



indoor.

motion plastics® solutions for
indoor crane manufacturers and users

plastics for longer life® igus

cranes

... www.igus.eu/indoorcranes

Reduce costs ...



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igus® energy chain® solutions for indoor crane manufacturers and users.

Whether single girder or double girder cranes, roller or box girder section cranes, as well as overhead travelling, ceiling or boom cranes, igus® offers the ideal energy supply solution for all requirements with flexible chainflex® cables as an alternative to bus bars, festoons or motor drums. The space-saving igus® energy chain system made of high-performance plastics for trolley drive can be mounted either directly to the crane girder or on top of it easily and safely.

The main advantages of using igus® products:

- Space-saving design, higher clearance tolerances
- No additional drives or steel structures are necessary
- No control system is necessary
- Synchronous run of trolley and energy chain system
- Quick and easy assembly (guidefast guide trough)
- Replacement and/or installation of cables is possible quickly and easily
- High-speed data transmission using fibre optic cables (FOC)
- All media types guided in one system: energy, data, gases, fluids
- Easy maintenance lowers your downtime
- No spare parts
- Spare part guarantee for ten years and more
- TÜV tested

With more than 100,000 igus products from stock, every customer can find the right solution. Injection moulding and mass production guarantee a cost effective solution for all motion plastics® applications, from rugged energy supply systems and flexible cables to lubrication- and maintenance-free plain bearings.

Our online tools also enable you to reduce process costs. igus® delivers from stock in 24-48 hours! Also visit our industry website

 www.igus.eu/indoorcranes

We look forward to your call or email.

... Improve technology ...



Without e-chainsystem®




With e-chainsystem®

e-chain® solutions for indoor cranes. Advantages compared to the example of festoon or bus bar systems.

- Compact installation
- A loop station is not necessary, the trolley is able run on the full beam length!
- No down hanging cable loops!
- e-chainsystems® reduces cable lengths by more than 50% (center feeding)!
- e-chainsystems® prevents the cables from any external mechanical stress, i.e. uncontrolled whipping, swinging, getting stuck
- Easy and quick to assemble
- Short cable lengths, very well suited for bus systems and FOC
- Every type of energy, data and media can be guided (motor and control cables, hydraulics, pneumatics, etc.)
- Low maintenance necessity will reduce your crane downtimes
- Quick and easy installation of additional cables
- e-chainsystems® for speeds up to 10 m/s
- e-chainsystems® make travels up to 800 m possible
- Synchronous run of trolley and e-chainsystem®
- Spare part guarantee for ten years

... with motion plastics® from igus®.

igus® products for indoor cranes



1

guidefast
Trough for quick and easy side mounting on the crane girder of standard indoor cranes.
www.igus.eu/guidefast



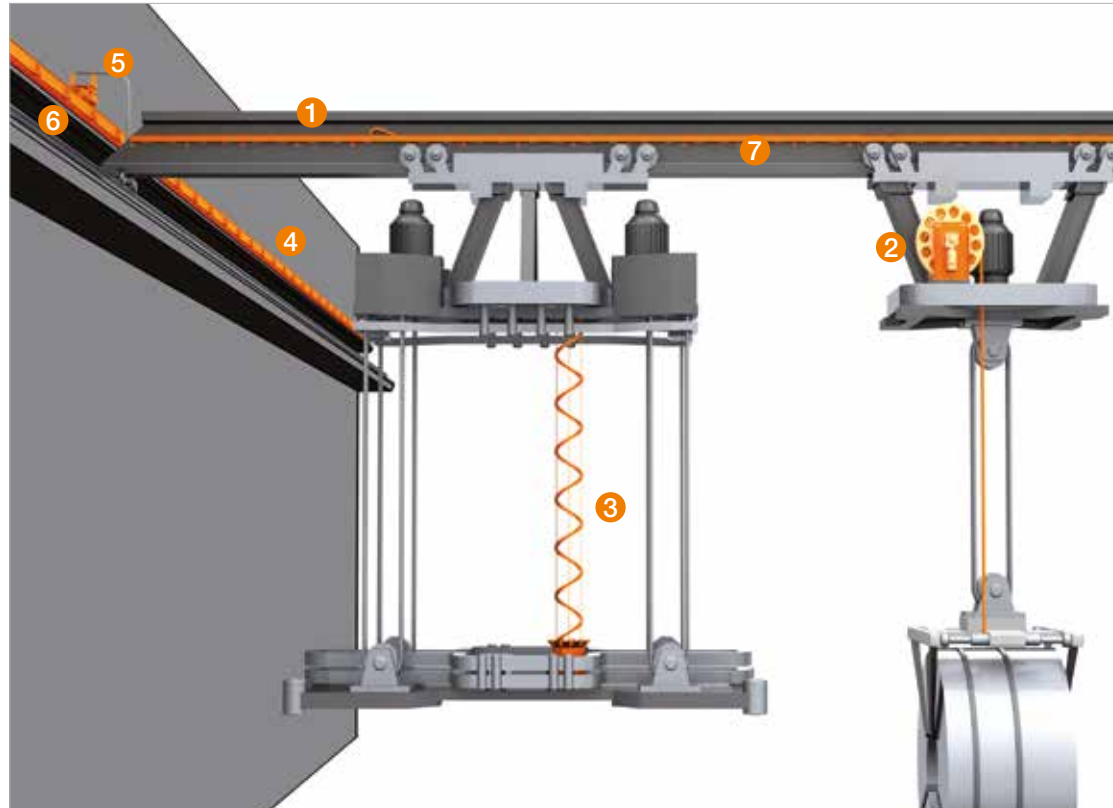
2

e-spool
The alternative to a cable reel - reduce cable wear and reliably guide different media
www.igus.eu/e-spool




3

liftband
Up to 13 m for vertical applications as an alternative to the zig-zag solution.
www.igus.eu/liftband




4

Heavy duty rol e-chains®
Reduce drive output for long travels by up to 57% by rolling (instead of sliding).
www.igus.eu/role



5

Floating moving end
The floating moving end provides compensation and as a result, a force-free run of the energy chain® into the guide trough on moving arms with strong lateral offset
www.igus.eu/FTA



igus
chainflex
guarantee

chainflex® cables
Highly flexible chainflex® cables for energy supply systems. Fail-safe for all indoor crane applications. Meets standards and guidelines such as NFPA 79, UL, CSA, VDE, Interbus and Profibus.
www.igus.eu/chainflex



7

e-chain® E2/000
Light and versatile e-chains®. Easy assembly, high level of stability paired with quiet operation, long cable life and a wide variety of mounting options.
www.igus.eu/E2000



6

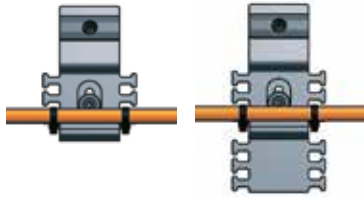
Aluminium-trough system
Removable aluminium trough system for applications ranging from basic to heavy duty.
www.igus.eu/s-alu

Quickly assembled to the crane girder



guidefast trough – for crane girders on standard indoor cranes.

- Up to 80% less assembly time
- Fits virtually any standard crane girder
- Suitable for any side-mounted application – not only on cranes
- Simplified electrical hook-up, fixed installation
- Permanently installed cable can be fixed to the trough brackets
- Less abrasion: Optionally available with plastic glide bar
- Very low weight



Version 01 - short bracket

Version 02 - long bracket

 www.igus.eu/guidefast

Suitable chainflex® range of cables from stock, also assembled with connectors



lightweight and chemical resistant

Modular polymer guiding system: guidelite plus

The guidelite plus guide system is a guide trough enclosed on both sides and made entirely of plastic components. Very quick and easy to install, save costs twice in terms of installation costs and the purchase price.

- Resistant to chemicals and corrosion
- Time saving due to fast installation
- Low weight, lighter than guide troughs made of metal
- Considerably less expensive than a comparable stainless-steel trough



 www.igus.eu/guidelite

Suitable chainflex® range of cables from stock, also assembled with connectors



Aluminium troughs light and cost effective

Aluminium guide troughs – heavy duty version for crane systems

- Heavy duty version of the construction kit system
- Very simple, modular assembly
- Side-mounted glide strips for wear protection at high-speed
- Corrosion resistant, seawater resistant aluminium profile
- Flexible assembly - Fastening on substructure independent of profile lengths and butt joints
- Interface connector – plastic with snap mount
- Plastic glide bar made of high-molecular-weight PE
- Trough can be fixed directly to the surface or on a C-profile - inside or outside of the trough
- Glide pads and a rubber profile that can be inserted for minimizing operation noise
- Heavy duty bracket for a secure hold even in demanding applications
- U-profile for mounting the trough or mounting bracket



Suitable chainflex® range of cables from stock, also assembled with connectors

 www.igus.eu/s-alu



Conductive in accordance with DIN EN 61537

Steel guide troughs – Quickly and easily assemble the suitable guide trough for your application

- Very stable and robust guide trough made of steel
- Easy assembly due to installation set for joint and attachment surface connection
- Easy mounting directly to the base of the U-profile
- Large selection, 2-piece, easily adjusted to the chain width
- Available in galvanised steel and stainless steel (Materials: 1.4301, 14404, 14571)
- Plastic glide bar made of PE
- Side parts are assembled and mounted to the support with the corresponding distance
- Fixed end module option, for fast and easy mounting - without any drilling available
- Conductivity according to DIN EN 61537 - standard



Optional: available with specially reinforced mounting bracket. For particularly harsh, environments!

 www.igus.eu/guides



The alternative to a cable drum ...



e-spool modular construction kit – The alternative to a cable drum: reduce cable wear and reliably guide different media

- No tensile load on the cables
- Different media and diameters possible in one reel
- Energy supply possible in all directions (horizontal, vertical, diagonal ... everything works with one chain)
- Space-saving - no "chain festoons"
- No lower run remains, paths remain unobstructed
- Cable diameters up to 19 mm

 www.igus.eu/e-spool

Suitable chainflex® range of cables from stock, also assembled with connectors



Reduced space ...



liftband – For vertical applications up to 13 m height.

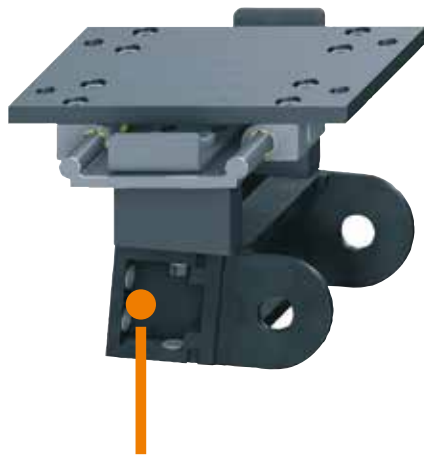
- Alternative to zig-zag solution
- Lighter and smaller installation space
- Vertical applications implemented with ease
- Speeds up to 1 m/s
- Acceleration up to 2 m/s²
- Max. extension length 13 m
- Cable bend radius up to 250 mm

 www.igus.eu/liftband

Suitable chainflex® range of cables from stock, also assembled with connectors



Compensate offset ...



Compensate for errors in parallelism

The igus® compensator for gliding applications. The floating moving end provides compensation and as a result, a force-free run of the energy chain into the guide trough on moving arms with strong lateral offset. This ensures that the service life of your application is extended.

- Small, light and affordable
- Compatible with PPDS basic analysis unit
- The basic "floating moving end" can be used with the following chain series: 2500, 2700, 3500, E4.28, E4.32, E4.42
- Maximum travel distance: 100 m

 www.igus.eu/FTA



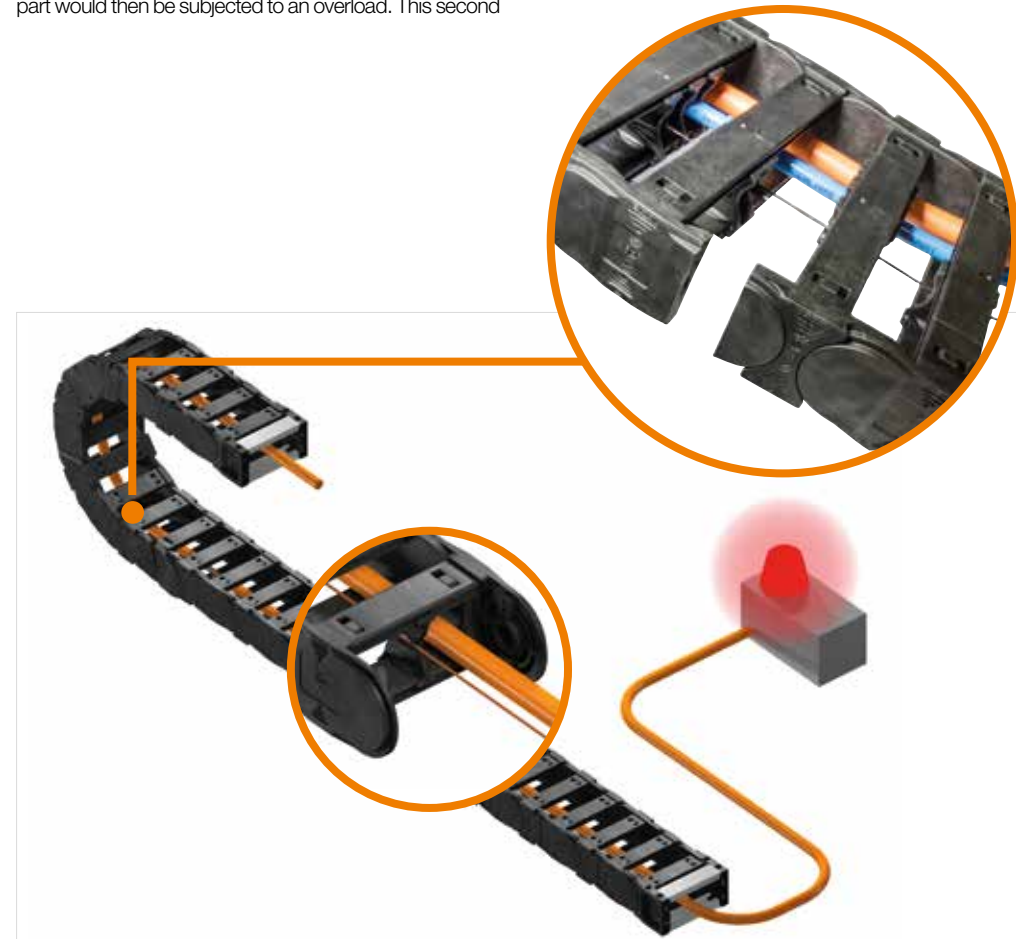
Electronic diagnostic tool

Trigger an alarm in the event of an e-chain® component defect

The EMA system is an electronic diagnostic tool that displays necessary maintenance tasks to prevent system damage as well as downtimes. Foreign objects, such as a tool box, for example, that fall onto the e-chain®, or other e-chain® overloads can lead to a side part breaking. This breakage is then signaled to an analysis unit via a sensor polymer wire to ensure that the second side part does not break which would result in a standstill. Without the EMA, the e-chain® would continue to run and the second side part would then be subjected to an overload. This second

side part would also break after a short time and result in the system coming to a standstill. The maintenance signal allows you to monitor the system and change the chain link at the next possible time. The "EMA system" can also be combined with the igus® PPDS.

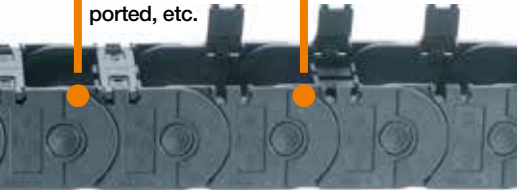
 www.igus.eu/EMA



Long travels ...

For all installation types: suspended, upright, unsupported, etc.

Long gliding travels up to 150 m



Save drive power using rolling movements

Long rolling travels of 150 m and more



Suitable chainflex® range of cables from stock, also assembled with connectors

The versatile one – System E2/000

The E2/000 system symbolises easy and versatile installation combined with ruggedness - high stability combined with low-noise operation, long service life for cables and many mounting options. Mechanical engineers all over the world rely upon this range. The design is consistent within all E2/000 variants. It is the standard product range for indoor crane manufacturers around the world.

www.igus.eu/E2000

Implement long travels in an energy-efficient and cost-effective way – E2/000 rolling e-chains®

- Required drive power is reduced up to 57 % while increasing the service life of the e-chain®
- Speeds up to 2 m/s
- Available as a ready-to-install, assembled system
- System with many accessory parts

www.igus.eu/E2000-rol



... energy-efficient

One e-chain® series for almost any application – System E4.1

The system E4.1 combines all advantages of previous three versions and is the best igus® e-chain® in the product range. The series E4.1 is more stable at the same or even smaller dimensions than the previous versions. Almost all accessory components and mounting dimensions are identical. You can increase the service life of your application again with the igus® system E4.1 while lowering costs!

www.igus.eu/E4-1

Lower drive power for moving energy chains – E4.1 standard system as a rolling e-chain®

- Very quiet operation thanks to the profile rollers
- Even distribution of the profile rollers and normal chain links as well as "ramps"
- Energy-efficient – reduce drive power by up to 57%
- Max. speeds: 10 m/s

www.igus.eu/E41-rol

For all installation types: suspended, upright, unsupported, etc.

Long gliding travels up to 400 m



Save drive power using rolling movements

Long rolling travels of 600 m and more



Suitable chainflex® range of cables from stock, also assembled with connectors



...rolling...quiet...quick... 800 m



Profile roller e-chain®: For very high fill weights and speeds

Reliable, quiet, abrasion-resistant and energy-efficient on very long travels up to 800 m and more. igus® P4 – profile rolling e-chains® for very high filling weights and speeds. Increase energy efficiency and lower energy consumption with the P4 e-chainsystem®.

 www.igus.eu/P4



rol e-chain® - rolling instead of gliding

The igus® rolling e-chain® is ideally suited for applications in which long travels with high speeds must be implemented. Travels of over 800 m or extreme travel speeds of up to 10 m/s with cable loads of up to 50 kg/m are possible.

 www.igus.eu/role

Suitable chainflex® range of cables from stock, also assembled with connectors



... Heavy Duty ... ESD ... etc ...

Heavy duty – highly-stable e-chains® for the highest loads

igus® HD e-chains® have been developed specifically for the highest loads and long travels. Up to 20% higher tensile strength than comparable igus® series. Extremely torsion-resistant and wear-resistant thanks to large sliding surfaces.

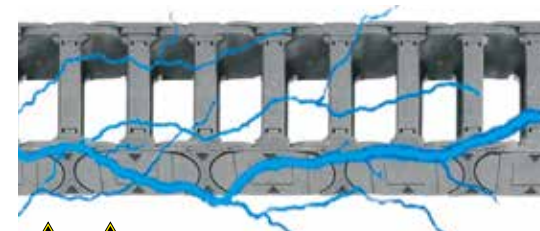
 www.igus.eu/heavyduty



ESD & ATEX – e-chains®

- ESD material tested with over 10 million cycles for the highest requirements
- Snap-open e-chains® with mounting brackets and interior separation in ESD and ATEX version available from stock.
- Standardised product - igumid ESD with PTB certificate
- Proven over years of use in ATEX areas
- Short delivery times: 24h from stock

 www.igus.eu/ESD



Suitable chainflex® range of cables from stock, also assembled with connectors



Torsional & circular motion ...

... on the trolley



The igus® system for fast rotary applications as a standard product

The rotary module consists of two circular guide elements. One part of the guide trough is attached to the static part of the system and the other part to the rotating part of the system. Because the rotary modules can be turned in both their inner and outer parts, the fixed end for the e-chains® can be chosen freely. The e-chains® from the E4.1 series are used for the rotary modules.

- Maximum angle of rotation in minimum installation space
- Rotating speed up to 360°/s
- Lighter and more compact than static guide troughs
- Minimum displacement forces and maximum service life due to divided guide trough
- Modular construction with standardised mounting variants
- Integrated strain relief and cable guides in guide trough

 www.igus.eu/RBR



Zig-zag solutions ...

... for reliable vertical application guidance

Modular, silent, space saving - vertical guidance for energy, data and media.

The modular design of igus® e-chains® facilitates this space-saving and unconventional solution. It is necessary to reliably guide a wide variety of cables in the vertical movement for many crane applications. Lack of space in particular almost invariably presents difficulties. The photo above shows an e-chain® in a zig-zag configuration. The "folded" e-chain® is stored in a custom-made basket in the platform below. If the platform is raised, the e-chain® unfolds, generating little or no noise. Please consult igus® for these kinds of applications.

 www.igus.eu/zigzag

Zig-zag application:



Improve technology ...

Nearly all existing cranes can be converted from conventional systems – to igus® e-chainsystems®.



Rotating applications solved with igus® RBR systems ...

... reduce costs

solutions – festooning, motor cable drums and bus bar



... rotation angle up to 540° and more possible



e-chainsystems® assembled on the crane girder



e-chainsystems® at the end of the beam



Gliding e-chainsystems® in harsh environments



High loads as a result of brick dust

Improve technology ...

Nearly all existing cranes can be converted from conventional systems – to igus® e-chainsystems®.



liftband, for vertical applications

... reduce costs

solutions – festooning, motor cable drums and bus bar



Assembly crane, zig-zag solution



E4 e-chainsystems® in a steel guide trough on a long travel



Save drive energy through rolling e-chains®



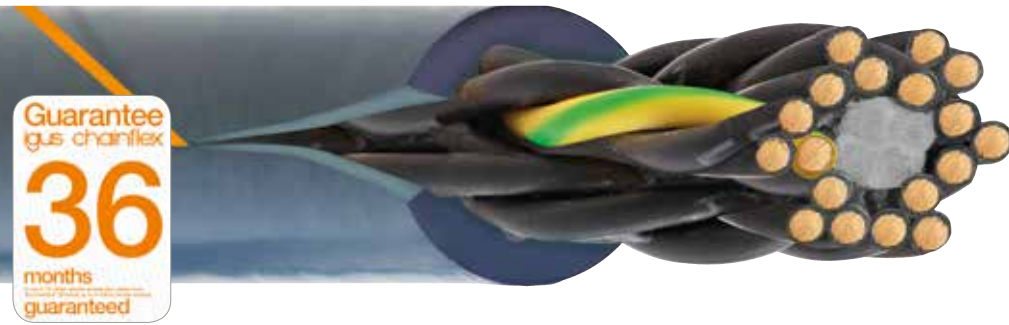
High reliability despite extreme levels of contamination



Very long travel on a crane, guided reliably in igus® trough systems

Cable design ...

More than 1,040 igus® cables from stock

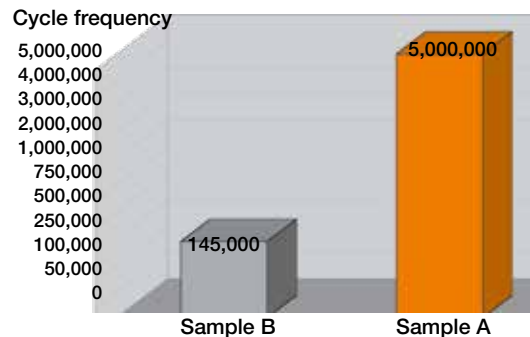


More than 1,040 chainflex® cables for use in e-chainsystems®

- Wear resistant TPE, PUR and oil resistant PVC outer jackets
- Halogen free and/or flame retardant materials
- Smallest bend radii down to 4 x d
- 36 months guarantee for chainflex® cables acc. to igus® guarantee specifications
- Various approvals and conformities



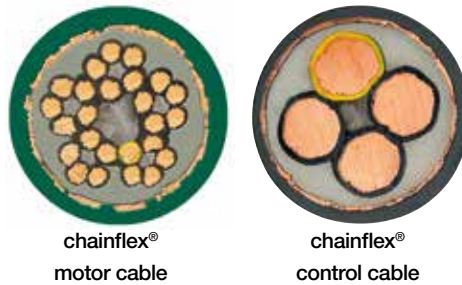
Tested! Tested! Tested!



Corkscrew after 145,000 double strokes (Sample B)



igus® CF27: no wear, even after 5 million double strokes (Sample A)



www.chainflex.eu



Order your personal catalogue: www.igus.eu/catalogue

... chainflex® for indoor cranes

Overview of chainflex® cables for the crane industry

Single core CF330.D and CF340



The halogen-free TPE individual connectors for extra high levels of mechanical stress on cranes and in installation

- UV-resistant outer shell
- Oil and bio oil resistant
- Flexible at low temperatures
- PVC-free/halogen-free
- 0.6/1kV nominal voltage
- Bend radius in the e-chain®: 7.5 x d

Halogen free motor cables CF37.D and CF38



The halogen-free TPE-power line for extra high levels of mechanical stress on cranes and in installation

- UV-resistant outer jacket, gusset-filled extruded
- Oil and bio oil resistant
- Bend radius in the e-chain®: 7.5 x d
- 0.6/1kV nominal voltage
- PVC-free/halogen-free
- Flexible at low temperatures

Four-core motor cable CF30, CF31m CF34.UL.D and CF35.UL



Shielded motor cable for inverter function up to 600/1000 V and up to 70 mm²

Single core motor cable CF300.UL.D and CF310.UL



Shielded and unshielded single core motor cables for demanding requirements

Fibre optic cables



Fibre-optic cable (62.5/125 or 50/125), 2, 6 or 12 cores – all fibre-optic cables are tested for several million reverse bends.

Single-core motor cable



Shielded, highly flexible single cores for medium voltages of up to 6/10kV for the highest requirements in crane construction, heavy engineering, etc.: 1 x 25/16 to 1 x 95/16 cross section

Data cables, e.g. CF211, CF240, CF11



chainflex® data cables are available for all throughput data systems in e-chain® applications. Even for large cross-sections, e.g. at 3 x 2 x 2.5 mm², or with voltage carrying connecting cores inside a cable.

Control cables, e.g. CF5/CF6, CF9/CF10



PVC, PUR, TPE – a broad product range is available for any application – shielded and unshielded cables and a large number of cross-sections and core types.

As assembled system ...

readychain®: chain - cable - guarantee ... delivered in 3-10 days



readychain® – fully harnessed systems in 3-10 days

1,000 systems produced per week in 12 readychain® factories around the world – assembly time optimised to increase your cash-flow

- Eliminate storage costs for cables, e-chains® and connectors
- Cut turnaround times by half
- Flexibility when orders vary
- Reduce the number of suppliers and orders by 75%
- Minimise your machine downtimes
- System guarantee - depending on application

www.readychain.eu

Assembled igus® readychain® systems: individual or serial production

readychain® assembly rack

Save 80 % at prototyping. Assembly transport rack for ready-to-install energy supply systems.



readycable®: harnessed drive cables ... in 24-48h



readycable®

igus® provides more than 3,200 harnessed cables for drive technology to 22 different manufacturer standards. Professionally produced, 100% tested.

www.readycable.eu

Installation ...

Save time and money on maintenance and installation of your energy chain systems®

Design, harnessing, delivery up to complete assembly of energy chains® with all components.

Machines must work reliably and without problems. This requires reliable energy chain systems and cables, which guarantee a long service life and a quick service, by which machine downtimes can be avoided or reduced in case of emergency.

www.igus.eu/assembly

Our service:

- Predictable fixed cost for the installation, maintenance or inspection of energy supply systems on your system
- Fast and accurate installation and maintenance of all components by qualified specialists
- Minimal down time
- Products and services (energy chains®, cables, strain relief, guide troughs, etc) from a single source – less logistics costs for you
- igus® system guarantee



New installation



Upgrades / Replacement



Chain monitoring



Repairs

More products of the ...

Lubrication- and maintenance-free ...

iglidur® plain bearings

- Media-resistant
- Temperature-resistant
- Corrosion free
- Very low weight
- Foodstuff compatible
- Special dimension and designs available
- Predictable service life

 www.igus.eu/iglidur



igubal® spherical bearings



igubal® spherical bearings

- Self-aligning bearings components
- Easy to install
- Adapt to all angle variations

 www.igus.eu/igubal

drylin® shafts



drylin® shafts

- 8 different shaft materials
- Aluminium for low weight
- Round or supported
- Stainless steel for high corrosion resistance
- Dynamic and metal-free with carbon
- Individual processing is possible

 www.igus.eu/drylin-shafts

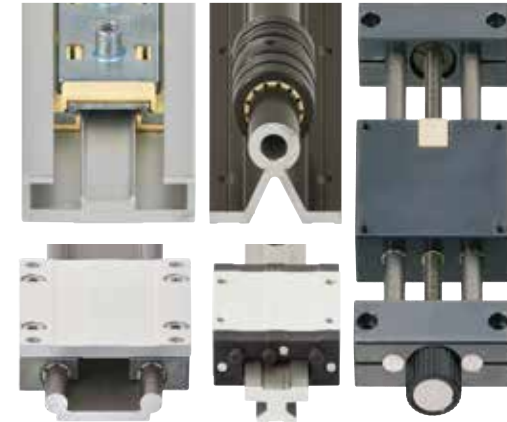
... igus® motion plastics® range

... cost-effective, online calculation available

drylin® linear and drive systems

- Dimensionally interchangeable with standard recirculating ball bearings
- Resistant to corrosion and chemicals
- Resistant to dirt
- Low weight enables highest cycle numbers and maximum acceleration rates
- Resistant to impacts and vibrations, quiet
- Predictable service life

 www.igus.eu/drylin



drylin® lead screw technology



drylin® lead screw technology

- dryspin® technology: Higher efficiency due to optimised thread angle
- Self-locking trapezoidal and metric threads
- Lead screw nuts made from 5 iglidur® materials

 www.igus.eu/leadscrew-technology

xiros® polymer ball bearings



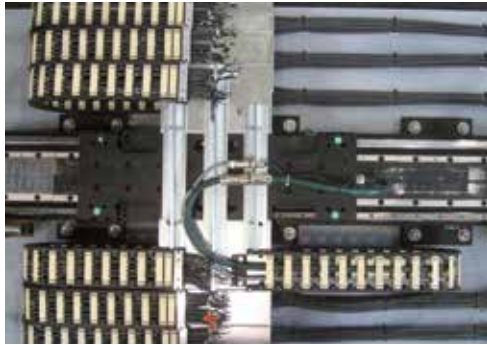
xiros® polymer ball bearings

- High chemical and corrosion resistance
- For temperatures up to +150°C
- Non-magnetic
- Low weight

 www.igus.eu/xiros

Tested! Service life ...

igus® chainflex® cables for e-chainsystems®. 2,700 cables tested per year. 58 test facilities. Tested, tested, tested ... For example:



Test 4003:
Data cable
65 million strokes tested

Data cable CF113 tested in the e-chain®. More than 65 million strokes with a bending factor of 5.4 x d.

www.chainflex.eu/test4003



Test 4011:
Fibre optic cables
50 million strokes tested

Control cable CFLG.2LB tested in e-chain®. More than 50 million strokes with a bending factor of 4.2 x d.

www.chainflex.eu/test4011



Test 2233:
Control cable
41 million strokes tested

Control cable CF5.10.25 tested in e-chain®. More than 41 million strokes with a bending factor of 5.3 x d.

www.chainflex.eu/test2233



Test 3089:
Control cable
76 million strokes tested

Control cable CFBUS.045 tested in e-chain®. More than 76 million strokes with a bending factor of 9.4 x d.

www.chainflex.eu/test3089

... predicted accurately.

Tested at the 2,750 m² Cologne lab. 4,100 tests, 7,512 findings added to the electronic database, 10 billion e-chains® cycles per year for chains and cables.



Part of the igus® laboratory, Cologne.



Continuous operation and wear tests on short and long travels



Determining the maximum e-chain® sag, as a "chain-in-chain" solution in this example



Cold test at -40 °C for chainflex® cables and e-chains®



Polymer bearings technology: tested a thousand times ... under real conditions



Visit our industry web pages for more information, products, application examples and useful online-tools.

www.igus.eu/indoorcranes



Quickly find and configure products and calculate service life – all online.

Using our online product finders, you can find the right igus® product and get a service life prediction.

www.igus.eu/online

For any task – in any batch size

Different industries need different solutions. Whether in mechanical engineering, automotive manufacturing or in the robot industry – igus® offers customised support for specialised applications. igus® already has many years of experience and specialised resources for many industries

www.igus.eu/industry



The igus® delivery service

Over 97% availability of all catalogue parts – no need for you to hold stock

- Over 100,000 products from stock
- No minimum order value
- No surcharges for small quantities
- No costs for cutting cables
- No packaging costs

www.igus.eu/24



Modern injection moulding technology

The igus® GmbH quality policy is based on the objective of identifying and meeting customer needs, and of always being a professional partner and reliable supplier. igus® has always been committed to producing products of the best possible quality and consistently developing innovative solutions.



The igus® lab

The industry's largest test lab (2,750 m²) conducts more than two billion test cycles per year on a total of 107 test rigs.

- Extensive test databases
- Customised tests on request

www.igus.eu/test

igus® motion plastics®

One vision has been driving us for more than 50 years – motion plastics®: moving parts made of plastic that cost less and last longer. Our core technology consists of tribo-polymers – high-performance plastics, which we have optimised for friction and wear. The technology has made us into a world leader for developing and manufacturing energy supply systems and plain bearings.



igus® worldwide

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