

SILVYN®

Protective cable conduit systems and cable carrier systems



The universal range of SILVYN® protection and guidance systems protect cables effectively against dust, moisture, mechanical, thermal and chemical influences. The versatile SILVYN® CHAIN range of energy supply chains also protects and guides cables in dynamic applications.

Application range

- Industrial machinery and plant engineering
- Automotive industry
- Machine tool manufacture
- Renewable energies
- Wherever cables require additional protection or guidance



SILVYN® FPS



Benefits

- Dimensionally stable
- Crushable and extendable
- Highly oil and acid-resistant
- Liquidtight
- Corrosion-resistant

Application range

- Mechanical engineering
- In drag chains (SILVYN® CHAIN)
- Robot-building
- Moving applications
- Indoor applications

Product features

- Cadmium-free

Product Make-up

- PVC-insulated steel spring wire
- Soft PVC outer sheath

Note

- PU = 50 m (on request)

Technical data

- Classification**
ETIM 5.0 Class-ID: EC001177
ETIM 5.0 Class-Description:
Protective plastic hose
- Certifications**
IEC EN 61386-23
- Colour delivered**
Grey
- Material**
Soft PVC with insulated spring steel wire
- Temperature range**
-25 °C to +80 °C

Article number	Nominal size	ID x OD mm	Bending radius (mm)	Suitable for SILVYN® USK-M/US-M	Suitable for SILVYN® LKI-M/MSK-M	Suitable for SILVYN® USK/US/LKI/EE-K	PU ring (m)
SILVYN® FPS							
61711550	10	7.0 x 10.0	8	10 x 1,0	12 x 1,5	7	25
61711590	14	10.0 x 14.0	10	12 x 1,5	16 x 1,5	9	25
61711630	17	13.0 x 17.0	13	16 x 1,5	20 x 1,5	11	25
61711670	19	15.0 x 19.0	15			13,5	25
61711710	21	16.0 x 21.0	17	20 x 1,5	25 x 1,5	16	25
61711750	27	22.0 x 27.0	20	25 x 1,5	32 x 1,5	21	25
61711790	36	29.0 x 36.0	25	32 x 1,5	40 x 1,5	29	25
61711830	45	38.0 x 45.0	36	40 x 1,5	50 x 1,5	36	25
61711910	56	48.0 x 56.0	40	50 x 1,5	63 x 1,5	48	25
SILVYN® FPS 10M							
61721690	10	7.0 x 10.0	8	10 x 1,0	12 x 1,5	7	10
61721700	14	10.0 x 14.0	10	12 x 1,5	16 x 1,5	9	10
61721710	17	13.0 x 17.0	13	16 x 1,5	20 x 1,5	11	10
61721720	19	15.0 x 19.0	15			13,5	10
61721730	21	16.0 x 21.0	17	20 x 1,5	25 x 1,5	16	10
61721740	27	22.0 x 27.0	20	25 x 1,5	32 x 1,5	21	10
61721750	36	29.0 x 36.0	25	32 x 1,5	40 x 1,5	29	10
61721760	45	38.0 x 45.0	36	40 x 1,5	50 x 1,5	36	10
61721780	56	48.0 x 56.0	40	50 x 1,5	63 x 1,5	48	10

Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- SILVYN® FD-PU refer to page 363

Accessories

- SILVYN® MSK-M EE refer to main catalogue
- SILVYN® US-M refer to main catalogue
- SILVYN® LKI-M refer to main catalogue
- SILVYN® US refer to main catalogue
- SILVYN® USK-M refer to main catalogue
- SILVYN® LKI refer to main catalogue
- SILVYN® EE-K refer to main catalogue

Protective cable conduit systems and cable carrier systems



Metal protective cable conduit systems • SILVYN® AS/EDU-AS/AS-P



SILVYN® FPS-EDU



Info

- High flexible and mechanical protection at the same time

Benefits

- Protects against hot chips
- High-tensile
- Highly flexible
- Air-tight and impermeable
- Mechanical resistance

Application range

- Mechanical engineering
- Plant engineering
- Automation technology
- Used in areas where cables and wires could be damaged by welding sparks and hot chips
- Robotics industry

Product Make-up

- PVC-insulated steel spring wire
- Soft PVC outer sheath
- Galvanised steel wire braiding

Note

- PU = 10m (on request)

Technical data



Classification

ETIM 5.0 Class-ID: EC001177
ETIM 5.0 Class-Description:
Protective plastic hose



Material

insulated spring steel wire with Soft PVC and galvanized steel braid



Temperature range

-25°C to +80°C
Short-term: up to +100°C

Article number	Nominal size	ID x OD mm	Bending radius (mm)	Suitable for SILVYN® MSK-M	Suitable for SILVYN® US-M	Suitable for SILVYN® US	PU ring (m)
SILVYN® FPS-EDU							
61802330	14	9.0 x 14.0	16	16 x 1,5	16 x 1,5	9	50
61802331	17	12.0 x 17.0	19	20 x 1,5	20 x 1,5	11	50
61802332	19	14.0 x 19.0	22			13,5	50
61802333	21	15.0 x 21.0	24	25 x 1,5	20 x 1,5	16	50
61802334	27	20.0 x 27.0	30	32 x 1,5	25 x 1,5	21	50
61802335	36	28.0 x 36.0	40	40 x 1,5	32 x 1,5	29	25
61802336	45	37.0 x 45.0	48	50 x 1,5	40 x 1,5	36	25
61802337	56	48.0 x 56.0	60	63 x 1,5	50 x 1,5	48	25

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Similar products

- SILVYN® FPS refer to page 361
- SILVYN® FD-PU refer to page 363
- SILVYN® EDU-AS refer to main catalogue

Accessories

- SILVYN® MSK-M US refer to main catalogue
- SILVYN® US-M refer to main catalogue
- SILVYN® US refer to main catalogue



Protective cable conduit systems and cable carrier systems

Plastic protective cable conduit systems • SILVYN® FPS/FD-PU



SILVYN® FD-PU



SILVYN® MSK-M

SILVYN® USK/USK-M
IP54SILVYN® US/US-M + EE-K
IP54SILVYN® LKI/LKI-M
IP54

SILVYN® EE-K

Benefits

- Dimensionally stable
- Highly flexible at cold temperatures
- Crushable and extendable
- High resistance to oil, petrol, acids and greases
- Liquidtight

Application range

- For indoor and outdoor use
- Mechanical engineering
- In drag chains (SILVYN® CHAIN)
- Robot-building
- Moving applications

Product features

- Halogen and cadmium-free
- Abrasion and microbe-resistant
- Fire behaviour of outer sheath according to UL 94V-2

Product Make-up

- PVC-insulated steel spring wire
- PUR outer sheath

Note

- PU = 50 m (on request)

Technical data



Classification

ETIM 5.0 Class-ID: EC001177
ETIM 5.0 Class-Description:
Protective plastic hose



Certifications

IEC EN 61386-23



Colour delivered

Metallic blue



Material

PUR with PVC-insulated spring steel wire
Fire behaviour according to UL94 V-2



Temperature range

-40°C to +80°C

Article number	Nominal size	ID x OD mm	Bending radius (mm)	Suitable for SILVYN® USK-M/US-M	Suitable for SILVYN® LKI-M/MSK-M	Suitable for SILVYN® USK/US/LKI/EE-K	PU ring (m)
SILVYN® FD-PU							
64453660	10	7.0 x 10.0	8	10 x 1,0	12 x 1,5	7	10
64453670	14	10.0 x 14.0	10	12 x 1,5	16 x 1,5	9	10
64453680	17	13.0 x 17.0	13	16 x 1,5	20 x 1,5	11	10
64453690	19	15.0 x 19.0	15			13,5	10
64453700	21	16.0 x 21.0	17	20 x 1,5	25 x 1,5	16	10
64453710	27	22.0 x 27.0	20	25 x 1,5	32 x 1,5	21	10
64453720	36	29.0 x 36.0	25	32 x 1,5	40 x 1,5	29	10
64453730	45	38.0 x 45.0	36	40 x 1,5	50 x 1,5	36	10
64453750	56	48.0 x 56.0	40	50 x 1,5	63 x 1,5	48	10

Photographs are not to scale and do not represent detailed images of the respective products.

Accessories

- SILVYN® MSK-M EE refer to main catalogue
- SILVYN® US-M refer to main catalogue
- SILVYN® LKI-M refer to main catalogue
- SILVYN® US refer to main catalogue
- SILVYN® USK-M refer to main catalogue
- SILVYN® LKI refer to main catalogue
- SILVYN® EE-K refer to main catalogue

Protective cable conduit systems and cable carrier systems

Parallel corrugated protective cable conduit systems • SILVYN® RILL



SILVYN® RILL PA 12



Benefits

- Dimensionally stable
- Highly flexible at cold temperatures
- Flame-retardant and self-extinguishing according to UL 94V-2
- Crush-resistant
- Highly flexible

Application range

- Mechanical engineering
- In drag chains (SILVYN® CHAIN)
- Building Automation
- Robot-building
- Outdoor application (in black)

Product features

- Halogen and cadmium-free
- Abrasion-resistant
- High resistance to oil, petrol, acids and other chemicals

Norm references / Approvals

- UL FILENUMBER E308201

Product Make-up

- Fine-profile corrugated polyamide 12 conduit

Note

- UV and weather-resistant in black



Info

- Designed for continous movement

Technical data

Classification
ETIM 5.0 Class-ID: EC001175
ETIM 5.0 Class-Description:
Corrugated plastic hose

Certifications
IEC EN 61386-23
UL File No. E308201
DNV, Lloyd's Register
Rail:
DB DIN 5510 Part 2 (S4/SR2/ST2)
EN 45545-2 (HL-2) - only in black colour
SNCF NFF 16 101 / 102 (I3/F2 - I4/F1)
UNDERGROUND BS 6853

Colour delivered
Grey (RAL 7031)
Black (RAL 9011), UV-resistant

Material
PA 12
Silicone-free
Halogen-free
Fire behaviour according to UL 94V-2

Temperature range
-50°C bis +100°C
short-term +150°C

Article number	Nominal size	ID x OD mm	Bending radius (mm)	Suitable for SILVYN® KCLICK-M/90°M	Suitable for SILVYN® KCLICK PG/90°PG	Suitable for SILVYN® KCLICK-GPZ-M/GPZ	PU (m)
SILVYN® RILL PA 12 grey							
61815100	10	6.5 x 10.0	13	10 x 1,5	7/-	12 x 1,5/7	50
61815110	13	10.0 x 13.0	15	12 x 1,5/ 16 x 1,5	9	16x1,5/9	50
61815120	16	12.0 x 15.8	22	16 x 1,5/20 x 1,5	11	20x1,5/11	50
61815180	18	14.3 x 18.5	27		13,5	-/ 13,5	50
61815130	21	16.5 x 21.2	35	20 x 1,5	16	25x1,5/16	50
61815140	28	23.0 x 28.5	45	25 x 1,5	21	32x1,5/21	50
61815150	34	29.0 x 34.5	50	32 x 1,5	29	40x1,5/29	25
61815160	42	36.0 x 42.5	80	40 x 1,5	36	50x1,5/36	25
61815170	54	48.0 x 54.5	100	50 x 1,5	48	63x1,5/48	25
SILVYN® RILL PA 12 black							
61815105	10	6.5 x 10.0	13	10 x 1,5	7/-	12 x 1,5/7	50
61815115	13	10.0 x 13.0	15	12 x 1,5/ 16 x 1,5	9	16x1,5/9	50
61815125	16	12.0 x 15.8	22	16 x 1,5/20 x 1,5	11	20x1,5/11	50
61815185	18	14.3 x 18.5	27		13,5	-/ 13,5	50
61815135	21	16.5 x 21.2	35	20 x 1,5	16	25x1,5/16	50
61815145	28	23.0 x 28.5	45	25 x 1,5	21	32x1,5/21	50
61815155	34	29.0 x 34.5	50	32 x 1,5	29	40x1,5/29	25
61815165	42	36.0 x 42.5	80	40 x 1,5	36	50x1,5/36	25
61815175	54	48.0 x 54.5	100	50 x 1,5	48	63x1,5/48	25

Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- SILVYN® FPAS refer to main catalogue
- SILVYN® RILL PA 6 refer to main catalogue

Accessories

- SILVYN® KCLICK-M refer to main catalogue
- SILVYN® KCLICK 90° M refer to main catalogue
- SILVYN® KCLICK GPZ-M refer to main catalogue
- SILVYN® KSE refer to main catalogue
- SILVYN® KCLICK PG refer to main catalogue
- SILVYN® KCLICK 90° PG refer to main catalogue
- SILVYN® KCLICK-GPZ refer to main catalogue
- SILVYN® KCLICK-Y refer to main catalogue
- SILVYN® KCLICK-RH refer to main catalogue
- SILVYN® K-EM refer to main catalogue

LAPPKABEL

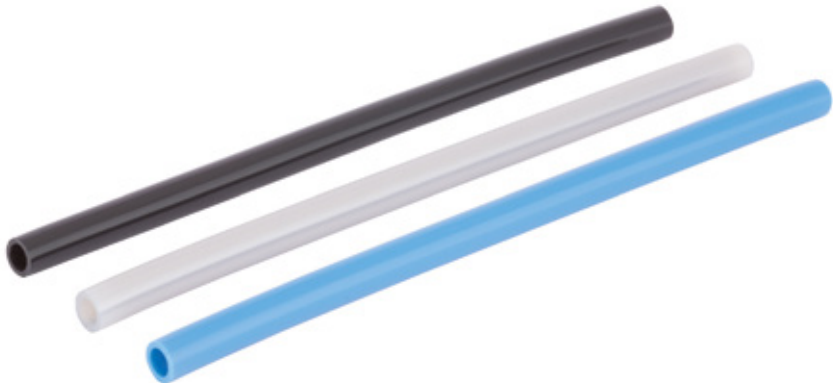
Protective cable conduit systems and cable carrier systems

Plastic protective cable conduit systems • Plastic tubing PUN



PUN

Highly flexible plastic tubing for pneumatic use in cable chains



Benefits

- Very high flexibility
- Standard Outer Diameter (calibrated)
- Smooth inner and outer surface
- Diversity of variants

Application range

- For use with operating medium such as Compressed air and Vacuum
- In drag chains (SILVYN® CHAIN)

Product features

- Operating medium Compressed air in accordance with ISO 8573-1:2010[7:-:]
- Temperature dependent operating pressure from -0,95 to +10 bar

Technical data

On request
Other sizes, lengths and colours are available upon request

Material
TPE-U (Polyurethane)
Fire behaviour according to UL 94 HB

Temperature range
-35 °C to +60 °C

Article number	ID x OD mm	Bending radius (mm)	Colour	PU
PUN - blue				
61713200	2.1 x 3.0	9	blue	50
61713203	2.6 x 4.0	11	blue	50
61713206	4.0 x 6.0	16	blue	50
61713224	5.7 x 8.0	24	blue	50
61713212	7.0 x 10.0	28	blue	50
61713215	8.0 x 12.0	33	blue	50
61713218	9.8 x 14.0	45	blue	50
61713221	11.0 x 16.0	45	blue	50
PUN - black				
61713202	2.1 x 3.0	9	black	50
61713205	2.6 x 4.0	11	black	50
61713208	4.0 x 6.0	16	black	50
61713226	5.7 x 8.0	24	black	50
61713214	7.0 x 10.0	28	black	50
61713217	8.0 x 12.0	33	black	50
61713220	9.8 x 14.0	45	black	50
61713223	11.0 x 16.0	45	black	50
PUN - silver				
61713201	2.1 x 3.0	9	silver	50
61713204	2.6 x 4.0	11	silver	50
61713207	4.0 x 6.0	16	silver	50
61713225	5.7 x 8.0	24	silver	50
61713213	7.0 x 10.0	28	silver	50
61713216	8.0 x 12.0	33	silver	50
61713219	9.8 x 14.0	45	silver	50
61713222	11.0 x 16.0	45	silver	50

* Trade product, no Lapp product
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