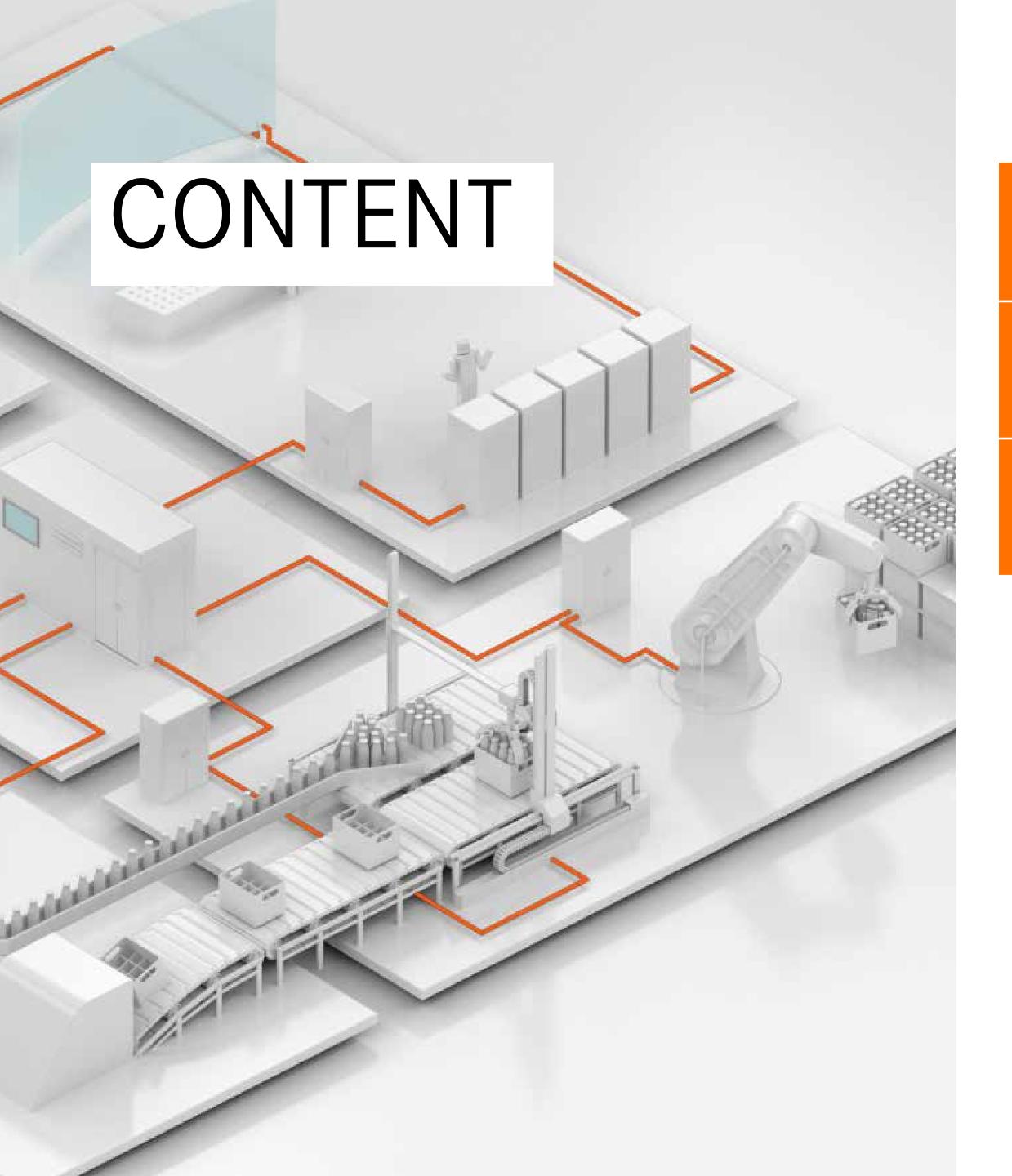
Webguide New Products July 2021





MACHINE AND PLANT ENGINEERING: Cables and accessories for machines and plants:

at page 3

DATA TRANSMISSION ETHERNET TECHNOLOGY:

Your highway for big data

a perfect match

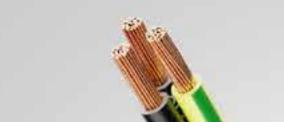
at page 16



STORAGE, TRANSPORT, PROCESSING:
Our smart transport and logistics solutions

at page 20





MACHINE AND PLANT ENGINEERING

CABLES AND ACCESSORIES FOR MACHINES AND PLANTS: A PERFECT MATCH

CHRESTCALSCH 301/5

NEW: Summer 2021

ÖLFLEX® CLASSIC 115 CH

Halogen-free cable, CPR, increased oil resistance, for building wiring.

₽ ÖLFLEX® CLASSIC 128 H BK SC

Halogen-free cable, single core, CPR Cca, for building wiring.

ÖLFLEX® SERVO 719 CY

Shielded PVC servo cable, for fixed installation, North America certification.

ÖLFLEX® SERVO 728 CY

Shielded PVC encoder cable, for fixed installation, North America certification.

ÖLFLEX® SERVO FD 798 CP

Shielded PUR encoder cable, for drag chain, North America certification.

ÖLFLEX® SERVO FD 7DSL

Hybrid servo cable, for drag chain and special One Cable Solution interfaces.

ÖLFLEX® SERVO FD 70CS

Hybrid servo cable, for drag chain and different One Cable Solution interfaces.

№ H05Z-K 90 °C

Halogen-free single core <HAR> according to H05Z-K, on coil.

№ H07Z-K 90 °C

Halogen-free single core for control cabinet <AR> according to H07Z-K, on coil.

Tube cable lugs KRFS

Cable lug with narrow connection flange, for crimping, UL-certified.





CABLES AND ACCESSORIES FOR MACHINES AND ENCLOSURES: A PERFECT MATCH



ÖLFLEX® CLASSIC 115 CH

A true all-rounder! The ÖLFLEX® CLASSIC 115 CH combines many properties that are important when using a halogen-free cable. The applied materials used convince with high electrical safety, high flame resistance, cold flexibility and extended oil resistance. The cable does not require an inner jacket and is therefore particularly space-saving.



ÖLFLEX® SERVO 719 CY

New articles available: Our proven servo cable with UL certification for use in North America now includes 4 new variants that differ from the previous ones in terms of structure and conductor cross-section. This means that additional servo motor sizes can be operated. The shielded PVC cable is used for fixed and occasional flexing.



ÖLFLEX® SERVO FD 798 CP

New articles available: The shielded, green encoder cable with UL certification for use in North America is compatible with feedback systems from various manufacturers. With its highly flexible cable construction and robust PUR outer sheath, it is suitable for dynamic drag chain applications. It is now available in two new cable construction variants.



ÖLFLEX® CLASSIC 128 H BK SC

With this halogen-free single core power cable with high CPR classification, special emphasis was placed on a smart choice of materials. It is more flexible than a standard installation cable, e.g. N2XH and can be optimally used for building cabling. It fits perfectly into our existing portfolio of halogen-free cables as a low-cost single core cable.



ÖLFLEX® SERVO 728 CY

New articles available: The shielded, green encoder cable with UL certification for use in North America is compatible with feedback systems from various manufacturers. With its PVC outer sheath, it is suitable for fixed and occasional flexing. It is now available in two new cable construction variants for further encoder system standards.



ÖLFLEX® SERVO FD 7DSL

New articles available: The hybrid servo cable is compatible with the single-cable technology interfaces HIPERFACE DSL® and SCS open link. It is used for simultaneous power supply, signal and data transmission and is suitable for moving applications as well as for dynamic drag chain use due to its high flexibility and PUR outer sheath. It is available in three new cable construction variants.



CABLES AND ACCESSORIES FOR MACHINES AND ENCLOSURES: A PERFECT MATCH



ÖLFLEX® SERVO FD 70CS

New articles available: The hybrid servo cable is compatible with the single-cable technology interfaces of many manufacturers. It is used for simultaneous power supply, signal and data transmission and is suitable for moving applications as well as for dynamic drag chain use due to its high flexibility and PUR outer sheath. It is available in four new cable construction variants.



H07Z-K 90°C

This single core according to harmonised design H07Z-K $(U_0/U: 450/750 \text{ V})$ convinces with a halogen-free core insulation, which behaves with low smoke in case of fire and only releases small amounts of corrosive gases. It is often used in buildings with a high personal and material value. In addition to ring and large carton, we now offer many items on reel.



H05Z-K 90°C

This single core according to harmonised design H05Z-K $(U_0/U: 300/500 \text{ V})$ convinces with a halogen-free core insulation, which behaves with low smoke in case of fire and only releases small amounts of corrosive gases. It is often used in buildings with a high personal and material value. In addition to ring and large carton, we now offer many items on reel.



TUBE CABLE LUGS KRFS

Accessories? Yes, always! Our cable accessories have been joined by a tubular cable lug which, thanks to its high-quality workmanship, offers you maximum functional reliability. Thanks to the particularly narrow connection flange, it is suitable for connecting switchgear and for all applications where space is limited.



Various applications • Halogen-free ÖLFLEX®



Technical Data



Classification ETIM 5/6

ETIM 5.0/6.0 Class-ID: EC000104 ETIM 5.0/6.0 Class-Description:



Core identification code

Black with white numbers acc. to VDE



Fine wire according to VDE 0295, class 5/IEC 60228 class 5



Minimum bending radius

Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter



Nominal voltage U_o/U: 300/500 V UL: 600 V





G = with GN-YE protective conductor X = without protective conductor



Temperature range Occasional flexing: -30 °C to +70 °C (UL: +75 °C) Fixed installation: -40 °C to +80 °C +75 °C)

ÖLFLEX® CLASSIC 115 CH



Halogen-free core insulation and sheathing compound

Benefit

- Easy handling and installation due to very flexible design.
- Release of inner sheath results in lower weight and smaller outer diameters.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection at www.lappkabel.de/cpr.
- Halogen-free and highly flame-retardant materials reduce the risk of fire propagation, high smoke density and toxic fumes in case of fire.
- Increased oil resistance according to DIN EN 50363-4-1 (TM5) as well as UL OIL RES I and OIL RES II.
- Ideal protection against electromagnetic interference due to copper braided shield with high degree of coverage.
- High electrical safety due to 4000V test voltage.
- UL certification according to technical data allows use of the product in the North American area.

- For building wiring to meet special fire protection requirements.
- Universally applicable for wiring internal and inter-plant control circuits.
- For fixed installation and occasional movement without tensile stress.
- Can be used in dry, damp and especially in oily environments.
- Suitable for medium mechanical stress.
- HFFR outer sheath is largely resistant to acids and alkalis.
- Can be used temporarily outdoors, considering the temperature range.
- Flexible use possible down to -30 °C.





















Various applications • Halogen-free ÖLFLEX®



Technical Data



ETIM 5.0/6.0 Class-ID: EC000057 ETIM 5.0/6.0 Class-Description: Low







Torsion movement in WTG TW-0 & TW-1, refer to Appendix T0



Minimum bending radius Occasional flexing: 15 x outer diameter Fixed installation: 4 x outer diameter



Nominal voltage U0/U: 600/1000 V





G = with GN-YE protective conductor



Occasional flexing: -5 °C to +70 °C Fixed installation: -40 °C to +80 °C

ÖLFLEX® CLASSIC 128 H BK SC

Halogen-free cable, single core, CPR Cca, for building wiring.

Benefit

- Easy handling and installation due to flexible design.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection at www.lappkabel.de/cpr.
- Halogen-free and highly flame-retardant materials reduce the risk of fire propagation, high smoke density and toxic fumes in case of fire.
- High electrical safety due to 4000V test voltage.

- For building wiring to meet special fire protection requirements.
- Universally applicable for wiring of internal and inter-plant control circuits.
- For fixed installation and occasional movement without tensile stress.
- Can be used in dry and damp rooms.
- Suitable for medium mechanical stress.















Servo applications • PVC sheath, certified



Technical Data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable



ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable



Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor Single-paired versions: individual design depending on the item black; white or brown; white

Double-paired versions: black with white numbers 5; 6; 7; 8 0.34 mm² pairs: WH/BN/GN/YE Triplet: black with white numbers 1; 2; 3



Conductor stranding

Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



Minimum bending radius

Occasional flexing: 15 x outer diameter



Power cores and control cores: IEC U₀/U: 600/1000 V UL & CSA: 1000 V



Core/Core: 4 kV Core/Screen: 4 kV



Protective conductor

G = with GN-YE protective conductor



Temperature range Occasional flexing: -5 °C to +70 °C (UL: +80 °C) Fixed installation: -40 °C to +80 °C

ÖLFLEX® SERVO 719 CY



WHAT IS NEW? Shielded PVC servo cable, for fixed installation, North America certification.

Benefit

- Compatible with servo drives from well-known manufacturers.
- Ideal protection against electromagnetic interference due to copper shielding braid with high degree of coverage.
- Low-capacity core insulation for long transmission distances.
- UL/CSA certification according to technical data enables use of the product in the North American area.
- Product with multiple certifications enables universal use, reduces variety of parts and thus ensures savings in logistics.
- Operating voltage of 1000 V permitted by UL for North America.
- Product is available both without and with control wire pairs for e.g. brake and temperature sensor (one shielded control wire pair or triplet or two shielded control wire pairs).

- For connecting frequency inverter and servo motor.
- For fixed installation and occasional movement without tensile stress.
- Can be used in dry and damp rooms.
- Suitable for medium mechanical stress.
- PVC outer sheath is resistant to acids and alkalis and conditionally resistant to oil.



















Servo applications • PVC sheath, certified



Technical Data



ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable



Core identification code
Details see datasheet
ÖLFLEX® SERVO 728 CY



Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5



Minimum bending radius
Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter



Nominal voltage
IEC: 30 V UL & CSA: 300 V



Test voltage C/C: 2000 V C/S: 1000 V



5 °C to +70 °C (UL: +80 °C) Fixed installation: -40 °C to +80 °C

ÖLFLEX® SERVO 728 CY



WHAT IS NEW? Shielded PVC encoder cable, for fixed installation, North America certification.

Benefit

- Compatible with encoder systems from well-known manufacturers.
- Low-capacity wire insulation for long transmission distances.
- UL/CSA certification according to technical data enables use of the product in North America.
- Product with multiple certifications enables universal use, reduces variety of parts and thus ensures savings in logistics.
- Available in various cable construction variants.
- Available in different shielding variants for ideal protection against electromagnetic interference.

- For connecting the feedback system in the servo motor to the frequency inverter.
- For fixed installation and occasional movement.
- Can be used in dry, damp and wet rooms.
- Suitable for medium mechanical stress.
- PVC outer sheath is resistant to acids and alkalis and conditionally resistant to oil.















Power chain applications • Servo applications – power drive systems, certified



Technical Data



ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable



ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable



Core identification code

Details see datasheet ÖLFLEX® SERVO FD 798 CP



Conductor stranding

Fine wire or extra-fine wire



Minimum bending radius

Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter



IEC: 30 V



Core/core: 1500 V rms Core/screen: 750 V rms



(UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C)



Bending cycles & operation parameters See Selection Table A2-1 in the appendix of our online catalogue

ÖLFLEX® SERVO FD 798 CP



WHAT IS NEW? Shielded PUR encoder cable, for drag chain, North America certification.

Benefit

- Compatible with encoder systems from renowned manufacturers.
- Highly flexible cable design ensures maximum product performance.
- Long service life with long travels or high accelerations (LAPP performance class "Extended Line"). This results in longer maintenance cycles, saving costs and increasing the efficiency of machines.
- Extremely weather-resistant with the possibility of use in a wide temperature range.
- Particularly resistant to oil and drilling fluids, making it ideal for harsh environments.
- Low-capacity core insulation for long transmission distances.
- UL/CSA certification according to technical data enables use of the product in North America.
- Product with multiple certifications enables universal use, reduces the number of parts and thus ensures savings in logistics.
- Available in various cable construction variants.
- Available in different shielding variants for ideal protection against electromagnetic interference.

- For connecting the feedback system in the servo motor to the frequency inverter.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Cable design allows highly flexible, continuously moving use in moving machine parts and in the drag chain.
- Can be used in dry, damp and especially in rough and oily environments.
- PUR outer sheath withstands high mechanical loads.
- PUR outer jacket is insensitive to mineral oil-based lubricants and chemically resistant in many cases.
- Suitable for outdoor use.
- Flexible use possible at up to -40 °C.





















Power chain applications • Servo applications – power drive systems, certified



Technical Data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable



ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable



Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor Signal pair: white, blue Control pair (optional): black with white numbers 5 + 6



Conductor stranding

Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6



Minimum bending radius

Flexing: up from 7.5 x outer diameter Fixed installation: 5 x outer diameter



Power and control: IEC: U₀/U: 600/1000 V Signal pair: 300 V



Power and control: 4 kV Data pair: 1kV



Protective conductor

G = with GN-YE protective conductor



Temperature range

Flexing: -40 °C to +90 °C (UL: +80 °C) Fixed installation: -50 °C to +90 °C (UL: +80 °C)

Bending cycles & operation parameters

See Selection Table A2-1 in the appendix of our online catalogue

ÖLFLEX® SERVO FD 7DSL



WHAT IS NEW? Hybrid servo cable, for drag chain and special One Cable Solution interfaces.

Benefit

- Space- and weight-saving hybrid cable for simultaneous power supply, signal and data transmission (single-cable technology).
- Compatible with single-cable technology interfaces such as HIPERFACE DSL® and SCS open link.
- Allows space-saving installation without additional encoder cable. Instead of the encoder cable, integrated signal pairs, signal wires or star quad bundles take over the signal transmission.
- Lower connection costs due to less cabling and quick installation of fewer components.
- Highly flexible cable design ensures maximum product performance.
- Long service life with long travel distances or high accelerations (LAPP performance class "Extended Line"). This results in longer maintenance cycles, saving costs and increasing the efficiency of machines.
- Low-capacity core insulation for long transmission paths.
- Ideal protection against electromagnetic interference due to copper shielding braid with high degree of coverage.
- UL/CSA certification according to technical data enables use of the product in the North American region.

- For connecting frequency inverters and servo motors.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Cable design allows highly flexible, continuous motion use in moving machine parts and in the drag chain, with horizontal travels up to 20 m.
- Can be used in dry, wet and especially in rough and oily environ-
- PUR outer jacket withstands high mechanical loads.
- PUR outer jacket is insensitive to mineral oil-based lubricants and is chemically resistant in many cases.
- Suitable for outdoor use.
- Flexible use possible at up to -40 °C.





















Power chain applications • Servo applications – power drive systems, certified



Technical Data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000104 TIM 5.0 Class-Description: Control cable



ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable



Core identification code

Details see datasheet



Power cores and brake pairs or triplets: Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6 Signal cores, data pairs or star quads: Fine-wired



Minimum bending radius

Flexing: 7.5 x outer diameter Fixed installation: 5 x outer diameter



ersion 1,3 & 4: IEC U₀/U 600/1000 V Individual data pairs and quads:



Test voltage

Details see datasheet



Protective conductor



Temperature range

Flexing: -40 °C to +80 °C Fixed installation: -50 °C to +80 °C

Bending cycles & operation parameters

See Selection Table A2-1 in the appendix of our online catalogue

ÖLFLEX® SERVO FD 70CS



WHAT IS NEW? Hybrid servo cable, for drag chain and different One Cable Solution interfaces.

Benefit

- Space- and weight-saving hybrid cable for simultaneous power supply, signal and data transmission (single-cable technology).
- Compatible with single-cable technology interfaces of many manufacturers.
- Allows space-saving installation without additional encoder cable. Instead of the encoder cable, integrated signal pairs, signal wires or star quad bundles take over the signal transmission.
- Lower connection costs due to less cabling and quick installation of fewer components.
- Highly flexible cable design ensures maximum product performance.
- Long service life with long travel distances or high accelerations (LAPP performance class "Extended Line"). This results in longer maintenance cycles, saving costs and increasing the efficiency of machines.
- Low-capacity core insulation for long transmission paths.
- Ideal protection against electromagnetic interference due to copper shielding braid with high degree of coverage.
- UL/CSA certification according to technical data enables use of the product in North America.

- For connecting frequency inverters and servo motors.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Cable design allows highly flexible, continuously moving use in moving machine parts and in the drag chain, with horizontal travels up to 20 m.
- Can be used in dry, wet and especially in rough and oily environ-
- PUR outer jacket withstands high mechanical loads.
- PUR outer jacket is insensitive to mineral oil-based lubricants and is chemically resistant in many cases.
- Suitable for outdoor use.
- Flexible use possible at up to -40 °C.























Control Cabinet Single Cores • Halogen-free



Technical Data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable



ETIM 6.0 Class-ID: EC000993 ETIM 6.0 Class-Description: Single core cable



Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



According to EN 50565-1 4 x outer diameter (OD) for normal use; 2 x OD for cautions bending



U°/U: 300/500 V





VDE 0298-4

EN 50565-1/ VDE 0298-565-1



During installation: -5 °C bis +90 °C Fixed installation: -40 °C bis +90 °C

H05Z-K 90°C



WHAT IS NEW? The halogen-free control cabinet single core according to type H05Z-K is now also available on reel.

Benefit

- Manufactured according to harmonised European design H05Z-K, with test mark <HAR> for tested safety and quality.
- <HAR> cables widely accepted and applicable in Europe.
- Halogen-free core insulation compound as well as low smoke development and low corrosiveness of the gases in case of fire favour the use in public areas.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection at www.lappkabel.de/cpr.
- Compact design for easy processing.
- Various core insulation colours available.
- Available as ring, on spool or in disposable large carton.

- For wiring internal machine circuits, in compliance with special fire protection requirements.
- Suitable for wiring inside control cabinets.
- For wiring luminaires.
- For fixed and protected installation in electrical conduits on or under plaster.
- Can be used on cable trays for open laying for equipotential bonding.
- Can be used in dry rooms.
- For operating temperatures from -40 °C to +90 °C.

















Control Cabinet Single Cores • Halogen-free



Technical Data



Classification ETIM 5

ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable



ETIM 6.0 Class-ID: EC000993 ETIM 6.0 Class-Description: Single core cable



Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



Minimum bending radius

According to EN 50565-1 $OD \le 8 \text{ mm: } 4 \times OD^*/2 \times OD^{**};$ $8 < OD \le 12 \text{ mm}: 5 \times OD^*/3 \times OD^{**};$ $OD > 12 \text{ mm: } 6 \times OD^*/4 \times OD^{**}$



Nominal voltage U₀/U: 450/ 750 V

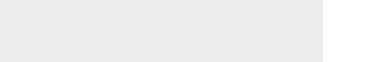




VDE 0298-4 EN 50565-1/ VDE 0298-565-1



During installation: -5 °C bis +90 °C Fixed installation: -40 °C bis +90 °C



H07Z-K 90°C



WHAT IS NEW? The halogen-free control cabinet single core according to type H07Z-K is now also available on reel.

Benefit

- Manufactured according to harmonised European design H07Z-K, with test mark <HAR> for tested safety and quality (does not apply to: transparent, green (single colour), yellow (single colour), all double colours (except green-yellow and yellow-green)).
- <HAR> cables widely accepted and usable in Europe.
- Halogen-free core insulation compound as well as low smoke development and low corrosiveness of the gases in case of fire favour the use in public areas.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection at www.lappkabel.de/cpr.
- Compact design for easy processing.
- Various core insulation colours available.
- Available as ring, on spool or in disposable bulk carton. Availability of large cartons depends on colour and crosssection and is generally only available up to 6 mm² conductor cross-section.

- For wiring internal machine circuits, in compliance with special fire protection requirements.
- Suitable for wiring inside control cabinets.
- For wiring luminaires.
- For fixed and protected installation in electrical conduits on or under plaster.
- Can be used on cable trays for open laying for equipotential bonding.
- Can be used in dry rooms.
- For operating temperatures from -40 °C to +90 °C.

















Tools and cable accessories

Connection and crimping • Tube cable lugs



Technical Data



ETIM 5.0 Class-ID: EC001051 ETIM 5.0 Class-Description: Tube cable lug for copper conductors



Tinned electrolyte copper











Tube cable lugs KRFS 📴



Tube cable lugs KRFS with narrow flange for cables of class 2, 5 and 6, especially for installation using cable glands

Benefit

- Thanks to the particularly narrow connection flange, it is ideal when space is limited. The connection flange width is smaller than/equal to the pipe diameter.
- Can still be fed through cable glands after connection to the
- High-quality electrolytic copper ensures high functional reliability and load capacity.
- With inspection hole for checking the secure hold.

- To create a secure crimp connection with stranded, fine and superfine copper conductors of classes 2, 5 and 6 (conductor cross-sections 50-240 mm²).
- Suitable for outdoor use.





DATA TRANS-MISSION SYSTEMS FOR ETHERNET TECHNOLOGY

YOUR HIGHWAY FOR BIG DATA

MIPLE PHIB ZE 9 PZES DEZ ZOBEZODO RUMM

NEW: Summer 2021



HITRONIC® GOF DUPLEX PNB

Fibre optic breakout cable, GOF, for PROFINET applications type B, LSZH halogen-free.



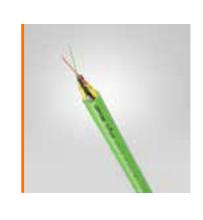
HITRONIC® GOF DUPLEX PNC

Fibre optic breakout cable, for PROFINET applications type C, PUR halogen-free.





DATA TRANSMISSION SYSTEMS FOR ETHERNET TECHNOLOGY: YOUR HIGHWAY FOR BIG DATA



HITRONIC® GOF DUPLEX PNB

The product name stands for fibre optics + PROFINET + building installation in one! The highly flame-retardant breakout cable with CPR classification is suitable for control cabinet and structured building cabling within PROFINET networks. Both the individual cables inside and the outer sheath impress with halogen-free materials.



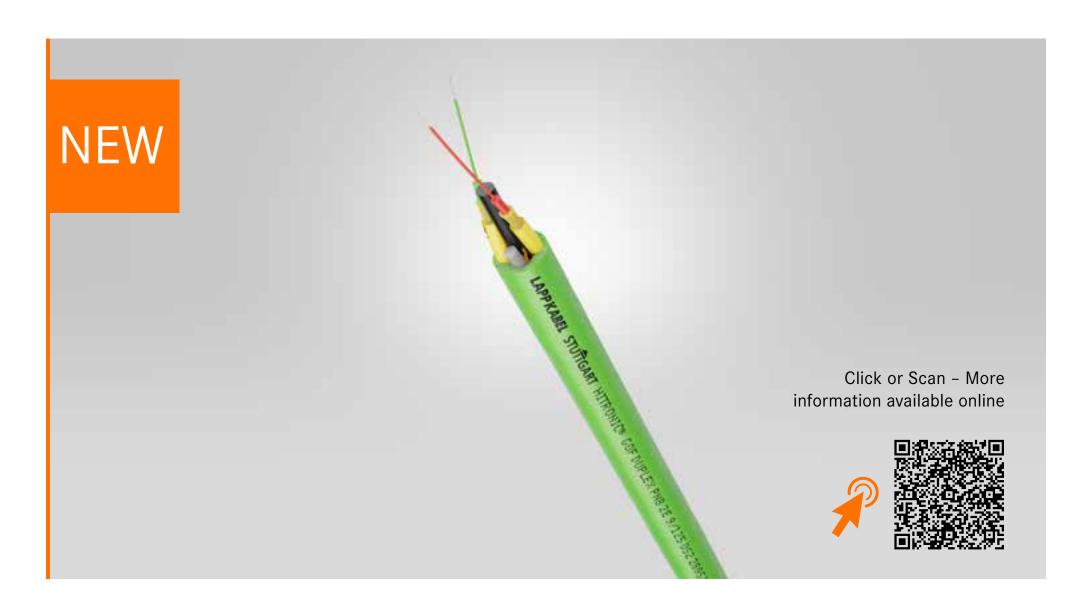
HITRONIC® GOF DUPLEX PNC

The product name stands for fibre optics + PROFINET + permanent movement in one! The breakout cable combines drag chain, torsion and alternating bending properties and is suitable for moving applications, vibration or torsion within PROFINET networks. Thanks to the PUR outer jacket, the product proves to be particularly durable and robust.



Optical transmission systems

GOF - Glass Optical Fibre • Indoor area



Technical Data





Fixed installation: 600 N



Operating temperature: -20 °C up to 70 °C During installation: -5 °C to +50 °C

HITRONIC® GOF DUPLEX PNB



Fibre optic breakout cable, GOF, for PROFINET applications type B, LSZH halogen-free.

Benefit

- Halogen-free and highly flame-retardant materials reduce the risk of fire propagation, high smoke density and toxic fumes in case of fire.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection at www.lappkabel.de/cpr.
- With non-metallic aramid yarns for strain-relieving effect.
- No generation of electromagnetic interference due to non-metallic materials inside the cable.
- Allows on-site assembly as breakout cable.
- Easy handling due to flexible and compact design.
- Available in different GOF Fiber categories (OM1-OM3, OS2).

- For flexible use in the PROFINET network (type B).
- For use in the control cabinet.
- For structured building cabling of the secondary and tertiary area, according to EN 50173 and ISO/IEC 11801.
- For fixed and protected routing in installation ducts, on cable trays, in the riser zone, in hollow ceilings and floors and for short distances.
- Can be used in dry rooms.
- Outer sheath of the product and inner sheaths of the two individual cables are made of halogen-free LSZH compound.











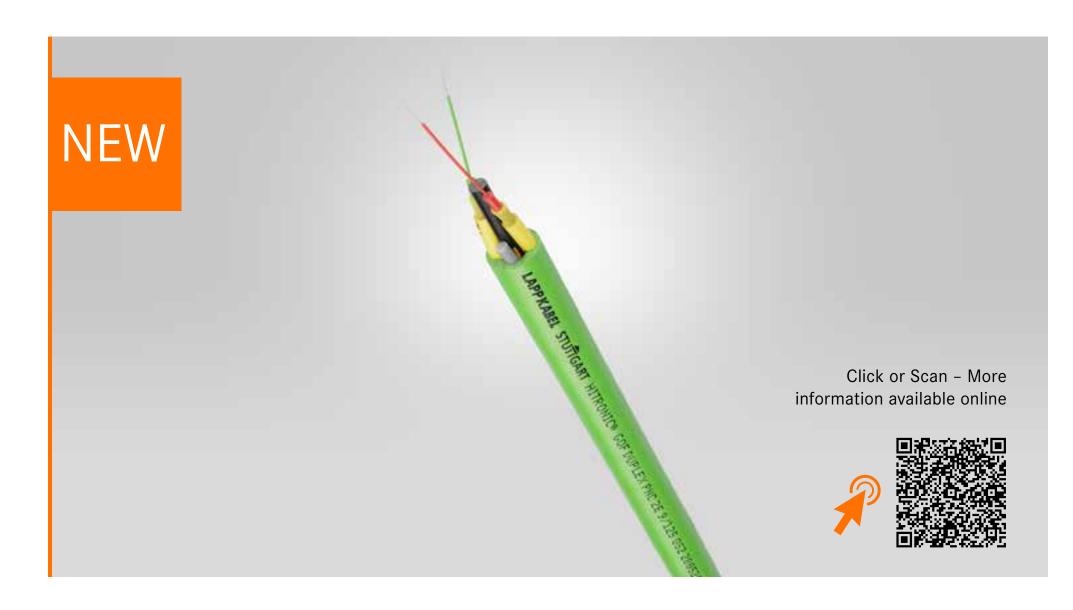






Optical transmission systems

GOF - Glass Optical Fibre • Indoor area



Technical Data





Fixed installation: 1500 N



Operation: -40 °C to +70 °C Ouring installation: -40 °C to +70 °C

HITRONIC® GOF DUPLEX PNC



Fibre optic breakout cable, for PROFINET applications type C, PUR halogen-free.

Benefit

- Insensitive product, thanks to abrasion-, notch- and cut-resistant PUR outer sheath material.
- Halogen-free sheathing compound for compliance with special fire protection requirements.
- Durable cable successfully tested to 1.5 million bending cycles in the drag chain and 1.5 million alternating bending cycles in the TicToc bending test.
- Cable construction allows rotations with torsion angles up to \pm 180°/m.
- With non-metallic aramid yarns for strain relief.
- No generation of electromagnetic interference due to non-metallic materials inside the cable.
- Allows on-site assembly as breakout cable.
- Available in different GOF fibre categories (OM 1–OM3, OS2)

- For highly flexible, permanently moving use in moving machine parts and in the drag chain in the PROFINET network (type C).
- For fixed and protected routing in installation ducts, on cable trays, in the riser zone, in hollow ceilings and floors and for short plugs.
- Can be used in dry rooms.
- PUR outer sheath withstands high mechanical loads.
- PUR outer sheath is insensitive to mineral oil-based lubricants and chemically resistant in many cases.















STORAGE, TRANSPORT, PROCESSING



NEW: Summer 2021



TRONIC Module single core cart Climber

Single-core trolley with stair climbing function for accommodating 12 single single cores





STORAGE, TRANSPORT, PROCESSING – OUR SMART TRANSPORT AND LOGISTICS SOLUTIONS



TRONIC MODULE SINGLE CORE CART CLIMBER

No matter where: The 6 hard rubber wheels of the single core cart climber make it easy and safe to to overcome stairs and other barriers. So nothing stands in the way of single core transport to the place of use! The trolley can accommodate up to 6 TRONIC modules, i.e. up to 12 single cores, unwind and store them clearly.



Tools and cable accessories

Transporting, storing, unwinding • Single core shelves



Technical data





General data Max. load per TRONIC: 7 kg



Painted steel

TRONIC Module single core cart Climber



Article extension to the TRONIC products. Focus: Stair climbing function

Benefits

- Mobile means of transport for single cores ensures high flexibility at the place of use and reduces walking distances.
- With specially arranged wheels that make climbing stairs easier. No need to carry heavy loads.
- Tyres suitable for various surfaces.
- Serves at the same time as a practical and safe storage possibility for several single wires and thus enables a tidy and clear workplace.
- Safe unwinding of the single strands, due to the horizontal pull-off without twist.
- Direct material removal at the point of use enables easier and faster further processing of the single cores.
- Quick and easy reloading for user-friendly handling.
- A tray for tools and smaller work equipment is optionally available.

- For transporting storing, and unwinding single cores.
- Especially suitable to overcome stairs and other barriers.
- The 6 included TRONIC modules can be equipped with up to 12 single cores or the matching single core excess lengths.
- Suitable for indoor and outdoor use.





LEGEND

NEW PRODUCT



ARTICLE EXTENSION



PRODUCT CHARACTERISTICS



Suitable for outdoor use



Maximum vibration protection



Clean room



Temperature-resistant



Good chemical resistance



Mechanical resistance



Robust



Torsion-resistant



Flame-retardant



Assembly time



Acid-resistant



Torsion load



Wide clamping range



Low weight



Reliability



UV-resistant



Halogen-free



Oil-resistant



Integrated SKINTOP® cable gland



Waterproof



Heat-resistant



Optimum strain



Voltage



Variety of approval certifications



Cold-resistant



Space requirement

Power Chain



Interference signals

standard housing unit

Connector with



Submersible use



Corrosion-resistant



((C)) Int

Please note:

The purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the "technical data" sections on the product pages.









Note: A detailed article list is available online or from your contact person.













Due to the current material shortages, delivery times may be longer.

