Dicht TRI cable gland is ideal for use where installation space is limited and can be precisely configured to meet individual requirements. Its triangular spring ensures large-area 360° bonding with high EMC screening attenuation and current carrying capacity, even when subject to vibrations, and is very durable due to the mechanical separation of strain relief and shielding. In addition, it allows for simple correction of the cable during the quick and straightforward installation and has a tothing system that prevents the cable from turning. Each gland size covers a large shielding and sealing range. A special feature is the shield contacting of very small cables, a particular advantage in the connector and sensor industry. The UNI Dicht TRI has UL approval.

For several cables



UNI Dicht Multiple TRI – the easiest way to insert multiple cables

The UNI Dicht Multiple TRI is the only EMC cable gland available on the market designed for reliably feeding in multiple shielded cables. To this end, the individual cable shields are bonded by separate triangular springs, giving them high screening attenuation and current carrying capacity. Assembly is simple, quick and reliable. A tothing system prevents the cables from twisting when the pressure screw is tightened. In addition, the cable gland boasts diverse properties such as strain relief up to Class A and protection rating IP 65 or IP 68 up to a pressure of 10 bar as long as the cable's cross section is the same as the diameter of the hole.

Extremely robust



UNI EMC Dicht – EMC protection with no ifs and buts

The UNI EMC Dicht boasts excellent EMC shielding based on reliable bonding achieved by compressing the cable shield between a pair of cones. This guarantees high shielding attenuation and outstanding current carrying capacity, even when subject to very strong vibrations. However, careful assembly is essential. The design based on DIN 89280, the DNV approval for the maritime sector and the certification according to the fire protection standard EN 45545 for the railway industry extend the range of applications.

For retrofitting



EMC adapter – EMC protection for unprotected cable glands

The EMC adapter with TRI spring is ideal for retrofitting standard cable glands without EMC shielding. It can be used as an adapter or lock nut and even enables EMC-compliant installation of plastic cable glands without having to replace them. When combined with an EMC cable gland, it increases the screening attenuation and current-carrying capacity by doubling the bonding surface of the cable shield. The split version of the EMC adapter enables simple shielding of already installed cables without having to disassemble them.

PFLITSCH live on tour!

Experience our solutions live on your premises – with our show truck

Our comprehensive range includes the right solution for all cable management requirements – whether cable entry, cable routing or cable protection. With over 12,000 system components, we not only cater for an enormous number of possible applications; we also convince with a variety of customer benefits. We'd be happy to travel to your premises with our show truck and demonstrate them to you in person.



Our show – your success

The know-how we share with you through our mobile trade fair can help you save real money. Our easy-to-follow demonstrations show how you can optimise your work processes simply by assembling your cable glands and cable trunking yourself. At the same time, we give you more options because you get a better picture of the many different applications for which our solutions are suited. And of course you profit from the perfect product. Together with you, we find the ideal solution for your specific needs on site at your factory.

Our solutions – made for you

Do you have any special requirements in relation to a particular application and have yet to find a solution that fits perfectly? Ask our experts when they travel to your premises with the show truck. We can offer you economical and flexible, made-to-measure solutions adapted to your specific requirements – because we develop in-house and have modern metalworking and plastics processing facilities at our disposal. A whole series of customised solutions developed by us have already found their way into our product range.

Secure your preferred date today

For a free demonstration, ask your account manager or write us an email: showtruck@pflitsch.de



Let us know your preferred date

We want you to get the maximum possible benefit from our roadshow. Your wish is therefore our command, in other words you tell us which topics are particularly relevant for your company. Simply send us a non-binding request for a show truck demonstration on a date of your choice.

The big PFLITSCH machine promotion

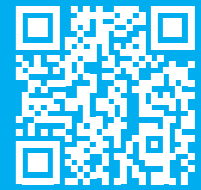
Purchased, gifted, saved

Whether quick and easy working, convenient and safe handling, exact reproducibility or optimised use of materials – PFLITSCH machines for processing cable trunking have a whole range of unbeatable arguments in their favour. The large machine promotion now goes one better.

Efficiency plus savings

The big PFLITSCH machine promotion now offers all those who want to process cable trunking professionally a significant saving: During the promotion period **to 1 June 2025**, you will also receive a certain number of cable trunking of your choice as a gift when you purchase a machine for processing PFLITSCH cable trunking. This will save you up to **5,000 euros**.

Would you like to know why using PFLITSCH machines pays off? Log in to myPFLITSCH and use our amortisation calculator to determine your individual savings potential.



The savings options in detail

Notching tool: Lateral cut-outs on Industrial, PIK and Wire-tray Trunking are made at the touch of a button using the hydraulic notching punch. This can be equipped with various interchangeable cutting tools and combined with the static hydraulic unit or the mobile electro-hydraulic drive. When you purchase a notching tool, you will receive cable trunking worth **1,000 euros free of charge**.

MiniCut: The entry-level model for processing PIK-Trunking can be equipped with a manual hydraulic drive, a mains-powered or battery-powered hydraulic unit. The durable cutting plate is easy to regrind, which increases cost-effectiveness, and the infeed aid fitted as standard guarantees precise alignment of the cable trunking. When you purchase a MiniCut, you will receive cable trunking worth **2,000 euros free of charge**.

With the purchase of a notching tool free contingent of cable trunking worth **€ 1,000**



With the purchase of a MiniCut free contingent of cable trunkings worth **€ 2,000**



MultiCut: The all-rounder impresses with its precision and flexibility when processing PIK-Trunking or Industrial-Trunking. Depending on the drive – with manual hydraulic, mains or battery-powered hydraulic unit – it can be used as a stationary or mobile unit. Different cutting contours for different cable trunkings can be individually placed on a cutting plate. With infeed aid as standard. When you purchase a MultiCut, you will receive cable trunking worth *3,000 euros free of charge*.

MaxiCut: The PFLITSCH MaxiCut is used when maximum performance and highest convenience are required when machining Industrial-Trunking and PIK-Trunking. Mounted on a special workbench, it is ready for use both in the workshop and on site. Due to its size and performance, the MaxiCut is equipped exclusively with the powerful static hydraulic unit. When you purchase a MaxiCut, you will receive cable trunking worth *5,000 euros free of charge*.

Machines with added value

Regardless of the savings offered by the machine promotion, you will of course benefit from using PFLITSCH machines. This is because they stand for time- and cost-saving work with perfect cuts and clean edges that make reworking superfluous. In addition, waste is reduced thanks to optimised material usage. And finally, effortless and safe handling guarantees maximum safety. Further advantages of the machines include a wide range of applications, flexibility, location-independent use and optimum customisation to individual requirements with different drives and useful accessories. The machine promotion is now the ideal opportunity to benefit twice over: Take your cable trunking processing to a higher level of efficiency and enjoy a significant discount in the process.

Detailed information about the machines and tools is available at www.pflitsch.de/en

With the purchase of a MultiCut free contingent of cable trunkings worth **€ 3,000**



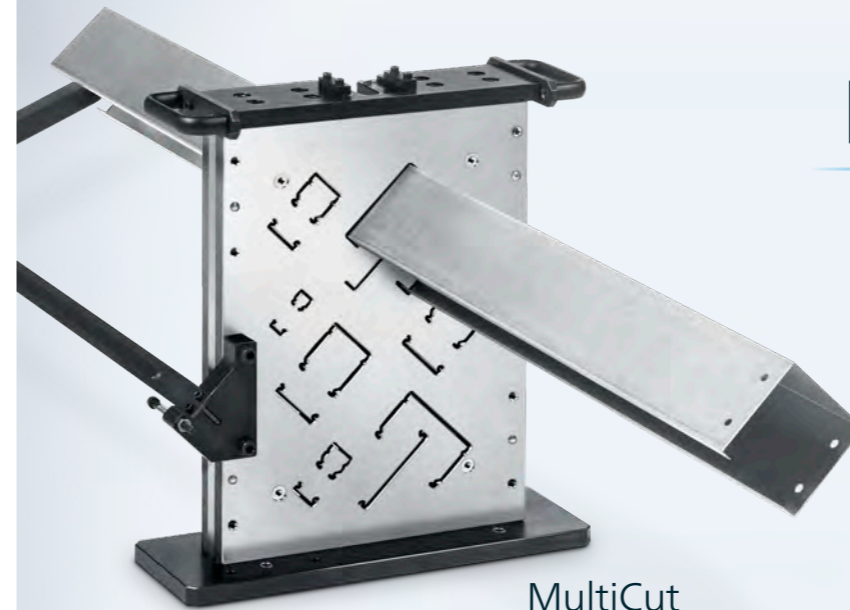
With the purchase of a MaxiCut free contingent of cable trunkings worth **€ 5,000**



BUYING



RECEIVING



MultiCut



SAVING

UP TO **3,000€***

THE BIG PFLITSCH MACHINE PROMOTION

FROM NOW UNTIL **01 JUNE 2025**

PFLITSCH makes it easy for anyone who wants to process cable trunking professionally and efficiently – with the machine promotion. If you buy a **notching tool**, a **MiniCut**, **MultiCut** or **MaxiCut** during the promotion period, you will receive a **cable duct contingent free of charge**.

* Savings when you buy a MultiCut. While stocks last.

Further Information



Best solutions for every application

PFLITSCH cable entries have been setting trends for decades

Tightness and strain relief have traditionally been decisive requirements for cable entries. Today, consideration must also be given to other application-specific criteria such as EMC, explosion protection, ease of assembly, sealing ranges and individuality. PFLITSCH, the inventor of the modern cable gland, has the perfect solution for a variety of industrial applications with its three series.

Whenever data and power cables are inserted into control cabinets and enclosures, the time is ripe for modern cable entries. The challenges to be met are immense: over the decades, PFLITSCH has come up with high-quality metal and plastic cable glands from M4 to M120 to enable thin fibre-optic cables to be sealed just as reliably as large cross-section power cables. They impress with high protection ratings and strain relief values as well as larger sealing ranges, gentle cable handling and much more besides.

Solutions are also available for fire protection in railway technology, hygienic pharmaceutical and food applications with EHEDG certification, EMC for automation or ATEX-certified explosion protection. Splittable cable glands such as the UNI Flange and UNI Split Gland are designed for modular systems in modern industry. Last but not least, the CABseal range provides safety and cost-effectiveness, for example when a large number of cables need to be inserted into control cabinets. This article presents selected product solutions that demonstrate the wide range of potential applications for these cable entries.



1 CABseal: Teamwork for up to 40 cables

If multiple cables need to be simply and reliably inserted into control cabinets, for example, users will have to look very hard to find a better solution than PFLITSCH's CABseal range. It impresses with its great flexibility, high IP 66 protection and easy assembly.

This cable entry system consists of four frames in different sizes – precisely matched to the most common standard cut-outs in control cabinets. CABseal frames can be equipped with a variety of cable grommets. Their tongue-and-groove contour ensures error-free assembly and high stability. Up to 40 max. 6 mm cables, for instance, can be reliably sealed using CABseal.

The mounting height of only 20 mm means it is ideal for space-saving installation. Flush grommets result in a completely closed surface with neither creases nor edges. Moulded lugs make it a simple matter to provide additional strain relief.



2 Plastic blueglobe: Quality meets quantity

The PFLITSCH blueglobe is the cable gland for the new millennium. Alongside brass and stainless steel variants, our polyamide types score with identical product features at significantly lower prices for standard applications.

The captive blueglobe sealing insert ideally centres the sum of the pressing forces evenly across a broad area of the cable when the pressure screw is tightened. The result: compliance with the exacting IP 66/IP 68/IP 69 protection ratings, excellent strain relief up to EN 62444 class B and a durable seal that provides exemplary cable protection.

Cable glands made from grey or black PA 6.6 are available in sizes from M12 to M63 for cross-sections from 2 to 53 mm. A removable inlet in the sealing insert lies behind this enormous diversity. The advantage for users is that cables with many different diameters can be reliably inserted with just one gland size.



3 LevelEx: Cost explosion protection

The PFLITSCH LevelEx is currently the most space-saving, easy-to-assemble solution among Ex-protected cable glands. This new Ex series consists of only 4 system components and convinces with a wide range of potential applications for Group II equipment with the "Ex d", "Ex e" and "Ex t" ignition protection types for gas and dust.

Its sealing elements have a captive design and cannot be lost during assembly. When the pressure screw is tightened, the seal is deformed over a large area and achieves excellent tightness with IP 66 or IP 68 protection. The strain relief values are likewise above average thanks to the PFLITSCH concept.

The LevelEx is available in sizes M16 to M75 with NPT threads from 3/8" to 2 1/2". Cables from 7 to 66 mm can be securely sealed. With its large temperature window from -60 °C to +130 °C, the LevelEx is also suited in extreme environments and temperatures, which are the norm in off-shore applications, deserts or the polar regions.



4 UNI elbow cable glands: The perfect way to negotiate bends

With its wide range of application-specific sealing inserts, the UNI elbow cable gland belonging to the PFLITSCH UNI Dicht modular system is a simple, safe and reliable solution for inserting cables into an enclosure at a 90° angle. It prevents the cables from kinking, e.g. at terminal boxes.

These right-angled gland bodies made of die-cast zinc or PC plastic are available with a metric or Pg thread. A coupling allows users to turn the angled components through 360° for routing in any direction. The design ensures types of protection up to IP 68 as well as very high strain relief. PFLITSCH offers various standard sizes from M16 to M25 for cables from 4 to 15.5 mm in diameter.



5 UNI Dicht: Ideal solution with product variants

Thousands of made-to-measure solutions can be easily put together by users from the UNI Dicht modular system in sizes M4 to M120 and with a metric, Pg, Imperial or NPT thread. A suitable product exists for every application because the brass, stainless steel, zinc or high-quality plastic gland body can be combined with numerous different sealing inserts.

Sealing inserts are available for cable cross-sections from 0.9 to 110 mm. Types are also offered for flat cables and special contours. Multiple inserts allow multiple cables to be routed safely through a single cable gland in order to save space. Split sealing inserts can be supplied for pre-assembled cables. Combinations with various protective hoses and corrugated conduits are possible, as is integrated bending protection, strain relief, EMC and explosion protection.

The UNI Dicht system scores every time with high types of protection up to IP 68 or IP 69 as well as excellent strain relief.



6 blueglobe: A "plan b" that always fits!

The PFLITSCH blueglobe allows a broad sealing range to be covered with just one size of cable gland. For users, this means fewer different sizes are required – a considerable advantage in applications where it is not yet clear which cable cross-sections will actually be installed by the customer on site.

The captive, round sealing insert has either a single or a multiple inlet, meaning that the sealing range per size can be significantly increased. Simply remove the excess ring from the sealing insert using a screwdriver to add several valuable millimetres to the sealing range. Substantial savings can be achieved in this way because storage costs, ordering work and assembly time are reduced.

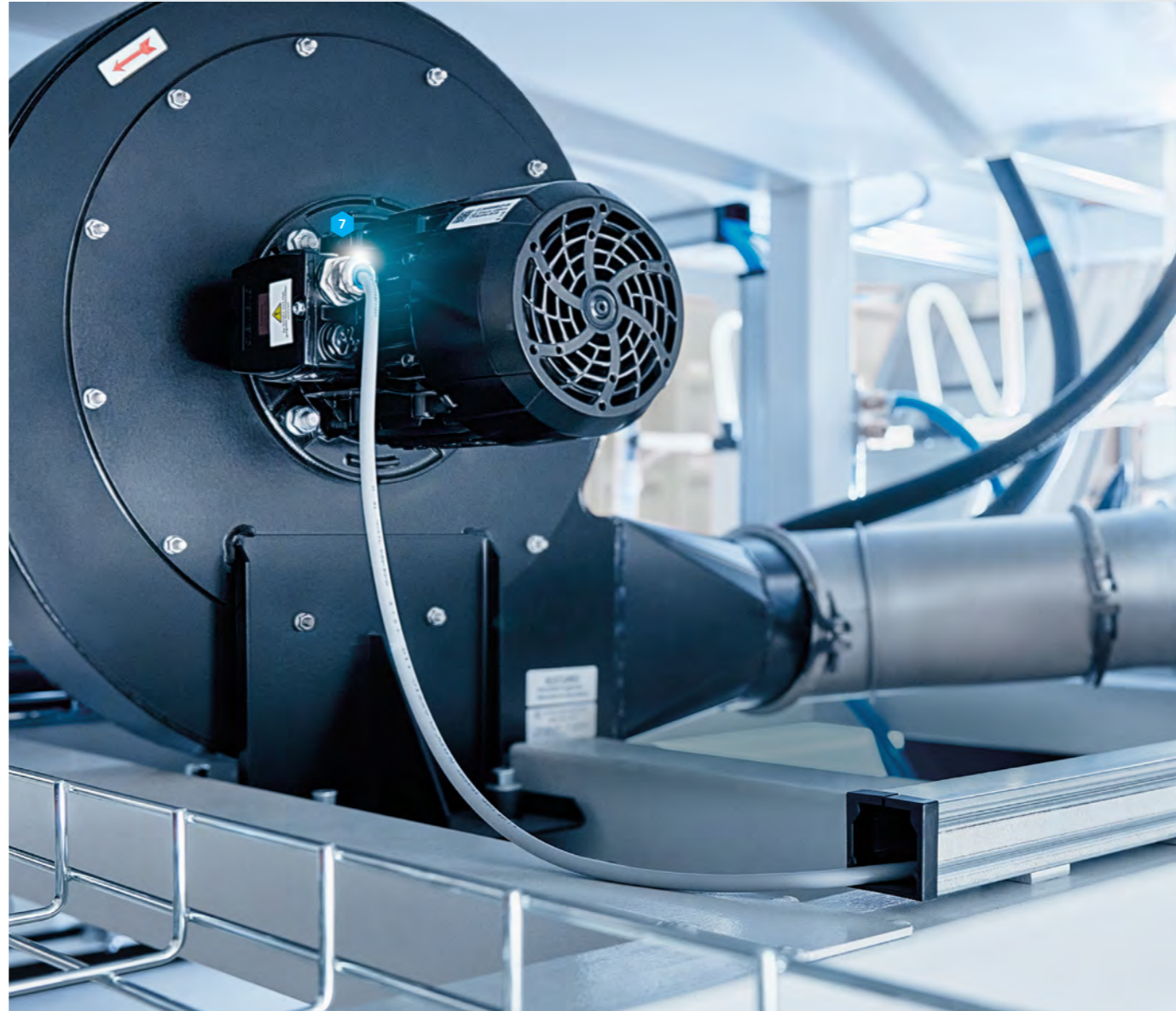
PFLITSCH manufactures the blueglobe from brass, stainless steel or high-quality polyamide in sizes M8 to M85 for cable cross-sections from 3 to 77 mm. Compliance with the very exacting IP 66/IP 68/IP 69 protection ratings, excellent strain relief up to EN 62444 class B and a durable seal that provides exemplary cable protection make this product unique.

7 blueglobe TRI: Getting along fine!

The challenge for any shielding concept is to protect sensitive components in complex, interconnected systems from interfering electromagnetic signals. PFLITSCH EMC cable glands with the TRI contact spring are the best solution here. This concept is offered with the PFLITSCH blueglobe, UNI Dicht, LevelEx and Cleanplus series.

The shielding braid only needs to be exposed by the user at the contact point. The braiding itself remains intact and can be routed up to the connection point in the control cabinet. As the cable is pushed into the gland, the TRI spring wraps itself tightly around the braid, ensuring 360° contact – even with out-of-round cables.

The TRI solution provides above-average attenuation values into the GHz range as well as high current-carrying capacities. In other words, users profit from maximum system safety.



8 UNI Multiple: One more, please!

PFLITSCH'S UNI Multiple is the perfect solution for routing multiple cables easily and safely through a single cable gland. That saves users a lot of space on enclosures such as industrial connectors.

PFLITSCH can also create the customer-specific hole patterns with different holes at an affordable price. Alternatively, users can request closed sealing inserts that simply have to be drilled out. Any unused holes can be sealed with plugs. Slit versions are likewise available for installing pre-assembled cables.

Multiple sealing inserts are easy to combine with gland bodies in sizes M6 to M120 from the UNI Dicht modular system, depending on the application and requirements. Made from high-quality TPE-V, these inserts are designed for operating temperatures from -40 °C to +135 °C and achieve high types of protection from IP 65 to IP 68.

PFLITSCH GmbH & Co. KG

Ernst-Pflitsch-Straße 1 · 42499 Hückeswagen · Germany
T +49 2192 911-0 · info@pflitsch.de · www.pflitsch.de

Subject to technical modifications without notice. Errors excepted.

Some of the product names used in this brochure are registered trademarks. You can find an overview of the trademarks owned by PFLITSCH GmbH & Co. KG and that apply at least within Germany at www.pflitsch.de/en/imprint.

All previous and older versions shall cease to be valid upon publication of this brochure. We invite anyone interested in our products to contact us. Should you do so via the communication channels cited in this brochure and on our website, such as our telephone number or e-mail address, we ask you to take note of our declaration on data protection under the header "Privacy Policy" on our website www.pflitsch.de/en.