

# KABELSCHLEPP

## TRAXLINE CABLES FOR MOTION



CONTINUOUS BENDING HI-FLEX ELECTRICAL CABLES

TOTALTRAX TURN-KEY SYSTEMS

TRAXLINE PRE-ASSEMBLED CABLES

... FOR CABLE CARRIERS

# Cost-effective, reliable, durable

## TRAXLINE cables for cable carriers

### Ready for solutions – your advantage

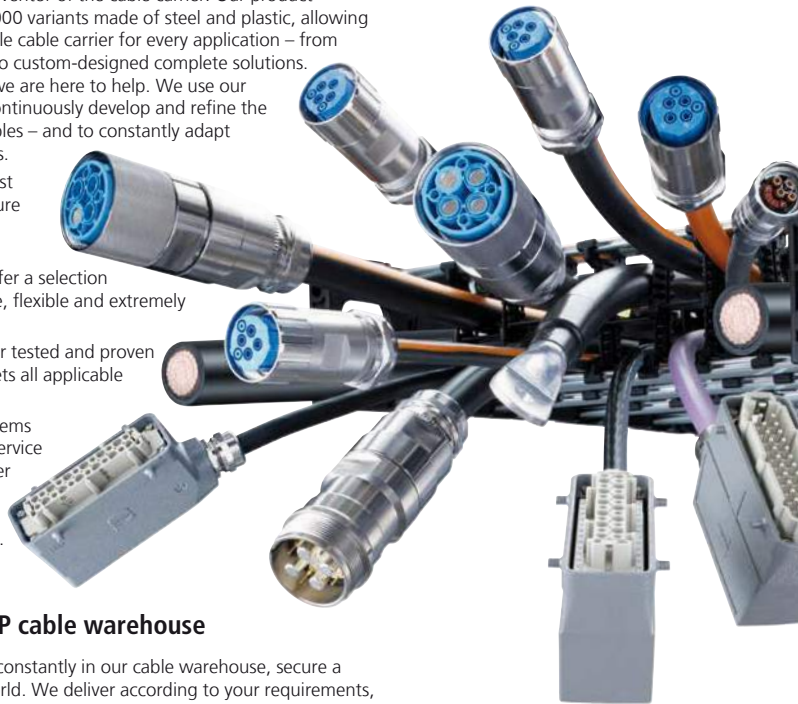
TSUBAKI KABELSCHLEPP – the inventor of the cable carrier. Our product portfolio covers more than 100,000 variants made of steel and plastic, allowing us to deliver a suitable and reliable cable carrier for every application – from standard off-the-shelf products to custom-designed complete solutions. Wherever you are in the world, we are here to help. We use our over 60 years of experience to continuously develop and refine the “insides” – i.e. the TRAXLINE cables – and to constantly adapt them to the market requirements.

Our cable ranges meet the highest quality standards in order to ensure availability of your systems and installations.

With the TRAXLINE range, we offer a selection of cables which are cost-effective, flexible and extremely durable.

A key factor for our cables is their tested and proven operational reliability, which meets all applicable standards and directives.

Competent, objective-driven systems consultation and global on-site service are both part of what we consider an on-going commitment to the technical and commercial optimisation of your applications.

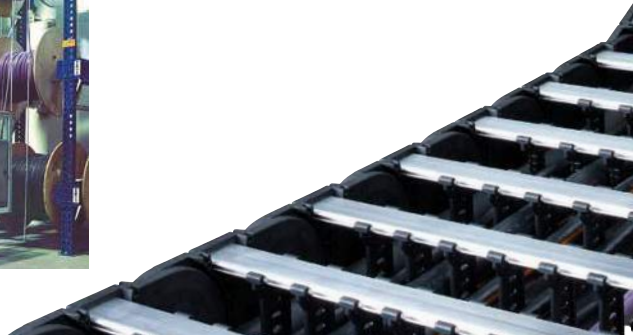


### TSUBAKI KABELSCHLEPP cable warehouse

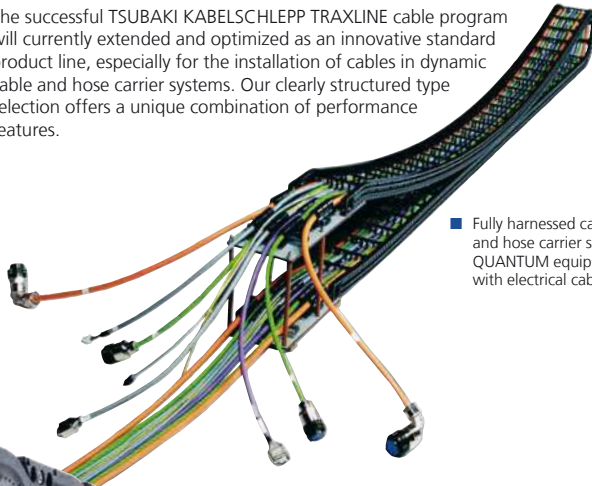
Hundreds of cable types, stored constantly in our cable warehouse, secure a fast availability all around the world. We deliver according to your requirements, no minimum quantities, each length without extra cutting costs.



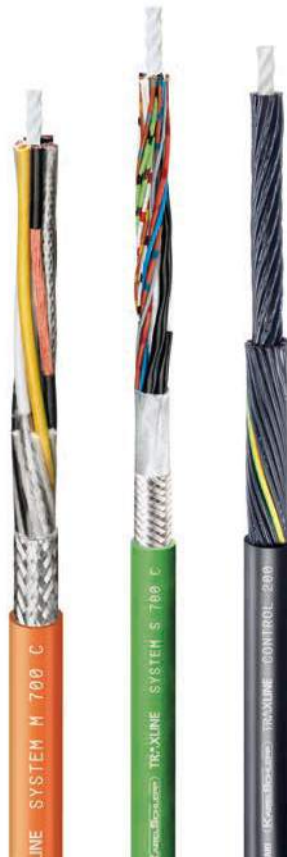
■ TSUBAKI KABELSCHLEPP cable warehouse.



The successful TSUBAKI KABELSCHLEPP TRAXLINE cable program will currently be extended and optimized as an innovative standard product line, especially for the installation of cables in dynamic cable and hose carrier systems. Our clearly structured type selection offers a unique combination of performance features.



- Fully harnessed cable and hose carrier system QUANTUM equipped with electrical cables.



**Overview of TRAXLINE cable types** 4

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# Overview TRAXLINE cable types

Cable type	Outer jacket	Shield	Factor for K <sub>Rmin</sub> = n x Ø cable	Temperature moved	Approvals
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## CONTROL cables

CONTROL 200		PVC	–	10	-5 to +80 °C	
CONTROL 200 C		PVC	✓	10	-5 to +80 °C	
CONTROL 400 600 V		PVC	–	7.5	-5 to +80 °C	
CONTROL 400 C 600 V		PVC	✓	7.5	-5 to +80 °C	
CONTROL 700 600 V		PUR	–	7.5	-35 to +90 °C	
CONTROL 700 C 600 V		PUR	✓	7.5	-35 to +90 °C	

## POWER cables

POWER 400 1 kV		PVC	–	7.5	-5 to +80 °C	
POWER 400 C 1 kV		PVC	✓	7.5	-5 to +80 °C	
POWER 700 1 kV		PUR	–	7.5	-35 to +90 °C	
POWER ONE 700 1 kV		PUR	–	7.5	-35 to +90 °C	
POWER ONE 700 PE		PUR	–	7.5	-35 to +90 °C	
POWER 700 C 1 kV		PUR	✓	7.5	-35 to +90 °C	
POWER ONE 700 C 1 kV		PUR	✓	7.5	-35 to +90 °C	

## DATA cables

DATA 400 C		PVC	✓	7.5	-5 to +80 °C	
DATA 700		PUR	–	7.5	-35 to +90 °C	
DATA 700 TPi C		PUR	✓	7.5	-35 to +90 °C	
DATA 700 TPi CD / POWER 700 TPi CD 1 kV		PUR	✓	7.5	-35 to +90 °C	

Cable overview after part numbers ► Page 87

Standards	Colour type-dependent	Halogen-free	Flame-retardant	Oil-resistant	V <sub>max</sub> supported (m/s)	V <sub>max</sub> gliding (m/s)	a <sub>max</sub> (m/s <sup>2</sup> )	Diameter mm/Type/Other	Core number	Page
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12

☞	REACH/RoHS II	black	-	✓	✓	3.5	2	10	0.5 <sup>2</sup> to 2.5 <sup>2</sup>	2-25	12
☞	REACH/RoHS II	black	-	✓	✓	3.5	2	10	0.5 <sup>2</sup> to 1.5 <sup>2</sup>	2-25	14
☞	REACH/RoHS II	black	-	✓	✓	5	3	20	0.34 <sup>2</sup> to 2.5 <sup>2</sup>	2-48	16
☞	REACH/RoHS II	black	-	✓	✓	5	3	20	0.5 <sup>2</sup> to 1.5 <sup>2</sup>	3-36	18
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.5 <sup>2</sup> to 1 <sup>2</sup>	2-36	20
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.5 <sup>2</sup> to 1 <sup>2</sup>	3-25	22

24

☞	REACH/RoHS II	black	-	✓	✓	5	3	20	1.5 <sup>2</sup> to 70 <sup>2</sup>	2-25	24
☞	REACH/RoHS II	black	-	✓	✓	5	3	20	1.5 <sup>2</sup> to 35 <sup>2</sup>	4-7	26
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	1.5 <sup>2</sup> to 95 <sup>2</sup>	2-36	28
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.25 <sup>2</sup> to 700 <sup>2</sup>	1	30
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	1.5 <sup>2</sup> to 95 <sup>2</sup>	1	32
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	1.5 <sup>2</sup> to 150 <sup>2</sup>	2-49	34
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	1.5 <sup>2</sup> to 300 <sup>2</sup>	1	36

38

☞	REACH/RoHS II	black	-	✓	✓	5	3	20	0.25 <sup>2</sup> to 0.34 <sup>2</sup>	4-25	38
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.25 <sup>2</sup> to 0.34 <sup>2</sup>	3-15	40
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.25 <sup>2</sup> to 1 <sup>2</sup>	2-32	42
☞	REACH/RoHS II	black	✓	✓	✓	20	5	50	0.25 <sup>2</sup> to 1.5 <sup>2</sup>	6-20	44

Cable overview after part numbers ► Page 87

# Overview TRAXLINE cable types

Cable type	Outer jacket	Shield	Factor for K <sub>Rmin</sub> = n x Ø cable	Temperature moved	Approvals
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## BUS-fiber optic/coaxial cables

PROFIBUS 700 C / PROFINET 700 C		PUR	✓	15	-20 to +70 °C	
CAN-BUS 700 C		PUR	✓	7.5	-20 to +80 °C	
USB S 700 C / USB L 700 C / USB 3.0 CD		PUR	✓	10	-10 to +70 °C	
INTERBUS 700 C		PUR	✓	10	-30 to +70 °C	
CAT.5E / CAT.6 700 CD		PUR	✓	10	-30 to +80 °C	
KOAX 700 CD		PUR	✓	10	-20 to +70 °C	
FOC 700		PUR	–	7.5	-30 to +90 °C	

## OEM SYSTEM cables

SYSTEM S 700 C		PUR	✓	7.5	-35 to +90 °C	
SYSTEM M 700 C		PUR	✓	7.5	-35 to +90 °C	

## Power One Heavy Duty High voltage cable

POWER ONE HEAVY DUTY 10 kV / 11 kV / 12 kV		PUR	✓	7.5	-35 to +80 °C	
POWER ONE HEAVY DUTY 15 kV / 24 kV / 30 kV		PUR	✓	7.5	-35 to +80 °C	



Cable overview after part numbers ► Page 87

Standards	Colour type-dependent	Halogen-free	Flame-retardant	Oil-resistant	V <sub>max</sub> supported (m/s)	V <sub>max</sub> gliding (m/s)	a <sub>max</sub> (m/s <sup>2</sup> )	Diameter mm <sup>2</sup> /Type/Other	Core number	Page	
<b>46</b>											
☞	REACH/RoHS II	purple	✓	✓	✓	3.5	2	10	0.64 mm	2	46
☞	REACH/RoHS II	black	✓	✓	✓	3	3	10	0.5 <sup>2</sup>	2-4	48
☞	REACH/RoHS II	purple	✓	✓	✓	3.5	2	10	AWG 28 / 24 / 20	4	50
☞	REACH/RoHS II	purple	✓	✓	✓	3.5	2	10	0.25 <sup>2</sup>	6	52
☞	REACH/RoHS II	green	✓	✓	✓	3	3	5	0.15 <sup>2</sup>	8	54
☞	REACH/RoHS II	black	✓	✓	✓	3.5	3.5	10	HF 50/75 Ω	1-5	56
☞	REACH/RoHS II	black	✓	✓	-	3.5	3.5	10	50μ/62.5μ	6-12	58
<b>60</b>											
☞	REACH/RoHS II	green	✓	✓	✓	5	5	50	0.14 <sup>2</sup> to 0.1 <sup>2</sup>	3-16	60
☞	REACH/RoHS II	orange	✓	✓	✓	5	5	50	1 <sup>2</sup> to 50 <sup>2</sup>	4	62
<b>64</b>											
☞	REACH/RoHS II	red	✓	✓	✓	50	10 / 6	50	10 <sup>2</sup> to 400 <sup>2</sup>	1	64
☞	REACH/RoHS II	red	✓	✓	✓	50	10 / 6	50	10 <sup>2</sup> to 400 <sup>2</sup>	1	66



Cable overview after part numbers ► Page 87



# Overview TRAXLINE pre-assembled cables

## USB / CAT.5E / CAT.6

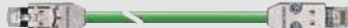
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USB 700 C pre-assembled



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CAT.5E 700 CD pre-assembled



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CAT.6 700 CD pre-assembled



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## Signal cables Cables with connections compatible with the OEM standards

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Signal basic cables



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Signal extension cables



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## Power cables Cables with connections compatible with OEM standards

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Power basic cables without brake wires



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Power extension cables without brake wires



71

Power basic cables with brake wires



72

Power extension cables with brake wires



72

# Technical Data, further information

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Cable overview after part numbers ► Page 87



# Efficient Design

## Accurate and fast

Shorten your design time, accelerate your design processes, do concept development with original data from the manufacturer. We continuously invest in the online supply of product-related information to make your work easier. Thereby you can access the latest product and CAD data already during the design phase. Currently, we provide comprehensive, technical information in three different, partly interlinked online tools.



completed your product configuration. Vice versa, data from OnlineEngineer can be retrieved while working in CADENAS.

### CADENAS-3D CAD Catalogue

CADENAS is an international platform for providing 3D models in various CAD formats. Numerous renowned companies from machinery and plant engineering as well as from other industries are represented. Currently, we provide CAD models for our entire product portfolio in all common CAD formats. Moreover, the database contains the corresponding models for guide channels and support trays. We continuously update the scope offered.



Our web-based platform OnlineEngineer that is available throughout the world supports you with multiple functions for selecting and configuring the right product for your application. Here, all relevant technical and commercial information about all individual products from the ranges of cable carriers, cables and accessories is centrally pooled and clearly displayed. By entering different parameters it facilitates to select the appropriate products

For even more convenience the data portals OnlineEngineer and CADENAS will be interlinked. This allows you to easily download the respective CAD model without leaving the OnlineEngineer once you have

### Electrical Engineering with EPLAN

EPLAN Data Portal is an integrated, web-based data platform delivering the most recent device data from market-leading component manufacturers for direct use in the EPLAN planning software. For those using the global project planning software EPLAN Electric P8, we offer technical and commercial information of our TRAXLINE cables in the EPLAN Data Portal for download.



For further information:  
[www.online-engineer.de](http://www.online-engineer.de)

# TOTALTRAX turn-key systems

## Fully harnessed cable carrier systems

The product you need – we support and supply it to you completely harnessed

### One supplier – one responsibility

We develop, design and supply all components required for your individual cable & hose carrier system.



■ Ready-to-connect assembled plastic cable carrier system, packed ready for installation

### Everything you need

- Consulting
- Planning
- Design
- Cable carriers
- Electrical cables
- Complete guarantee
- Hydraulic hoses
- Pneumatic hoses
- Plug-and-socket connectors
- Assembly plates
- Complete assembly of all components

- + One contact person
- + One order
- + One delivery
- + Guaranteed quality

= **TOTALTRAX Complete System**

### TOTALTRAX – from design to the complete system

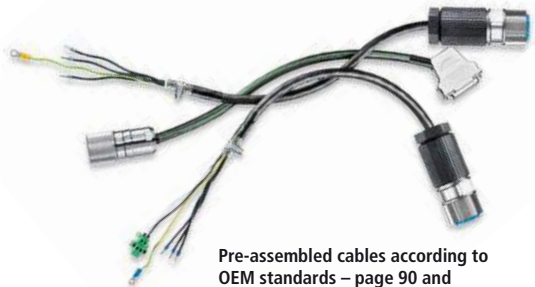


#### NOTE:

#### Harnessed cables according to all OEM

We manufacture KABELSCHLEPP **TRAXLINE** cables according to OEM specifications, suitable for all drive controls which consist of signal and power cables and/or extension cables.

- any cable length available
- delivery minimum: 1 unit



Pre-assembled cables according to OEM standards – page 90 and following.

## Cut costs with TOTALTRAX complete cable carrier systems

We help you . . .

- Advice on planning
- Support in the design phase
- Only one contact person for the complete system including all the individual components
- Complete delivery from a single source
- Only one supplier – one purchase order and one item number
- All components match each other perfectly
- Guarantee certificate upon requests

. . . to cut your costs!

- Goods receiving inspections for all individual components are no longer required
- Expensive technical personnel and special tools are no longer required
- Shorter assembly times
- No hidden costs, e.g. cables being cut to excessive lengths etc.
- Less captive capital with almost no inventory
- On-time delivery directly to your production site

## No storage costs for individual components like cables and connectors

Our warehouses offer cables, plug-and-socket connectors as well as many other individual components.



■ Complete system with reusable shipping fixture



■ Fully harnessed steel cable carrier



■ Plastic cable carrier fully harnessed with cables, hoses, connectors and holding plates

## Complete service – even for applications with extreme assembly conditions

Our service team can design and assemble your cable carrier system even for applications with extreme assembly conditions. Our service center experts provide you with the support you need.

- Complete assembly with guide channels
- Uncoiling of harnessed cable carrier systems with long travel lengths
- Assembly at great heights (e. g. crane systems)



■ Fully harnessed cable carrier system in shipping crate



■ Assembly of the fully harnessed cable carrier system

# TRAXLINE CONTROL 200

Unshielded continuous bending hi-flex PVC control cables



Picture obtainable.



**Core insulation**  
PP  
layered



**Outer jacket**  
PVC  
valley-sealed extruded  
hi-flex design  
UV-resistant  
ozone-resistant  
high abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant



Up to  
**2 million**  
motion cycles!



Up to  
**25 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- light to medium loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- flame-retardant
- silicone-free
- high abrasion resistant

## Design

**Conductor:** bare copper wires class 5  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores layered

**Outer jacket:** PVC

**Jacket colour:** black

## Technical Data

**Temperature range**  
while moved: - 5 to + 80 °C

**Minimum bend radius**  
while moved:  $KR_{min} \geq 10 \times \varnothing$

**v<sub>max</sub> supported:** 3,5 m/s

**v<sub>max</sub> gliding:** 2 m/s

**a<sub>max</sub>:** 10 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V  
according to UL 300 V

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Type selection

### TRAXLINE CONTROL 200 – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
2 x 0.5 <sup>2</sup>	47351	4.5	0.026	0.010
3 G 0.5 <sup>2</sup>	47352	4.7	0.031	0.014
4 G 0.5 <sup>2</sup>	47353	5.1	0.037	0.019
5 G 0.5 <sup>2</sup>	47354	5.5	0.045	0.024
7 G 0.5 <sup>2</sup>	47356	6.5	0.062	0.034
12 G 0.5 <sup>2</sup>	47360	7.6	0.090	0.058
18 G 0.5 <sup>2</sup>	47364	9.0	0.131	0.086
25 G 0.5 <sup>2</sup>	47367	11.4	0.195	0.120
3 G 0.75 <sup>2</sup>	47372	5.5	0.043	0.022
4 G 0.75 <sup>2</sup>	47373	6.1	0.055	0.029
5 G 0.75 <sup>2</sup>	47374	6.6	0.066	0.036
7 G 0.75 <sup>2</sup>	47376	7.7	0.088	0.050
12 G 0.75 <sup>2</sup>	47380	9.3	0.134	0.086
18 G 0.75 <sup>2</sup>	47384	11.2	0.197	0.130
25 G 0.75 <sup>2</sup>	47387	13.9	0.290	0.180
3 G 1.0 <sup>2</sup>	47392	6.0	0.054	0.029
4 G 1.0 <sup>2</sup>	47393	6.5	0.067	0.038
5 G 1.0 <sup>2</sup>	47394	7.0	0.079	0.048
7 G 1.0 <sup>2</sup>	47396	8.3	0.109	0.067
12 G 1.0 <sup>2</sup>	47400	10.2	0.168	0.115
18 G 1.0 <sup>2</sup>	47404	12.2	0.243	0.173
25 G 1.0 <sup>2</sup>	47407	15.1	0.363	0.240
3 G 1.5 <sup>2</sup>	47412	6.6	0.071	0.043
4 G 1.5 <sup>2</sup>	47413	7.1	0.087	0.058
5 G 1.5 <sup>2</sup>	47414	7.7	0.105	0.072
7 G 1.5 <sup>2</sup>	47416	9.2	0.144	0.101
12 G 1.5 <sup>2</sup>	47420	11.5	0.230	0.173
18 G 1.5 <sup>2</sup>	47424	13.4	0.330	0.259
25 G 1.5 <sup>2</sup>	47427	16.8	0.491	0.360
4 G 2.5 <sup>2</sup>	47433	8.9	0.141	0.096



Additional cable types upon request.

Sales terms and delivery conditions under [kabelschlepp.de](http://kabelschlepp.de)

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE CONTROL 200 C

Shielded continuous bending hi-flex PVC control cables



**Core insulation**  
PP  
layered



**Inner jacket**  
PVC  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
high flexural strength,  
tin-plated copper braiding  
for small bend radii



**Outer jacket**  
PVC  
pressure extruded  
hi-flex design  
high abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant



Up to  
**2 million**  
motion cycles!



Up to  
**25 m**  
travel length!

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- flame-retardant
- high abrasion resistant

## Design

**Conductor:** bare copper wires class 5  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores layered

**Inner jacket:** PVC

**Shielding:** coverage nom. 85 %

**Outer jacket:** PVC

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** - 5 to + 80 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 10 \times \varnothing$

**v<sub>max</sub> supported:** 3.5 m/s

**v<sub>max</sub> gliding:** 2 m/s

**a<sub>max</sub>:** 10 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V  
according to UL 300 V

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE CONTROL 200 C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(2 x 0.5 <sup>2</sup> )	<b>47651</b>	6.2	0.057	0.030
(3 G 0.5 <sup>2</sup> )	<b>47652</b>	6.4	0.062	0.036
(4 G 0.5 <sup>2</sup> )	<b>47653</b>	6.8	0.070	0.042
(5 G 0.5 <sup>2</sup> )	<b>47654</b>	7.2	0.081	0.048
(7 G 0.5 <sup>2</sup> )	<b>47656</b>	8.2	0.104	0.064
(12 G 0.5 <sup>2</sup> )	<b>47660</b>	9.7	0.149	0.105
(18 G 0.5 <sup>2</sup> )	<b>47664</b>	11.0	0.194	0.137
(25 G 0.5 <sup>2</sup> )	<b>47667</b>	13.6	0.283	0.210
(3 G 0.75 <sup>2</sup> )	<b>47672</b>	7.2	0.079	0.048
(4 G 0.75 <sup>2</sup> )	<b>47673</b>	7.6	0.090	0.055
(5 G 0.75 <sup>2</sup> )	<b>47674</b>	8.3	0.108	0.066
(7 G 0.75 <sup>2</sup> )	<b>47676</b>	9.8	0.147	0.085
(12 G 0.75 <sup>2</sup> )	<b>47680</b>	11.3	0.198	0.135
(18 G 0.75 <sup>2</sup> )	<b>47684</b>	13.4	0.284	0.190
(25 G 0.75 <sup>2</sup> )	<b>47687</b>	16.5	0.416	0.275
(3 G 1.0 <sup>2</sup> )	<b>47692</b>	7.7	0.091	0.059
(4 G 1.0 <sup>2</sup> )	<b>47693</b>	8.2	0.108	0.070
(5 G 1.0 <sup>2</sup> )	<b>47694</b>	8.7	0.124	0.084
(7 G 1.0 <sup>2</sup> )	<b>47696</b>	10.4	0.167	0.106
(12 G 1.0 <sup>2</sup> )	<b>47700</b>	12.1	0.232	0.174
(18 G 1.0 <sup>2</sup> )	<b>47704</b>	14.2	0.334	0.240
(25 G 1.0 <sup>2</sup> )	<b>47707</b>	17.5	0.486	0.332
(3 G 1.5 <sup>2</sup> )	<b>47712</b>	8.3	0.113	0.075
(4 G 1.5 <sup>2</sup> )	<b>47713</b>	8.8	0.133	0.090
(5 G 1.5 <sup>2</sup> )	<b>47714</b>	9.8	0.163	0.108
(7 G 1.5 <sup>2</sup> )	<b>47716</b>	11.2	0.207	0.157
(12 G 1.5 <sup>2</sup> )	<b>47720</b>	13.7	0.318	0.240
(18 G 1.5 <sup>2</sup> )	<b>47724</b>	15.8	0.440	0.355
(25 G 1.5 <sup>2</sup> )	<b>47727</b>	19.6	0.646	0.448



Additional cable types upon request.

Sales terms and delivery conditions under kabelschlepp.de

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0



# TRAXLINE CONTROL 400 600 V

Unshielded continuous bending hi-flex PVC control cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Outer jacket**  
PVC  
valley-sealed extruded  
hi-flex design  
high abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**4 million**  
motion cycles!



Up to  
**100 m**  
travel length!



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- medium to heavy loads
- long travel length

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

<b>Conductor:</b>	bare copper wires class 6 in an optimized hi-flex design
<b>Center element:</b>	type-dependent
<b>Core insulation:</b>	PP
<b>Core identification:</b>	black with white numbers, protective conductor green/yellow
<b>Core stranding:</b>	conductor cores bundled in short pitches with minimal torsion (> 8 cores) conductor cores layered in short pitches with minimal torsion (≤ 8 cores)
<b>Outer jacket:</b>	PVC
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range</b> while moved:	- 5 to + 80 °C
<b>Minimum bend radius</b> while moved:	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	5 m/s
<b>v<sub>max</sub> gliding:</b>	3 m/s
<b>a<sub>max</sub>:</b>	20 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 30 MΩ x km
<b>Rated voltage:</b>	according to VDE 300/500 V according to UL 600 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE CONTROL 400 600 V – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
2 x 0.5 <sup>2</sup>	48110	5.8	0.040	0.010
3 G 0.5 <sup>2</sup>	48111	6.1	0.047	0.014
4 G 0.5 <sup>2</sup>	48112	6.6	0.057	0.019
5 G 0.5 <sup>2</sup>	48113	7.0	0.063	0.025
7 G 0.5 <sup>2</sup>	48115	8.1	0.088	0.034
12 G 0.5 <sup>2</sup>	48119	10.7	0.145	0.063
18 G 0.5 <sup>2</sup>	48121	12.7	0.199	0.087
25 G 0.5 <sup>2</sup>	48124	14.4	0.267	0.130
30 G 0.5 <sup>2</sup>	48125	15.9	0.324	0.155
36 G 0.5 <sup>2</sup>	48126	17.5	0.404	0.185
48 G 0.5 <sup>2</sup>	48128	21.0	0.524	0.260
4 G 0.75 <sup>2</sup>	48040	7.2	0.068	0.029
5 G 0.75 <sup>2</sup>	48041	7.8	0.082	0.036
7 G 0.75 <sup>2</sup>	48042	8.9	0.106	0.051
12 G 0.75 <sup>2</sup>	48043	12.1	0.183	0.088
18 G 0.75 <sup>2</sup>	48044	14.5	0.268	0.138
25 G 0.75 <sup>2</sup>	48045	16.6	0.362	0.195
3 G 1.0 <sup>2</sup>	48046	6.9	0.065	0.029
4 G 1.0 <sup>2</sup>	48047	7.6	0.081	0.039
5 G 1.0 <sup>2</sup>	48048	8.2	0.097	0.050
7 G 1.0 <sup>2</sup>	48049	9.4	0.127	0.068
12 G 1.0 <sup>2</sup>	48050	12.7	0.212	0.125
18 G 1.0 <sup>2</sup>	48051	15.4	0.322	0.187
25 G 1.0 <sup>2</sup>	48052	17.7	0.438	0.260
3 G 1.5 <sup>2</sup>	48053	7.8	0.086	0.045
4 G 1.5 <sup>2</sup>	48054	7.8	0.095	0.058
5 G 1.5 <sup>2</sup>	48055	8.5	0.115	0.072
7 G 1.5 <sup>2</sup>	48056	10.8	0.171	0.101
12 G 1.5 <sup>2</sup>	48057	14.7	0.303	0.174
18 G 1.5 <sup>2</sup>	48058	18.0	0.462	0.280
25 G 1.5 <sup>2</sup>	48059	20.7	0.588	0.360
4 G 2.5 <sup>2</sup>	48060	9.7	0.152	0.096



# TRAXLINE CONTROL 400 C 600 V

Shielded continuous bending hi-flex PVC control cables



Picture obtainable.



Up to  
**4 million**  
motion cycles!



Up to  
**100 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- medium to heavy loads
- long travel length

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

<b>Conductor:</b>	bare copper wires class 6 in an optimized hi-flex design
<b>Center element:</b>	type-dependent
<b>Core insulation:</b>	PP
<b>Core identification:</b>	black with white numbers, protective conductor green/yellow
<b>Core stranding:</b>	conductor cores bundled in short pitches with minimal torsion (> 8 cores) conductor cores layered in short pitches with minimal torsion (≤ 8 cores)
<b>Inner jacket:</b>	PVC
<b>Shielding:</b>	coverage nom. 85 %
<b>Outer jacket:</b>	PVC
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	-5 to + 80 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	5 m/s
<b>v<sub>max</sub> gliding:</b>	3 m/s
<b>a<sub>max</sub>:</b>	20 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 30 MΩ x km
<b>Rated voltage:</b>	according to VDE 300/500 V according to UL 600 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Inner jacket**  
PVC  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PVC  
pressure extruded  
hi-flex design  
very abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Type selection

### TRAXLINE CONTROL 400 C 600 V – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(5 G 0,5 <sup>2</sup> )	48664	8,7	0,110	0,052
(7 G 0,5 <sup>2</sup> )	48666	9,8	0,136	0,066
(9 G 0,5 <sup>2</sup> )	48668	11,2	0,172	0,090
(12 G 0,5 <sup>2</sup> )	48670	12,7	0,220	0,106
(18 G 0,5 <sup>2</sup> )	48674	15,1	0,302	0,169
(25 G 0,5 <sup>2</sup> )	48678	17,2	0,405	0,223
(30 G 0,5 <sup>2</sup> )	48679	18,9	0,473	0,272
(36 G 0,5 <sup>2</sup> )	48680	20,6	0,552	0,302
(3 G 0,75 <sup>2</sup> )	48682	8,3	0,095	0,045
(4 G 0,75 <sup>2</sup> )	48070	8,9	0,111	0,055
(7 G 0,75 <sup>2</sup> )	48071	10,9	0,164	0,085
(12 G 0,75 <sup>2</sup> )	48072	14,3	0,278	0,151
(18 G 0,75 <sup>2</sup> )	48073	17,1	0,379	0,225
(25 G 0,75 <sup>2</sup> )	48074	19,6	0,516	0,295
(4 G 1,0 <sup>2</sup> )	48075	9,3	0,128	0,073
(7 G 1,0 <sup>2</sup> )	48076	11,4	0,190	0,115
(12 G 1,0 <sup>2</sup> )	48077	15,1	0,319	0,198
(18 G 1,0 <sup>2</sup> )	48078	18,2	0,447	0,272
(25 G 1,0 <sup>2</sup> )	48079	20,8	0,596	0,357
(4 G 1,5 <sup>2</sup> )	48080	10,4	0,161	0,085
(5 G 1,5 <sup>2</sup> )	48081	11,1	0,184	0,103
(7 G 1,5 <sup>2</sup> )	48082	12,9	0,249	0,148
(12 G 1,5 <sup>2</sup> )	48083	17,3	0,425	0,269
(18 G 1,5 <sup>2</sup> )	48084	20,9	0,601	0,382
(25 G 1,5 <sup>2</sup> )	48085	23,9	0,802	0,503
(30 G 1,5 <sup>2</sup> )	48086	26,7	0,977	0,635



Additional cable types upon request.

Sales terms and delivery conditions under kabelschlepp.de

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE CONTROL 700 600 V

Unshielded continuous bending hi-flex PUR control cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Outer jacket**  
PUR  
valley-sealed extruded  
hi-flex design  
extremely abrasion-  
resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** - 35 to + 90 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V  
according to UL 600 V

**Approvals:** CURus,  
based on VDE

varying parameters possible – please contact us

**Type selection****TRAXLINE CONTROL 700 600 V – unshielded**

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
2 x 0.5 <sup>2</sup>	45391	5.8	0.039	0.010
3 G 0.5 <sup>2</sup>	45392	6.1	0.045	0.014
4 G 0.5 <sup>2</sup>	45393	6.6	0.053	0.020
7 G 0.5 <sup>2</sup>	45396	8.1	0.085	0.035
12 G 0.5 <sup>2</sup>	45400	10.7	0.139	0.060
15 G 0.5 <sup>2</sup>	45401	11.7	0.162	0.072
16 G 0.5 <sup>2</sup>	45402	12.0	0.178	0.077
36 G 0.5 <sup>2</sup>	45412	18.2	0.392	0.198
49 G 0.5 <sup>2</sup>	45415	21.8	0.539	0.236
3 G 0.75 <sup>2</sup>	45421	6.6	0.055	0.023
4 G 0.75 <sup>2</sup>	45422	7.2	0.069	0.031
5 G 0.75 <sup>2</sup>	45423	7.8	0.083	0.038
7 G 0.75 <sup>2</sup>	45425	9.0	0.108	0.053
12 G 0.75 <sup>2</sup>	45429	11.9	0.181	0.096
18 G 0.75 <sup>2</sup>	45431	14.3	0.257	0.146
25 G 0.75 <sup>2</sup>	45434	16.3	0.362	0.209
36 G 0.75 <sup>2</sup>	45436	20.2	0.517	0.270
3 G 1.0 <sup>2</sup>	45441	7.0	0.067	0.029
4 G 1.0 <sup>2</sup>	45442	7.6	0.082	0.044
5 G 1.0 <sup>2</sup>	45443	8.2	0.097	0.048
7 G 1.0 <sup>2</sup>	45445	9.5	0.125	0.070
8 G 1.0 <sup>2</sup>	45446	10.3	0.145	0.077
12 G 1.0 <sup>2</sup>	45449	12.7	0.216	0.125
18 G 1.0 <sup>2</sup>	45451	15.4	0.315	0.210
25 G 1.0 <sup>2</sup>	45454	17.7	0.437	0.302
18 G 2.5 <sup>2</sup>	45497	22.0	0.696	0.450



Additional cable types upon request.

Sales terms and delivery conditions under kabelschlepp.de

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE CONTROL 700 C 600 V

Shielded continuous bending hi-flex PUR control cables



Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Inner jacket**  
TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**500 m**  
travel length!



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Inner jacket:** TPE

**Shielding:** coverage nom. 85 %

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** – 35 to + 90 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V  
according to UL 600 V

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us



## Type selection

### TRAXLINE CONTROL 700 C 600 V – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(3 G 0.5 <sup>2</sup> )	45701	7.9	0.081	0.036
(4 G 0.5 <sup>2</sup> )	45702	8.4	0.090	0.042
(5 G 0.5 <sup>2</sup> )	45703	8.9	0.103	0.048
(7 G 0.5 <sup>2</sup> )	45705	10.0	0.130	0.064
(12 G 0.5 <sup>2</sup> )	45709	12.7	0.201	0.109
(18 G 0.5 <sup>2</sup> )	45712	15.1	0.268	0.167
(25 G 0.5 <sup>2</sup> )	45715	17.2	0.360	0.212
(3 G 0.75 <sup>2</sup> )	45721	8.4	0.082	0.048
(4 G 0.75 <sup>2</sup> )	45722	9.0	0.109	0.055
(5 G 0.75 <sup>2</sup> )	45723	9.6	0.126	0.066
(7 G 0.75 <sup>2</sup> )	45725	11.0	0.158	0.087
(12 G 0.75 <sup>2</sup> )	45729	14.3	0.256	0.147
(18 G 0.75 <sup>2</sup> )	45732	16.6	0.348	0.222
(25 G 0.75 <sup>2</sup> )	45735	19.7	0.491	0.293
(3 G 1.0 <sup>2</sup> )	45741	8.8	0.104	0.059
(4 G 1.0 <sup>2</sup> )	45742	9.4	0.123	0.070
(5 G 1.0 <sup>2</sup> )	45743	10.0	0.139	0.084
(7 G 1.0 <sup>2</sup> )	45745	11.6	0.183	0.106
(12 G 1.0 <sup>2</sup> )	45749	15.1	0.297	0.174
(18 G 1.0 <sup>2</sup> )	45752	18.3	0.429	0.240
(25 G 1.0 <sup>2</sup> )	45755	20.6	0.550	0.332
(36 G 1 <sup>2</sup> )	45757	25.3	0.803	0.346
(49 G 1 <sup>2</sup> )	45759	29.9	1.114	0.471



# TRAXLINE POWER 400 1 kV

Unshielded continuous bending hi-flex PVC power cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Outer jacket**  
PVC  
valley-sealed extruded  
hi-flex design  
high abrasion-resistant



**Jacket colour** black  
ozone-resistant  
UV-resistant

Up to  
**4 million**  
motion cycles!

Up to  
**100 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- medium to heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Outer jacket:** PVC

**Jacket colour:** black (according to DESINA)

## Technical Data

**Temperature range**  
**while moved:** - 5 to + 80 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**$v_{max}$  supported:** 5 m/s

**$v_{max}$  gliding:** 3 m/s

**$a_{max}$ :** 20 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 0.6/1 kV  
according to UL 1 kV

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE POWER 400 1 kV – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
2 x 1.5 <sup>2</sup>	45200	7.4	0.074	0.031
3 G 1.5 <sup>2</sup>	45201	7.8	0.088	0.045
4 G 1.5 <sup>2</sup>	45202	8.4	0.109	0.060
5 G 1.5 <sup>2</sup>	45203	9.2	0.129	0.072
7 G 1.5 <sup>2</sup>	45205	10.8	0.173	0.105
12 G 1.5 <sup>2</sup>	45209	14.7	0.308	0.180
18 G 1.5 <sup>2</sup>	45211	18.0	0.453	0.270
20 G 1.5 <sup>2</sup>	45213	18.2	0.525	0.303
25 G 1.5 <sup>2</sup>	45214	21.1	0.627	0.405
3 G 2.5 <sup>2</sup>	45221	9.0	0.128	0.075
4 G 2.5 <sup>2</sup>	45222	9.8	0.158	0.100
5 G 2.5 <sup>2</sup>	45223	10.8	0.190	0.125
7 G 2.5 <sup>2</sup>	45225	12.7	0.259	0.168
12 G 2.5 <sup>2</sup>	45229	17.9	0.483	0.300
18 G 2.5 <sup>2</sup>	45231	22.2	0.706	0.450
25 G 2.5 <sup>2</sup>	45234	24.8	0.949	0.625
4 G 4.0 <sup>2</sup>	45242	11.6	0.233	0.160
5 G 4.0 <sup>2</sup>	45243	12.9	0.287	0.200
7 G 4.0 <sup>2</sup>	45245	15.3	0.399	0.280
4 G 6.0 <sup>2</sup>	45252	13.6	0.336	0.240
5 G 6.0 <sup>2</sup>	45253	15.1	0.410	0.288
7 G 6.0 <sup>2</sup>	45254	18.5	0.600	0.420
4 G 10 <sup>2</sup>	45262	17.0	0.542	0.400
5 G 10 <sup>2</sup>	45263	18.9	0.669	0.480
4 G 16 <sup>2</sup>	45272	21.0	0.861	0.640
5 G 16 <sup>2</sup>	45273	23.7	1.091	0.768
4 G 25 <sup>2</sup>	45282	25.7	1.308	1.000
4 G 35 <sup>2</sup>	45292	30.1	1.818	1.400
4 G 50 <sup>2</sup>	45302	34.6	2.545	1.910
4 G 70 <sup>2</sup>	45312	40.7	3.564	2.700



Additional cable types upon request.

Sales terms and delivery conditions under [kabelschlepp.de](http://kabelschlepp.de)

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE POWER 400 C 1 kV

Shielded continuous bending hi-flex PVC power cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Inner jacket**  
PVC  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending  
hi-flex, tin-plated  
copper braiding  
for smallest bend radii



**Outer jacket**  
PVC  
pressure extruded  
hi-flex design  
high abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**4 million**  
motion cycles!

Up to  
**100 m**  
travel length!



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- medium to heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

<b>Conductor:</b>	conductors class 6 of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-dependent
<b>Core insulation:</b>	PP
<b>Core identification:</b>	black with white numbers, protective conductor green/yellow
<b>Core stranding:</b>	conductor cores bundled in short pitches with minimal torsion (> 8 cores) conductor cores layered in short pitches with minimal torsion (≤ 8 cores)
<b>Inner jacket:</b>	PVC
<b>Shielding:</b>	coverage nom. 83 %
<b>Outer jacket:</b>	PVC
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	- 5 to + 80 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	5 m/s
<b>v<sub>max</sub> gliding:</b>	3 m/s
<b>a<sub>max</sub>:</b>	20 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 30 MΩ x km
<b>Rated voltage:</b>	according to VDE 0.6/1 kV according to UL 1 kV

**Approvals:** cURus, based on VDE  
varying parameters possible – please contact us

## Type selection

### TRAXLINE POWER 400 C 1 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(4 G 1.5 <sup>2</sup> )	47202	10.4	0.165	0.104
(4 G 2.5 <sup>2</sup> )	47222	11.8	0.222	0.148
(5 G 2.5 <sup>2</sup> )	47223	12.8	0.263	0.171
(7 G 2.5 <sup>2</sup> )	47225	15.1	0.365	0.235
(4 G 4.0 <sup>2</sup> )	47242	13.7	0.319	0.209
(5 G 4.0 <sup>2</sup> )	47243	15.1	0.412	0.273
(7 G 4.0 <sup>2</sup> )	47245	18.1	0.537	0.360
(4 G 6.0 <sup>2</sup> )	47252	16.1	0.450	0.307
(5 G 6.0 <sup>2</sup> )	47253	17.9	0.558	0.439
(4 G 10 <sup>2</sup> )	47262	20.0	0.701	0.520
(5 G 10 <sup>2</sup> )	47263	22.0	0.856	0.592
(4 G 16 <sup>2</sup> )	47272	24.5	1.088	0.746
(5 G 16 <sup>2</sup> )	47273	27.1	1.379	1.050
(4 G 25 <sup>2</sup> )	47282	29.3	1.578	1.163
(4 G 35 <sup>2</sup> )	47292	33.9	2.178	1.667



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE POWER 700 1 kV

Unshielded continuous bending hi-flex PUR power cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Outer jacket**  
PUR  
valley-sealed extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour** black  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** black with white numbers,  
protective conductor green/yellow

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Outer jacket:** PUR

**Jacket colour:** black (according to DESINA)

## Technical Data

**Temperature range**  
**while moved:** – 35 to + 90 °C

**Minimum bend radius**  
**while moved:** KR<sub>min</sub> ≥ 7.5 x Ø

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:** ≥ 30 MΩ x km

**Rated voltage:** according to VDE 0.6/1 kV  
according to UL 1 kV

**Approvals:** CURUS,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE POWER 700 1 kV – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
2 x 1.5 <sup>2</sup>	45500	7.4	0.074	0.029
3 G 1.5 <sup>2</sup>	45501	7.8	0.088	0.045
4 G 1.5 <sup>2</sup>	45502	8.4	0.109	0.058
5 G 1.5 <sup>2</sup>	45503	9.2	0.129	0.072
7 G 1.5 <sup>2</sup>	45505	10.8	0.173	0.105
12 G 1.5 <sup>2</sup>	45509	14.7	0.307	0.195
18 G 1.5 <sup>2</sup>	45511	18.0	0.452	0.270
25 G 1.5 <sup>2</sup>	45514	21.1	0.626	0.405
36 G 1.5 <sup>2</sup>	45516	26.2	0.904	0.540
2 x 2.5 <sup>2</sup>	45520	8.5	0.104	0.048
3 G 2.5 <sup>2</sup>	45521	9.0	0.127	0.075
4 G 2.5 <sup>2</sup>	45522	9.8	0.158	0.108
5 G 2.5 <sup>2</sup>	45523	10.8	0.190	0.125
7 G 2.5 <sup>2</sup>	45525	12.7	0.259	0.175
12 G 2.5 <sup>2</sup>	45529	17.9	0.482	0.300
18 G 2.5 <sup>2</sup>	45531	22.2	0.704	0.450
25 G 2.5 <sup>2</sup>	45534	24.8	0.947	0.625
36 G 2.5 <sup>2</sup>	45536	30.7	1.337	0.900
2 x 4.0 <sup>2</sup>	45540	9.9	0.146	0.080
3 G 4.0 <sup>2</sup>	45541	10.6	0.187	0.120
4 G 4.0 <sup>2</sup>	45542	11.6	0.233	0.154
7 G 4.0 <sup>2</sup>	45543	15.3	0.399	0.269
5 G 4.0 <sup>2</sup>	45544	12.9	0.284	0.240
12 G 4.0 <sup>2</sup>	45546	22.1	0.748	0.461
30 G 4.0 <sup>2</sup>	45549	33.6	1.774	1.152
3 G 6.0 <sup>2</sup>	45551	12.3	0.265	0.173
4 G 6.0 <sup>2</sup>	45552	13.6	0.336	0.240
5 G 6.0 <sup>2</sup>	45553	15.1	0.419	0.288
7 G 6.0 <sup>2</sup>	45555	18.5	0.599	0.403
3 G 10 <sup>2</sup>	45561	15.2	0.418	0.288
4 G 10 <sup>2</sup>	45562	17.0	0.541	0.384
5 G 10 <sup>2</sup>	45563	18.9	0.668	0.500
3 G 16 <sup>2</sup>	45564	18.8	0.672	0.461
4 G 16 <sup>2</sup>	45565	21.0	0.869	0.640
5 G 16 <sup>2</sup>	45566	23.7	1.089	0.800
3 G 25 <sup>2</sup>	45567	23.0	1.019	0.750
4 G 25 <sup>2</sup>	45568	25.7	1.306	1.000
5 G 25 <sup>2</sup>	45569	28.9	1.626	1.200
3 G 35 <sup>2</sup>	45570	26.7	1.395	1.008
4 G 35 <sup>2</sup>	45571	30.1	1.815	1.344
5 G 35 <sup>2</sup>	45560	33.7	2.249	1.750
3 G 50 <sup>2</sup>	45559	30.7	1.954	1.440
4 G 50 <sup>2</sup>	45572	34.6	2.541	1.920
4 G 70 <sup>2</sup>	45573	40.0	3.559	2.700
4 G 95 <sup>2</sup>	45574	45.3	4.451	3.800

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0



# TRAXLINE POWER ONE 700 1 kV

Unshielded continuous bending hi-flex PUR single-core cables



Picture obtainable.



**Core insulation**  
PUR  
wire bundles  
in short pitches



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**500 m**  
travel length!



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	conductors class 6 of bare copper wires in an optimized hi-flex design
<b>Core insulation:</b>	PUR
<b>Core stranding:</b>	single-core
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	black (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	- 35 to + 90 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	20 m/s
<b>v<sub>max</sub> gliding:</b>	5 m/s
<b>a<sub>max</sub>:</b>	50 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 100 kΩ x km
<b>Rated voltage:</b>	according to VDE 0.6/1 kV according to UL 1 kV
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Type selection

## TRAXLINE POWER ONE 700 1 kV – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
1 x 0.25 <sup>2</sup>	45575	4.1	0.017	0.002
1 x 0.34 <sup>2</sup>	45576	4.2	0.019	0.003
1 x 0.5 <sup>2</sup>	45577	4.3	0.021	0.005
1 x 0.75 <sup>2</sup>	45578	4.7	0.026	0.007
1 x 1.0 <sup>2</sup>	45579	4.9	0.029	0.010
1 x 1.5 <sup>2</sup>	45580	5.6	0.039	0.014
1 x 2.5 <sup>2</sup>	45581	6.2	0.053	0.025
1 x 4.0 <sup>2</sup>	45582	6.8	0.072	0.040
1 x 6.0 <sup>2</sup>	45583	7.4	0.094	0.060
1 x 10 <sup>2</sup>	45584	8.6	0.142	0.100
1 x 16 <sup>2</sup>	45585	9.7	0.204	0.154
1 x 25 <sup>2</sup>	45586	11.3	0.298	0.240
1 x 35 <sup>2</sup>	45587	12.7	0.397	0.350
1 x 50 <sup>2</sup>	45588	15.0	0.571	0.500
1 x 70 <sup>2</sup>	45589	17.0	0.785	0.700
1 x 95 <sup>2</sup>	45590	19.5	1.029	0.950
1 x 120 <sup>2</sup>	45591	21.4	1.285	1.200
1 x 150 <sup>2</sup>	45592	24.2	1.572	1.500
1 x 185 <sup>2</sup>	45593	26.6	1.919	1.850
1 x 240 <sup>2</sup>	45594	30.2	2.503	2.304
1 x 300 <sup>2</sup>	45595	34.4	3.119	2.880
1 x 400 <sup>2</sup>	45596	40.2	4.042	3.800
1 x 500 <sup>2</sup>	45597	42.8	5.142	5.000
1 x 700 <sup>2</sup>	45598	49.9	7.405	6.680

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE POWER ONE 700 PE

Unshielded, continuous bending highly-flexible PUR single-core cables with PE core identification

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PUR  
wire bundles  
in short pitches



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Core insulation:** PUR

**Core identification:** green/yellow

**Core stranding:** single-core

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** - 35 to + 90 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 100 \text{ k}\Omega \times \text{km}$

**Rated voltage:** according to VDE 0.6/1 kV  
according to UL 1 kV

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE POWER ONE 700 PE – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
1 G 1.5 <sup>2</sup>	47580	5.6	0.039	0.014
1 G 2.5 <sup>2</sup>	47581	6.2	0.053	0.025
1 G 4.0 <sup>2</sup>	47582	6.8	0.071	0.040
1 G 6.0 <sup>2</sup>	47583	7.4	0.094	0.060
1 G 10 <sup>2</sup>	47584	8.6	0.142	0.100
1 G 16 <sup>2</sup>	47585	9.7	0.203	0.154
1 G 25 <sup>2</sup>	47586	11.3	0.298	0.213
1 G 35 <sup>2</sup>	47587	12.7	0.397	0.302
1 G 50 <sup>2</sup>	47588	15.0	0.571	0.434
1 G 70 <sup>2</sup>	47589	17.0	0.785	0.700
1 G 95 <sup>2</sup>	47590	19.5	1.029	0.950
1 G 120 <sup>2</sup>	47591	21.4	1.285	1.200
1 G 150 <sup>2</sup>	47592	24.2	1.572	1.500
1 G 185 <sup>2</sup>	47593	26.6	1.919	1.850
1 G 240 <sup>2</sup>	47594	30.2	2.503	2.304



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE POWER 700 C 1 kV

Shielded continuous bending hi-flex PUR power cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Inner jacket**  
TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending  
hi-flex, tin-plated  
copper braiding for  
smallest bend radii



**Outer jacket**  
PUR  
pressure extruded,  
hi-flex design, extremely  
abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



CE  
RU



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	conductors class 6 of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-dependent
<b>Core insulation:</b>	PP
<b>Core identification:</b>	black with white numbers, protective conductor green/yellow
<b>Core stranding:</b>	conductor cores bundled in short pitches with minimal torsion (> 8 cores) conductor cores layered in short pitches with minimal torsion (≤ 8 cores)
<b>Inner jacket:</b>	TPE
<b>Shielding:</b>	coverage nom. 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	- 35 to + 90 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	20 m/s
<b>v<sub>max</sub> gliding:</b>	5 m/s
<b>a<sub>max</sub>:</b>	50 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 30 MΩ x km
<b>Rated voltage:</b>	according to VDE 0.6/1 kV according to UL 1 kV
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE POWER 700 C 1 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(2 x 1.5 <sup>2</sup> )	45760	9.2	0.112	0.064
(3 G 1.5 <sup>2</sup> )	45761	9.6	0.130	0.075
(4 G 1.5 <sup>2</sup> )	45762	10.5	0.158	0.089
(5 G 1.5 <sup>2</sup> )	45763	11.3	0.181	0.108
(7 G 1.5 <sup>2</sup> )	45765	13.0	0.239	0.148
(12 G 1.5 <sup>2</sup> )	45769	17.4	0.410	0.264
(18 G 1.5 <sup>2</sup> )	45772	21.7	0.585	0.362
(25 G 1.5 <sup>2</sup> )	45775	24.6	0.825	0.564
(36 G 1.5 <sup>2</sup> )	45777	30.0	1.171	0.698
(49 G 1.5 <sup>2</sup> )	45778	36.4	2.054	0.950
(3 G 2.5 <sup>2</sup> )	45780	11.0	0.176	0.110
(4 G 2.5 <sup>2</sup> )	45781	11.9	0.214	0.142
(5 G 2.5 <sup>2</sup> )	45783	12.9	0.253	0.170
(7 G 2.5 <sup>2</sup> )	45785	15.2	0.353	0.268
(12 G 2.5 <sup>2</sup> )	45787	21.1	0.617	0.421
(18 G 2.5 <sup>2</sup> )	45789	25.5	0.895	0.607
(20 G 2.5 <sup>2</sup> )	45790	25.7	0.943	0.621
(25 G 2.5 <sup>2</sup> )	45791	28.8	1.166	0.765
(4 G 4.0 <sup>2</sup> )	45801	13.8	0.306	0.211
(4 G 6.0 <sup>2</sup> )	45802	16.2	0.432	0.298
(4 G 10 <sup>2</sup> )	45803	20.1	0.671	0.526
(4 G 16 <sup>2</sup> )	45804	24.7	1.050	0.781
(5 G 16 <sup>2</sup> )	45812	27.7	1.289	0.904
(4 G 25 <sup>2</sup> )	45805	29.4	1.145	1.145
(4 G 35 <sup>2</sup> )	45806	34.0	1.667	1.667
(4 G 50 <sup>2</sup> )	45807	39.2	2.902	2.306
(4 G 70 <sup>2</sup> )	45808	45.8	4.016	3.045
(4 G 95 <sup>2</sup> )	45809	50.6	5.094	4.060
(4 G 120 <sup>2</sup> )	45810	56.2	6.230	5.128
(4 G 150 <sup>2</sup> )	45811	66.0	7.765	6.525



# TRAXLINE POWER ONE 700 C 1 kV

Shielded continuous bending hi-flex PUR single-core cables



Picture obtainable.



**Core insulation**  
PUR  
wire bundles  
in short pitches



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- power and supply cable
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Core insulation:** PUR

**Core stranding:** single-core

**Shielding:** coverage nom. 85 %

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range  
while moved:** – 35 to + 90 °C

**Minimum bend radius  
while moved:**  $K_{Rmin} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 100 \text{ k}\Omega \times \text{km}$

**Rated voltage:** according to VDE 0.6/1 kV  
according to UL 1 kV

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0



## Type selection

### TRAXLINE POWER ONE 700 C 1 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 1.5 <sup>2</sup> )	45814	6.1	0.054	0.029
(1 x 2.5 <sup>2</sup> )	45815	6.8	0.070	0.041
(1 x 4.0 <sup>2</sup> )	45816	7.4	0.091	0.059
(1 x 6.0 <sup>2</sup> )	45817	8.0	0.115	0.071
(1 x 10 <sup>2</sup> )	45818	9.2	0.167	0.122
(1 x 16 <sup>2</sup> )	45819	10.4	0.234	0.190
(1 x 25 <sup>2</sup> )	45820	11.9	0.332	0.289
(1 x 35 <sup>2</sup> )	45821	13.3	0.446	0.393
(1 x 50 <sup>2</sup> )	45822	15.6	0.630	0.560
(1 x 70 <sup>2</sup> )	45823	17.8	0.859	0.750
(1 x 95 <sup>2</sup> )	45824	20.3	1.112	1.029
(1 x 120 <sup>2</sup> )	45825	22.2	1.378	1.272
(1 x 150 <sup>2</sup> )	45826	25.2	1.703	1.578
(1 x 185 <sup>2</sup> )	45827	27.4	2.043	1.911
(1 x 240 <sup>2</sup> )	45828	31.1	2.638	2.451
(1 x 300 <sup>2</sup> )	45829	35.4	3.341	2.997



# TRAXLINE DATA 400 C

Shielded continuous bending hi-flex PVC control cables



Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Inner jacket**  
PVC  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PVC  
pressure extruded  
hi-flex design  
high abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**4 million**  
motion cycles!

Up to  
**50 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- medium to heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- ozone-resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

**Conductor:** bare copper wires class 6  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PVC

**Core identification:** core identification coloured according  
to DIN 47100

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Inner jacket:** PVC

**Shielding:** coverage nom. 83 %

**Outer jacket:** PVC

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** -5 to +80 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 5 m/s

**v<sub>max</sub> gliding:** 3 m/s

**a<sub>max</sub>:** 20 m/s<sup>2</sup>

**Insulation resistance:** ≥ 10 MΩ x km

**Rated voltage:** according to VDE 300/500 V  
according to UL 300 V

**Approvals:** cURus,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE DATA 400 C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(4 x 0.25 <sup>2</sup> )	<b>48623</b>	6.9	0.062	0.029
(8 x 0.25 <sup>2</sup> )	<b>48627</b>	8.4	0.093	0.056
(25 x 0.25 <sup>2</sup> )	<b>48638</b>	12.7	0.212	0.134
(4 x 0.34 <sup>2</sup> )	<b>48647</b>	7.3	0.071	0.027
(5 x 0.34 <sup>2</sup> )	<b>48648</b>	7.7	0.079	0.030
(7 x 0.34 <sup>2</sup> )	<b>48649</b>	8.5	0.099	0.040

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE DATA 700

Unshielded continuous bending hi-flex PUR control cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
bundled stranding  
(> 8 cores)



**Outer jacket**  
PUR  
valley-sealed extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour** black  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**200 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- systems engineering and mechanical engineering
- crane and conveyor equipment
- monitoring, measuring and control cables
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Center element:** type-dependent

**Core insulation:** PP

**Core identification:** core identification coloured according to  
DIN 47100

**Core stranding:** conductor cores bundled in short pitches  
with minimal torsion (> 8 cores)  
conductor cores layered in short pitches  
with minimal torsion (≤ 8 cores)

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** – 35 to + 90 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V,  
according to UL 300 V

**Approvals:** CURUS,  
based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE DATA 700 – unshielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
6 x 0.25 <sup>2</sup>	45355	6.1	0.046	0.014
7 x 0.25 <sup>2</sup>	45356	6.4	0.048	0.017
8 x 0.25 <sup>2</sup>	45357	6.8	0.054	0.019
9 x 0.25 <sup>2</sup>	45358	7.2	0.060	0.023
10 x 0.25 <sup>2</sup>	45359	7.6	0.070	0.024
12 x 0.25 <sup>2</sup>	45360	8.4	0.084	0.029
15 x 0.25 <sup>2</sup>	45361	9.1	0.098	0.039
3 x 0.34 <sup>2</sup>	45372	5.3	0.034	0.010
4 x 0.34 <sup>2</sup>	45373	5.6	0.039	0.014
5 x 0.34 <sup>2</sup>	45374	6.0	0.046	0.017
7 x 0.34 <sup>2</sup>	45376	6.9	0.062	0.024
8 x 0.34 <sup>2</sup>	45377	7.4	0.070	0.027
12 x 0.34 <sup>2</sup>	45380	9.1	0.103	0.041
15 x 0.34 <sup>2</sup>	45382	9.9	0.122	0.053



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE DATA 700 TPI C

Shielded continuous bending hi-flex PUR data cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
stranded in pairs



**Inner jacket**  
TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**200 m**  
travel length!



## Developed for

- measurement and control equipment
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-stable
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Core insulation:** PP

**Core identification:** according to DIN 47100

**Core stranding:** cores bundled in pairs in short pitches  
with minimal torsion

**Inner jacket:** TPE

**Shielding:** coverage nom. 85 %

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range**  
**while moved:** - 35 to + 90 °C

**Minimum bend radius**  
**while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**v<sub>max</sub> supported:** 20 m/s

**v<sub>max</sub> gliding:** 5 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 30 \text{ M}\Omega \times \text{km}$

**Rated voltage:** according to VDE 300/500 V  
according to UL 300 V

**Approvals:** CURus,  
based on VDE

varying parameters possible – please contact us

Subject to change.

## Type selection

### TRAXLINE DATA 700 TPI C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 0.25 <sup>2</sup> )	45622	6.5	0.046	0.016
(2 x 2 x 0.25 <sup>2</sup> )	45623	8.1	0.075	0.023
(3 x 2 x 0.25 <sup>2</sup> )	45624	8.6	0.086	0.037
(4 x 2 x 0.25 <sup>2</sup> )	45625	9.2	0.104	0.045
(5 x 2 x 0.25 <sup>2</sup> )	45626	9.8	0.127	0.057
(6 x 2 x 0.25 <sup>2</sup> )	45627	10.4	0.133	0.061
(8 x 2 x 0.25 <sup>2</sup> )	45628	11.5	0.166	0.086
(10 x 2 x 0.25 <sup>2</sup> )	45629	13.1	0.196	0.095
(12 x 2 x 0.25 <sup>2</sup> )	45630	12.2	0.187	0.100
(14 x 2 x 0.25 <sup>2</sup> )	45631	12.7	0.209	0.109
(16 x 2 x 0.25 <sup>2</sup> )	45632	13.2	0.226	0.124
(1 x 2 x 0.5 <sup>2</sup> )	45634	7.0	0.059	0.024
(2 x 2 x 0.5 <sup>2</sup> )	45635	9.3	0.102	0.050
(3 x 2 x 0.5 <sup>2</sup> )	45636	9.9	0.121	0.058
(4 x 2 x 0.5 <sup>2</sup> )	45637	10.7	0.135	0.078
(5 x 2 x 0.5 <sup>2</sup> )	45638	11.7	0.164	0.091
(6 x 2 x 0.5 <sup>2</sup> )	45639	12.9	0.174	0.106
(8 x 2 x 0.5 <sup>2</sup> )	45640	13.7	0.216	0.144
(10 x 2 x 0.5 <sup>2</sup> )	45641	15.6	0.284	0.178
(12 x 2 x 0.5 <sup>2</sup> )	45642	15.2	0.287	0.204
(14 x 2 x 0.5 <sup>2</sup> )	45643	16.3	0.325	0.218
(1 x 2 x 0.75 <sup>2</sup> )	45646	7.6	0.069	0.029
(2 x 2 x 0.75 <sup>2</sup> )	45647	10.3	0.135	0.068
(4 x 2 x 0.75 <sup>2</sup> )	45649	11.9	0.185	0.105
(5 x 2 x 0.75 <sup>2</sup> )	45650	12.7	0.207	0.124
(6 x 2 x 0.75 <sup>2</sup> )	45651	13.8	0.246	0.155
(8 x 2 x 0.75 <sup>2</sup> )	45652	16.1	0.315	0.215
(12 x 2 x 0.75 <sup>2</sup> )	45654	18.2	0.409	0.293



# TRAXLINE DATA 700 TPI CD / POWER 700 TPI CD 1 kV

Double-shielded continuous bending hi-flex PUR data cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
stranded in pairs



**Pair shield**  
continuous bending hi-flex,  
tin-plated braided copper shield



**Inner jacket**  
TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!

Up to  
**500 m**  
travel length!



## Developed for

- measurement and control equipment
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- hi-flex design
- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- metermarked
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	conductors class 6 of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-optimized
<b>Core insulation:</b>	PP
<b>Core identification:</b>	according to DIN 47100 part number 45667, 45669, 45679: black with white numbers
<b>Core stranding:</b>	cores bundled in pairs in short pitches with minimal torsion
<b>Inner jacket pairs:</b>	TPE
<b>Inner jacket:</b>	TPE
<b>Shielding:</b>	coverage nom. 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	- 35 to + 90 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	20 m/s
<b>v<sub>max</sub> gliding:</b>	5 m/s
<b>a<sub>max</sub>:</b>	50 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 30 MΩ x km
<b>Rated voltage:</b>	according to VDE 300/300 V according to UL 300 V part number 45667, 45669, 45679: according to VDE 0.6/1 kV according to UL 1 kV

**Approvals:** cURus,  
based on VDE  
varying parameters possible – please contact us

Subject to change.



## Type selection

### TRAXLINE DATA 700 TPI CD – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(3 x (2 x 0.25 <sup>2</sup> ))	<b>45661</b>	13.1	0.212	0.077
(4 x (2 x 0.5 <sup>2</sup> ))	<b>45662</b>	15.4	0.310	0.158
(10 x (2 x 0.5 <sup>2</sup> ))	<b>45664</b>	26.1	0.824	0.335
(16 x (2 x 0.5 <sup>2</sup> ))	<b>45665</b>	27.5	0.970	0.391



### TRAXLINE POWER 700 TPI CD 1 kV – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(2 x (2 x 1.5 <sup>2</sup> ))	<b>45667</b>	19.4	0.415	0.194
(6 x (2 x 1.5 <sup>2</sup> ))	<b>45669</b>	27.0	0.928	0.437
(10 x (2 x 1.5 <sup>2</sup> ))	<b>45679</b>	37.5	1.771	0.803

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE PROFIBUS 700 C / PROFINET 700 C

Shielded continuous bending hi-flex Profibus PUR cables



Picture obtainable.



**Core insulation**  
PP/TPE  
centrally  
stranded



**Inner jacket**  
PP/TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
Coverage: approx. 90 %  
and foil shield



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant

Up to  
**7 million**  
motion cycles!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers

Up to  
**100 m**  
travel length!



## Developed for

- Profibus applications
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- oil-resistant
- UV-stable
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	extremely fine stranded conductors of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-optimized
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	coloured, Profibus
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Inner jacket:</b>	PP/TPE
<b>Shielding:</b>	coverage 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	purple (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	- 20 to + 70 °C / # 45689 90 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 15 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	3.5 m/s
<b>v<sub>max</sub> gliding:</b>	2 m/s
<b>a<sub>max</sub>:</b>	10 m/s <sup>2</sup>
<b>Insulation resistance:</b>	$\geq 10 \text{ M}\Omega \times \text{km}$
<b>Rated voltage:</b>	according to VDE 300/300 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Type selection

### TRAXLINE PROFIBUS 700 C 90 °C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 0.64)	<b>45689</b>	8.5	0.070	0.026



### TRAXLINE PROFIBUS 700 C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 0.64)	<b>45690</b>	8.4	0.070	0.025



### TRAXLINE PROFINET 700 C – geschirmt

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(4 x 1 x 0.5 <sup>2</sup> )	<b>45692</b>	6.9	0.065	0.050



# TRAXLINE CAN-BUS 700 C

Shielded continuous bending hi-flex and robust PUR bus cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP/TPE  
star quad  
stranded



**Inner jacket**  
PP/TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii  
Coverage: approx. 85 %



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**200 m**  
travel length!



## Developed for

- CAN bus applications
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- oil-resistant
- UV-stable
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	extremely fine stranded conductors of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-optimized
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	coloured, CAN-BUS
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Inner jacket:</b>	PP/TPE
<b>Shielding:</b>	coverage 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	-20 to +80 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$ (-5 to +70 °C)
<b>v<sub>max</sub> supported:</b>	3 m/s
<b>v<sub>max</sub> gliding:</b>	3 m/s
<b>a<sub>max</sub>:</b>	10 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 10 MΩ x km
<b>Rated voltage:</b>	according to VDE 300/300 V according to UL 300 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE CAN-BUS 700 C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 0.5 <sup>2</sup> )	<b>45670</b>	8.6	0.087	0.034
(4 x 1 x 0.5 <sup>2</sup> )	<b>45672</b>	8.4	0.093	0.045

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE USB S 700 C / USB L 700 C / USB 3.0 CD

Shielded continuous bending hi-flex USB PUR cables



**Core insulation**  
PP/TPE  
centrically  
stranded



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
Coverage: approx. 90 %  
and foil shield



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
UV-resistant  
extremely abrasion-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**5 / 10 m**  
travel length!



## Developed for

- USB applications
- data and image transmission
- transmission lengths up to 5/10 m
- extremely heavy loads

## Properties

- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- ozone-resistant
- CFC-free
- silicone-free
- flame-retardant
- NEK606

## Design

<b>Conductor:</b>	extremely fine stranded conductors of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	type-optimized
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	coloured, red, black/white, white, green
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Shielding:</b>	coverage 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	purple (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	- 10 to + 70 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 10$
<b>v<sub>max</sub> supported:</b>	3,5 m/s
<b>v<sub>max</sub> gliding:</b>	2 m/s
<b>a<sub>max</sub>:</b>	10 m/s <sup>2</sup>
<b>Insulation resistance:</b>	$\geq 10 \text{ M}\Omega \times \text{km}$
<b>Rated voltage:</b>	according to VDE 300 V according to UL 300 V
<b>Transmission length:</b>	nom. 5 m nom. 10 m
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

## Type selection

### TRAXLINE USB S 700 C

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 28 AWG + 2 x 20 AWG )	<b>45686</b>	5.2	0.045	0.030



### TRAXLINE USB L 700 C

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 2 x 24 AWG + 1 x 2 x 20 AWG )	<b>45687</b>	6.5	0.056	0.040



### TRAXLINE USB 3.0 CD

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(2 x 2 x AWG 28 + 2 x (1 x 2 x AWG 28))	<b>45688</b>	6.8	0.062	0.042



# TRAXLINE INTERBUS 700 C

Shielded continuous bending hi-flex Interbus PUR cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP/TPE  
concentrically  
stranded



**Inner jacket**  
PP/TPE  
valley-sealed,  
pressure extruded,  
hi-flex design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii  
Coverage: approx. 85 %



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
UV-resistant  
extremely abrasion-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**200 m**  
travel length!



## Developed for

- Interbus applications
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- oil-resistant
- UV-stable
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- ozone-resistant
- NEK606

## Design

<b>Conductor:</b>	extremely fine stranded conductors of bare copper wires in an optimized hi-flex design
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	coloured, Interbus
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Inner jacket:</b>	PP/TPE
<b>Shielding:</b>	coverage 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	purple (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	- 30 to + 70 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 10 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	3.5 m/s
<b>v<sub>max</sub> gliding:</b>	2 m/s
<b>a<sub>max</sub>:</b>	10 m/s <sup>2</sup>
<b>Insulation resistance:</b>	$\geq 10 \text{ M}\Omega \times \text{km}$
<b>Rated voltage:</b>	according to VDE, $\varnothing 0.25 \text{ mm}^2 \text{ 30 V}$ $\varnothing 1 \text{ mm}^2 \text{ 300/300 V}$ according to UL 300 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us



## Type selection

### TRAXLINE INTERBUS 700 C – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(3 x 2 x 0.25 <sup>2</sup> )	45676	8.3	0.085	0.047

More information:  
[traxline.com](http://traxline.com)[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE CAT.5E / CAT.6 700 CD

Double-shielded continuous bending hi-flex CAT.5E / CAT.6 PUR cable



Picture obtainable.



**Core insulation**  
PP/TPE  
concentrically  
stranded



**Overall double-shielding**  
continuous bending hi-flex,  
tin-plated copper braiding  
Coverage: approx. 90 %  
and foil shield



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
UV-resistant  
extremely abrasion-resistant

Up to  
**7 million**  
motion cycles!



Up to  
**60 m**  
travel length!



## Developed for

- computer cables
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- NEK606
- CFC-free
- silicone-free
- flame-retardant
- high abrasion resistant

## Design

<b>Conductor:</b>	extremely fine stranded conductors of bare copper wires in an optimized hi-flex design
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	coloured, white/blue, blue, white/orange, orange, white/green, green, white/brown, brown
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Shielding:</b>	coverage 85 %
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	green (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	- 30 to + 80 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 10 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	3 m/s
<b>v<sub>max</sub> gliding:</b>	3 m/s
<b>a<sub>max</sub>:</b>	5 m/s <sup>2</sup>
<b>Insulation resistance:</b>	$\geq 10 \text{ M}\Omega \times \text{km}$
<b>Rated voltage:</b>	according to VDE 30 V according to UL 30 V
<b>Approvals:</b>	CURus, based on VDE

varying parameters possible – please contact us

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Type selection

### TRAXLINE CAT.5E 700 CD – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
((4 x 2 x 26 AWG ))	<b>45693</b>	7.1	0.056	0.031



### TRAXLINE CAT.6 700 CD – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
((4 x 2 x AWG 26))	<b>45684</b>	8.0	0.065	0.034



# TRAXLINE KOAX 700 CD

Double-shielded continuous bending hi-flex PUR data cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Coax cable**  
flexible,  
continuous bending hi-flex



**Core insulation**  
PP/TPE  
concentrically  
stranded



**Element shield**  
continuous bending hi-flex  
copper braiding  
– see type/design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii  
Coverage: approx. 90 %



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant  
UV-resistant

Up to  
**2 million**  
motion cycles!

Up to  
**50 m**  
travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for  
cable carriers



## Developed for

- image transmission
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- oil-resistant
- UV-resistant
- REACH/RoHS II
- flame-retardant
- NEK606
- CFC-free
- silicone-free
- halogen-free
- high abrasion resistant

## Design

**Conductor:** conductors class 6  
of bare copper wires  
in an optimized hi-flex design

**Core insulation:** type dependent

**Core identification:** black with white numbers

**Core stranding:** optimized stranding with maximum flexural strength

**Shielding:** part number 45694; coverage 90 %

**Outer jacket:** PUR

**Jacket colour:** black

## Technical Data

**Temperature range while moved:** – 20 to + 70 °C

**Minimum bend radius while moved:**  $KR_{min} \geq 10 \times \varnothing$

**v<sub>max</sub> supported:** 3.5 m/s

**v<sub>max</sub> gliding:** 3.5 m/s

**a<sub>max</sub>:** 10 m/s<sup>2</sup>

**Rated voltage:** type dependent

**Approvals:** type dependent

varying parameters possible – please contact us

Subject to change.

## Type selection

### TRAXLINE KOAX 700 CD 50 Ohm – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
1 x (1HF50) 50 Ohm	<b>45680</b>	5.6	0.059	0.022
(3 x (1HF50)) 50 Ohm	<b>45683</b>	11.2	0.140	0.063
(5 x (1HF50)) 50 Ohm	<b>45685</b>	14.0	0.230	0.099



### TRAXLINE KOAX 700 CD 75 Ohm – double-shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
1 x (1HF75) 75 Ohm	<b>45691</b>	5.6	0.060	0.018
(3 x (1HF75)) 75 Ohm	<b>45694</b>	11.2	0.142	0.070
(5 x (1HF75)) 75 Ohm	<b>45695</b>	14.0	0.234	0.089



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE FOC 700

Continuous bending hi-flex multi-mode glass fiber optic cable

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Fiber-optic cable glass**  
flexible, continuous bending hi-flex, aramid fiber protection



**Core insulation PP/TPE**  
centrically stranded



**Outer jacket PUR**  
pressure extruded hi-flex design UV-resistant extremely abrasion-resistant



**Jacket colour black**  
ozone-resistant UV-resistant

Up to **7 million** motion cycles!

Up to **500 m** travel length!

TSUBAKI KABELSCHLEPP  
TRAXLINE  
cables for cable carriers



## Developed for

- light signal transmission
- sensor equipment
- data and signal cables
- extremely heavy loads

## Properties

- halogen-free
- Multimode 1300 nm
- REACH/RoHS II
- absolutely EMC safety
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- metal-free
- NEK606

## Design

<b>Conductor:</b>	glass
<b>Conductor insulation:</b>	PP/TPE
<b>Conductor identification:</b>	coloured, colour coded
<b>Conductor stranding:</b>	concentrically around center element
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	black

## Technical Data

<b>Temperature range while moved:</b>	- 30 to + 90 °C
<b>Minimum bend radius while moved:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	3.5 m/s
<b>v<sub>max</sub> gliding:</b>	3.5 m/s
<b>a<sub>max</sub>:</b>	10 m/s <sup>2</sup>
<b>Approvals:</b>	IEC 60794 IEC 61300

varying parameters possible – please contact us

## Type selection

### TRAXLINE FOC 700

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m
6 G 50/125	45696	13.4	0.140
6 G 62.5/125	45697	13.4	0.140
12 G 50/125	45698	13.4	0.140
12 G 62.5/125	45699	13.4	0.140



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE SYSTEM S 700 C

Shielded continuous bending hi-flex PUR signal cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
hybrid stranded



**Element shield**  
continuous bending hi-flex,  
in-plated braided copper shield  
with the option of foil shield  
– see type/design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii  
Coverage: approx. 80 %



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
UV-resistant  
extremely abrasion-resistant

Up to  
**5 million**  
motion cycles!



Up to  
**50 m**  
travel length!



## Developed for

- KS alternative to OEM standards
- long transmission distances
- servo drives
- extremely heavy loads

## Properties

- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- DESINA
- NEK606

## Design

<b>Conductor:</b>	extra-fine wire conductor made from bare or tin-plated copper wires, design-optimized for maximum flexural strength
<b>Center element:</b>	type-optimized
<b>Core insulation:</b>	PP/TPE
<b>Core identification:</b>	according to OEM specifications (type-dependent)
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Shielding:</b>	coverage 80/85 % (type-dependent)
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	green (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	-35 to +90 °C
<b>Minimum bend radius while moved*:</b>	$KR_{min} \geq 7.5 \times \varnothing$
<b>v<sub>max</sub> supported:</b>	5 m/s
<b>v<sub>max</sub> gliding:</b>	5 m/s
<b>a<sub>max</sub>:</b>	50 m/s <sup>2</sup>
<b>Insulation resistance:</b>	$\geq 10 \text{ M}\Omega \times \text{km}$
<b>Rated voltage:</b>	OEM type-dependent
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

Subject to change.



## Type selection

### TRAXLINE SYSTEM S 700 C – shielded

KS alternative to OEM standard	core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
6FX8008 1BD11	(8 x 2 x 0.18 <sup>2</sup> )	<b>46100</b>	8.0	0.088	0.054
6FX8008 1DC00	(2 x 2 x 0.20 <sup>2</sup> + 1 x 2 x 0.38 <sup>2</sup> )	<b>46104</b>	7.1	0.072	0.041
6FX8008 1BD21	(4 x 2 x 0.38 <sup>2</sup> + 4 x 0.5 <sup>2</sup> )	<b>46105</b>	9.1	0.116	0.083
6FX8008 1BD31	(3 x (2 x 0.14 <sup>2</sup> ) + 2 x (0.5 <sup>2</sup> ))	<b>46110</b>	9.2	0.125	0.074
6FX8008 1BD41	(3 x (2 x 0.14 <sup>2</sup> ) + 4 x 0.14 <sup>2</sup> + 2 x 0.5 <sup>2</sup> )	<b>46115</b>	9.0	0.110	0.066
6FX8008 1BD51	(3 x (2 x 0.14 <sup>2</sup> ) + 4 x 0.14 <sup>2</sup> + 4 x 0.23 <sup>2</sup> + 2 x 0.5 <sup>2</sup> )	<b>46120</b>	9.6	0.129	0.075
6FX8008 1BD61	(4 x 2 x 0.18 <sup>2</sup> )	<b>46125</b>	6.6	0.060	0.035
6FX8008 1BD71	(2 x 2 x 0.18 <sup>2</sup> )	<b>46130</b>	5.2	0.038	0.024
6FX8008 1BD81	(12 x 0.22 <sup>2</sup> )	<b>46135</b>	7.1	0.076	0.065

KS alternative to OEM standard	core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
INK 0448	(4 x 2 x 0.25 <sup>2</sup> + 2 x 0.5 <sup>2</sup> )	<b>46400</b>	8.8	0.103	0.051
INK 0209	(4 x 2 x 0.25 <sup>2</sup> + 2 x 1 <sup>2</sup> )	<b>46410</b>	9.1	0.118	0.064
INK 0280	(3 x 0.25 <sup>2</sup> + 3 x (2 x 0.25 <sup>2</sup> ) + 2 x 1 <sup>2</sup> )	<b>46412</b>	9.3	0.130	0.084
INK 0532	(2 x 0.14 <sup>2</sup> + (4 x 0.14 <sup>2</sup> ) + 4 x 1 <sup>2</sup> )	<b>46415</b>	9.8	0.140	0.081

KS alternative to OEM standard	core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
–	(4 x 2 x 0.14 <sup>2</sup> + 4 x 0.5 <sup>2</sup> )	<b>46505</b>	8.8	0.102	0.052

KS alternative to OEM standard	core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
–	(5 x 2 x 0.14 <sup>2</sup> + 2 x 0.5 <sup>2</sup> )	<b>46090</b>	9.0	0.093	0.072



Additional cable types upon request.

Sales terms and delivery conditions under [kabelschlepp.de](http://kabelschlepp.de)

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE SYSTEM M 700 C

Shielded continuous bending hi-flex PUR motor/servo drive cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



**Core insulation**  
PP  
hybrid stranded



**Element shield**  
continuous bending hi-flex,  
in-plated braided copper shield  
with the option of foil shield  
– see type/design



**Overall shield**  
continuous bending hi-flex,  
tin-plated copper braiding  
for smallest bend radii  
Coverage: approx. 80 %



**Outer jacket**  
PUR  
pressure extruded  
hi-flex design  
UV-resistant  
extremely abrasion-resistant

Up to  
**5 million**  
motion cycles!



Up to  
**50 m**  
travel length!



## Developed for

- KS alternative to OEM standards
- long transmission distances
- motors/servo drives
- extremely heavy loads

## Properties

- oil-resistant
- UV-resistant
- REACH/RoHS II
- halogen-free
- high abrasion resistant
- CFC-free
- silicone-free
- flame-retardant
- DESINA
- NEK606

## Design

<b>Conductor:</b>	finely stranded conductors of bare copper wires in an optimized hi-flex design
<b>Center element:</b>	NEW – OEM types-optimized
<b>Core insulation:</b>	PP
<b>Core identification:</b>	according to OEM specifications (type-dependent)
<b>Core stranding:</b>	cores type-optimized stranded in short pitches with minimal torsion
<b>Shielding:</b>	coverage 80/85 % (type-dependent)
<b>Outer jacket:</b>	PUR
<b>Jacket colour:</b>	orange (according to DESINA)

## Technical Data

<b>Temperature range while moved:</b>	– 35 to + 90 °C
<b>Minimum bend radius while moved*:</b>	≤ 16 mm <sup>2</sup> : KR <sub>min</sub> ≥ 7.5 x Ø ≥ 25 mm <sup>2</sup> : KR <sub>min</sub> ≥ 7.5 x Ø
<b>v<sub>max</sub> supported:</b>	5 m/s
<b>v<sub>max</sub> gliding:</b>	5 m/s
<b>a<sub>max</sub>:</b>	50 m/s <sup>2</sup>
<b>Insulation resistance:</b>	≥ 10 MΩ x km
<b>Rated voltage:</b>	1000 V
<b>Approvals:</b>	cURus, based on VDE

varying parameters possible – please contact us

Subject to change.

## Type selection

### TRAXLINE SYSTEM M 700 C – shielded

KS alternative to OEM standard	type KS / construction	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
6FX8008 1BB11	(4 G 1.5 <sup>2</sup> )	<b>46200</b>	9.5	0.136	0.080
6FX8008 1BB21	(4 G 2.5 <sup>2</sup> )	<b>46205</b>	11.0	0.198	0.120
6FX8008 1BB31	(4 G 4 <sup>2</sup> )	<b>46210</b>	12.3	0.273	0.195
6FX8008 1BB41	(4 G 6 <sup>2</sup> )	<b>46215</b>	14.9	0.393	0.296
6FX8008 1BB51	(4 G 10 <sup>2</sup> )	<b>46220</b>	18.2	0.616	0.445
6FX8008 1BB61	(4 G 16 <sup>2</sup> )	<b>46225</b>	22.3	0.949	0.730
6FX8008 1BB25	(4 G 25 <sup>2</sup> )	<b>46230</b>	26.2	1.495	1.100
6FX8008 1BB35	(4 G 35 <sup>2</sup> )	<b>46235</b>	29.5	1.770	1.522
6FX8008 1BB50	(4 G 50 <sup>2</sup> )	<b>46240</b>	34.4	2.530	2.165
6FX8008 1BA11	(4 G 1.5 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46150</b>	12.0	0.221	0.136
6FX8008 1BA21	(4 G 2.5 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46155</b>	13.8	0.285	0.187
6FX8008 1BA31	(4 G 4 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46160</b>	15.2	0.382	0.268
6FX8008 1BA41	(4 G 6 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46165</b>	17.3	0.496	0.358
6FX8008 1BA51	(4 G 10 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46170</b>	20.1	0.713	0.515
6FX8008 1BA61	(4 G 16 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46175</b>	23.8	1.016	0.802
6FX8008 1BA25	(4 G 25 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46250</b>	27.6	1.438	1.144
6FX8008 1BA35	(4 G 35 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46255</b>	31.9	2.095	1.850
6FX8008 1BA50	(4 G 50 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ))	<b>46260</b>	35.0	2.609	2.540

KS alternative to OEM standard	type KS / construction	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
INK 0653	(4 G 1 <sup>2</sup> + 2 x (2 x 0.75 <sup>2</sup> ))	<b>46300</b>	11.3	0.194	0.136
INK 0650	(4 G 1.5 <sup>2</sup> + 2 x (2 x 0.75 <sup>2</sup> ))	<b>46305</b>	12.5	0.234	0.170
INK 0602	(4 G 2.5 <sup>2</sup> + 2 x (2 x 1 <sup>2</sup> ))	<b>46315</b>	14.3	0.327	0.229
INK 0603	(4 G 4 <sup>2</sup> + (2 x 1 <sup>2</sup> ) + (2 x 1.5 <sup>2</sup> ))	<b>46323</b>	16.1	0.435	0.328
INK 0604	(4 G 6 <sup>2</sup> + (2 x 1 <sup>2</sup> ) + (2 x 1.5 <sup>2</sup> ))	<b>46330</b>	17.9	0.552	0.445
INK 0605	(4 G 10 <sup>2</sup> + (2 x 1.5 <sup>2</sup> ) + (2 x 1 <sup>2</sup> ))	<b>46345</b>	20.7	0.757	0.626
INK 0606	(4 G 16 <sup>2</sup> + 2 x (2 x 1.5 <sup>2</sup> ))	<b>46350</b>	24.0	1.079	0.922
INK 0607	(4 G 25 <sup>2</sup> + 2 x (2 x 1.5 <sup>2</sup> ))	<b>46355</b>	27.4	1.487	1.323
INK 0667	(4 G 35 <sup>2</sup> + 2 x (2 x 1.5 <sup>2</sup> ))	<b>46360</b>	31.0	1.951	1.621
INK 0668	(4 G 50 <sup>2</sup> + 2 x (2 x 1.5 <sup>2</sup> ))	<b>46365</b>	36.0	2.740	2.600



# TRAXLINE POWER ONE HEAVY DUTY 10 kV / 11 kV / 12 kV

Shielded continuous bending hiflex PUR high performance cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



## Developed for

- Long cranes with cable carrier
- systems engineering and mechanical engineering
- Outdoor / Indoor
- Offshore / Onshore
- very heavy loads

## Properties

- hiflex design
- flame-retardant
- seawater-resistant
- crude oil resistant
- side pressure strength
- cut resistant
- tear propagation strength
- high abrasion resistant
- UV-resistant
- ozone-resistant
- metermarked
- REACH/RoHS II
- halogen-free
- silicone-free
- CFC-free
- NEK606

## Design

**Conductor:** conductor class 6 tinned high flex design as per EN 60288

**Inner conductor:** inner x outer semiconductive compounds

**Semi insulation:** EPR

**Core stranding:** EN 60228 class 6

**Inner jacket:** TPE

**Shielding:** tinned, coverage min. 85 %

**Outer jacket:** PUR; ultra abrasion proof

**Jacket colour:** red, RAL - 3000; optional: black, RAL - 9005

## Technical Data

**Temperature range while moved:** - 35 to + 80 °C

**Minimum bend radius while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**Fix assembling radius:**  $KR_{min} \geq 5 \times \varnothing$

**v<sub>max</sub> supported:** 50 m/s

**v<sub>max</sub> gliding:** 10 m/s / 6 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 20 M\Omega \times km$

**Rated voltage:** 10 kV / 11 kV / 12 kV

**Test voltage:** 21 kV / 23 kV / 25 kV

**Approvals:** CE, in style of VDE

varying parameters possible – please contact us



**Core insulation EPR**  
wire bundles in short pitches



**Overall shield**  
strong durable, twisted shielding for small bending and best grounding



**Outer jacket PUR**  
pressure extruded, superb flexible, extremely tough, ultra abrasion proof



**Jacket colour red**  
Top outdoor-quality

## Type selection

### TRAXLINE POWER ONE HEAVY DUTY 6/10 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49817	21.5	0.571	0.219
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49818	22.9	0.712	0.369
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49819	24.6	0.826	0.458
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49820	26.2	0.962	0.572
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49821	28.1	1.218	0.722
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49822	30.3	1.414	0.921
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49823	32.6	1.723	1.165
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49824	35.5	1.996	1.550
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49825	37.6	2.407	1.847
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49826	40.2	2.984	2.542
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49827	43.4	3.662	3.149
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49828	46.7	4.423	3.463
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49829	53.2	6.167	4.362

### TRAXLINE POWER ONE HEAVY DUTY 6.7/11 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49837	22.4	0.626	0.245
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49838	24.0	0.753	0.371
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49839	25.4	0.889	0.460
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49840	27.3	1.097	0.548
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49841	28.9	1.308	0.725
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49842	31.1	1.514	0.926
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49843	33.4	1.748	1.170
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49844	36.3	2.083	1.557
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49845	39.0	2.553	1.856
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49846	41.0	3.026	2.554
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49847	44.2	3.657	3.164
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49848	47.7	4.367	3.480
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49849	54.2	6.245	4.381

### TRAXLINE POWER ONE HEAVY DUTY 7.2/12 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49857	22.8	0.630	0.246
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49858	24.6	0.770	0.373
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49859	26.0	0.909	0.462
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49860	27.8	1.116	0.578
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49861	29.5	1.335	0.729
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49862	31.8	1.561	0.930
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49863	34.0	1.797	1.176
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49864	36.9	2.134	1.565
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49865	39.6	2.632	1.865
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49866	41.6	3.086	2.566
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49867	44.8	3.719	3.179
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49868	48.3	4.425	3.497
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49869	54.8	6.326	4.400

Additional cable types upon request. Delivery: from current production  
Sales terms and delivery conditions under [kabelschlepp.de](http://kabelschlepp.de)

# TRAXLINE POWER ONE HEAVY DUTY 15 kV / 24 kV / 30 kV

Shielded continuous bending hiflex PUR high performance cables

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

Picture obtainable.



## Developed for

- Long cranes with cable carrier
- systems engineering and mechanical engineering
- Outdoor / Indoor
- Offshore / Onshore
- very heavy loads

## Properties

- hiflex design
- flame-retardant
- seawater-resistant
- crude oil resistant
- side pressure strength
- cut resistant
- tear propagation strength
- high abrasion resistant
- UV-resistant
- ozone-resistant
- metermarked
- REACH/RoHS II
- halogen-free
- silicone-free
- CFC-free
- NEK606

## Design

**Conductor:** conductor class 6 tinned high flex design as per EN 60288

**Inner conductor:** inner x outer semiconductive compounds

**Semi insulation:** EPR

**Core stranding:** EN 60228 class 6

**Inner jacket:** TPE

**Shielding:** tinned, coverage min. 85 %

**Outer jacket:** PUR; ultra abrasion proof

**Jacket colour:** red, RAL ~ 3000; optional: black, RAL ~ 9005

## Technical Data

**Temperature range while moved:** - 35 to + 80 °C

**Minimum bend radius while moved:**  $KR_{min} \geq 7.5 \times \varnothing$

**Fix assembling radius:**  $KR_{min} \geq 5 \times \varnothing$

**v<sub>max</sub> supported:** 50 m/s

**v<sub>max</sub> gliding:** 10 m/s / 6 m/s

**a<sub>max</sub>:** 50 m/s<sup>2</sup>

**Insulation resistance:**  $\geq 20 M\Omega \times km$

**Rated voltage:** 15 kV / 24 kV / 30 kV

**Test voltage:** 30 kV / 50 kV / 63 kV

**Approvals:** CE, in style of VDE

varying parameters possible – please contact us



**Core insulation EPR**  
wire bundles in short pitches



**Overall shield**  
strong durable, twisted shielding for small bending and best grounding



**Outer jacket PUR**  
pressure extruded, superb flexible, extremely tough, ultra abrasion proof



**Jacket colour red**  
Top outdoor-quality

## Type selection

### TRAXLINE POWER ONE HEAVY DUTY 8.7/15 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49917	25.1	0.773	0.374
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49918	26.6	0.891	0.448
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49919	28.3	1.027	0.560
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49920	30.6	1.235	0.688
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49921	32.3	1.438	0.859
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49922	34.5	1.697	1.082
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49923	36.8	1.918	1.361
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49924	39.3	2.374	1.901
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49925	41.6	2.754	2.232
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49926	43.8	3.239	2.630
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49927	47.8	3.879	3.245
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49928	51.3	4.619	3.910
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49929	56.0	6.649	4.420

### TRAXLINE POWER ONE HEAVY DUTY 14.4/24 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49937	31.3	1.179	0.451
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49938	33.0	1.340	0.539
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49939	34.4	1.492	0.657
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49940	36.0	1.696	0.775
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49941	37.9	1.957	0.953
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49942	40.3	2.322	1.254
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49943	42.6	2.701	1.541
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49944	45.9	3.137	2.032
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49945	48.0	3.599	2.373
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49946	50.2	4.139	2.764
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49947	53.4	4.862	3.376
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49948	56.9	5.663	4.037
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49949	61.4	7.426	4.515

### TRAXLINE POWER ONE HEAVY DUTY 18/30 kV – shielded

core number x nominal-cross-section in mm <sup>2</sup>	part number	max. Ø mm	cable weight kg/m	copper weight kg/m
(1 x 10 <sup>2</sup> /10 <sup>2</sup> )	49957	34.3	1.440	0.488
(1 x 16 <sup>2</sup> /16 <sup>2</sup> )	49958	35.8	1.531	0.574
(1 x 25 <sup>2</sup> /16 <sup>2</sup> )	49959	37.2	1.688	0.681
(1 x 35 <sup>2</sup> /16 <sup>2</sup> )	49960	39.0	1.921	0.797
(1 x 50 <sup>2</sup> /16 <sup>2</sup> )	49961	40.9	2.248	1.047
(1 x 70 <sup>2</sup> /16 <sup>2</sup> )	49962	43.1	2.574	1.267
(1 x 95 <sup>2</sup> /16 <sup>2</sup> )	49963	45.4	2.818	1.548
(1 x 120 <sup>2</sup> /25 <sup>2</sup> )	49964	48.9	3.327	2.054
(1 x 150 <sup>2</sup> /25 <sup>2</sup> )	49965	50.8	3.695	2.389
(1 x 185 <sup>2</sup> /25 <sup>2</sup> )	49966	53.0	4.199	2.772
(1 x 240 <sup>2</sup> /25 <sup>2</sup> )	49967	56.4	5.074	3.568
(1 x 300 <sup>2</sup> /35 <sup>2</sup> )	49968	59.9	5.883	4.260
(1 x 400 <sup>2</sup> /35 <sup>2</sup> )	49969	64.4	7.878	4.578

# TRAXLINE pre-assembled OEM high flex cables

You need connection-ready harnessed **bus cables**?  
Or harnessed **signal- or power cables** for drives –  
in accordance to OEM specifications?

Simply order by quoting just the **OEM order number and cable length**, and wait for your original **TRAXLINE** quality goods to arrive.

## Connection-ready harnessed cables

- easy to order with just order number and cable length
- in accordance to OEM specifications
- Just-in-time delivery of three work days
- **no minimum order quantities**
- **individual cable lengths without surcharge**
- checked and monitored for reliable connection

Properties of the **TRAXLINE** cables:





## TRAXLINE USB 700 C pre-assembled

### Shielded continuous bending hi-flex USB PUR cable

**Properties of the TRAXLINE cables:**

- UV-resistant
  - CFC-free
  - Minimum bend radius 10 x Ø
  - halogen-free
  - flame-retardant
- Approvals: cURus, based on VDE, REACH/RoHS II



Picture obtainable.

cable type	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
USB S 700 C – type A/B	5.2	10 x Ø
USB L 700 C – type A/B	6.6	10 x Ø
USB 3.0 CD – type A/B	6.8	10 x Ø

Smaller bend radii are possible in many cases – contact us about options.

## TRAXLINE CAT.5E / CAT.6 700 CD pre-assembled

### Shielded continuous bending hi-flex CAT.5E / CAT.6 PUR cable

**Properties of the TRAXLINE cables:**

- UV-stable
  - CFC-free
  - Minimum bend radius 7.5 x Ø
  - halogen-free
  - flame-retardant
- Approvals: cURus, based on VDE, REACH/RoHS II



Picture obtainable.

cable type	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
CAT.5E 8-stranded straight	7.1	10 x Ø
CAT.5E 8-stranded cross-over	7.1	10 x Ø
CAT.6 8-stranded straight	8.0	10 x Ø
CAT.6 8-stranded cross-over	8.0	10 x Ø

Smaller bend radii are possible in many cases – contact us about options.

Additional cable types upon request.

Sales terms and delivery conditions under kabelschlepp.de

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE pre-assembled PUR signal cables

Cables with connections compatible with the OEM standards

Properties of the TRAXLINE cables:

- UV-resistant
  - CFC-free
  - Minimum bend radius 7.5 x Ø
  - halogen-free
  - flame-retardant
- Approvals: cURus, based on VDE, REACH/RoHS II



## Signal basic cables

**PUR** design



KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
6FX8002 2AD00	9.5	7.5 x Ø
6FX8002 2CA31	10.1	7.5 x Ø
6FX8002 2CA51	9.5	7.5 x Ø
6FX8002 2CA61	9.5	7.5 x Ø
6FX8002 2CF02	9.5	7.5 x Ø
6FX8002 2CH00	9.5	7.5 x Ø
6FX8002 2EQ00	10.1	7.5 x Ø
6FX8002 2EQ10	10.1	7.5 x Ø

Varying parameters possible – contact us about options.

## Signal extension cables

**PUR** design



KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
6FX8002 2AD04	9.5	7.5 x Ø
6FX8002 2CA34	10.1	7.5 x Ø
6FX8002 2CA54	9.5	7.5 x Ø
6FX8002 2CB54	9.3	7.5 x Ø
6FX8002 2CF04	9.5	7.5 x Ø
6FX8002 2EQ14	10.1	7.5 x Ø

Varying parameters possible – contact us about options.

## TRAXLINE pre-assembled **PUR** power cables

Cables with connections compatible with the OEM standards

Properties of the TRAXLINE cables:

- UV-resistant
  - CFC-free
  - Minimum bend radius  $7.5 \times \varnothing$
  - halogen-free
  - flame-retardant
- Approvals: cURus, based on VDE, REACH/RoHS II



### Power basic cables without brake wires

**PUR** design



KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved $KR_{min}$
6FX8002 5CA01	10.4	$7.5 \times \varnothing$
6FX8002 5CA11	11.7	$7.5 \times \varnothing$
6FX8002 5CA21	10.4	$7.5 \times \varnothing$
6FX8002 5CA31	11.7	$7.5 \times \varnothing$
6FX8002 5CA41	13.5	$7.5 \times \varnothing$
6FX8002 5CA51	16.3	$7.5 \times \varnothing$
6FX8002 5CA61	19.7	$7.5 \times \varnothing$

Varying parameters possible – contact us about options.

### Power extension cables without brake wires

**PUR** design



KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved $KR_{min}$
6FX8002 5CA05	10.4	$7.5 \times \varnothing$
6FX8002 5CA15	11.7	$7.5 \times \varnothing$
6FX8002 5CA28	10.4	$7.5 \times \varnothing$
6FX8002 5CA38	11.7	$7.5 \times \varnothing$
6FX8002 5CA48	13.5	$7.5 \times \varnothing$
6FX8002 5CA58	16.3	$7.5 \times \varnothing$
6FX8002 5CA68	19.7	$7.5 \times \varnothing$

Varying parameters possible – contact us about options.

Additional cable types upon request.

Sales terms and delivery conditions under [kabelschlepp.de](http://kabelschlepp.de)

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

# TRAXLINE pre-assembled PUR power cables

Cables with connections compatible with the OEM standards

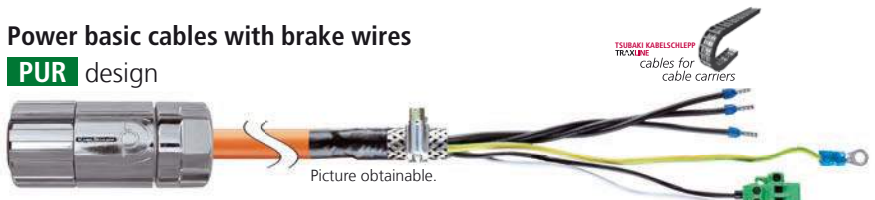
Properties of the TRAXLINE cables:

- UV-resistant
  - CFC-free
  - Minimum bend radius 7.5 x Ø
  - halogen-free
  - flame-retardant
- Approvals: cURus, based on VDE, REACH/RoHS II



## Power basic cables with brake wires

PUR design



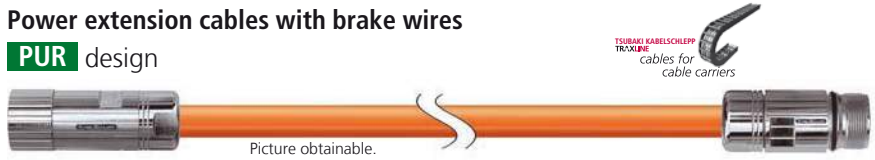
Picture obtainable.

KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
6FX8002 5DA01	12.6	7.5 x Ø
6FX8002 5DA11	14.0	7.5 x Ø
6FX8002 5DA21	12.6	7.5 x Ø
6FX8002 5DA31	14.0	7.5 x Ø

Varying parameters possible – contact us about options.

## Power extension cables with brake wires

PUR design



Picture obtainable.

KS alternative to OEM standard	approx. diameter mm	minimum bend radius moved KR <sub>min</sub>
6FX8002 5DA05	12.6	7.5 x Ø
6FX8002 5DA15	14.0	7.5 x Ø
6FX8002 5DA28	12.6	7.5 x Ø
6FX8002 5DA38	14.0	7.5 x Ø

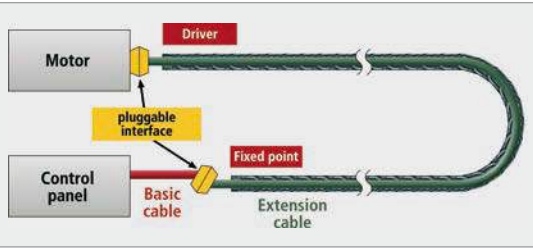
Varying parameters possible – contact us about options.

### Extension cables

In addition to connection-ready harnessed basic cables, **extension cables** are also available.

These are available as **signal and power cables** for drives – according to OEM specifications.

Simply order by quoting just the **order number and cable length**, and wait for your original TRAXLINE quality goods to arrive.




More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Application parameters TRAXLINE cables

Application parameters*	CONTROL 200/200 C	DATA / CONTROL 400/400 C	POWER 400/400 C	CONTROL / POWER 700/700 C	SYSTEM S 700 SYSTEM M 700
Acceleration a	up to 10 m/s <sup>2</sup>	up to 20 m/s <sup>2</sup>	up to 20 m/s <sup>2</sup>	up to 50 m/s <sup>2</sup>	up to 50 m/s <sup>2</sup>
Speed v, self-supporting	up to 3.5 m/s <sup>2</sup>	up to 5 m/s <sup>2</sup>	up to 5 m/s <sup>2</sup>	up to 20 m/s <sup>2</sup>	up to 5 m/s <sup>2</sup>
Speed v, gliding	up to 2 m/s <sup>2</sup>	up to 3.5 m/s <sup>2</sup>	up to 3.5 m/s <sup>2</sup>	up to 5 m/s <sup>2</sup>	up to 5 m/s <sup>2</sup>
Travel length recommended application areas	up to 25 m	up to 100 m	up to 100 m	up to 500 m	up to 50 m
DESINA	subject to cable type	subject to cable type	subject to cable type	subject to cable type	subject to cable type
Cold-resistant	•	•	•	•••	•••
Minimum bend radius, unshielded	KR <sub>min</sub> ≥ 10 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	subject to cable type
Minimum bend radius, shielded	KR <sub>min</sub> ≥ 10 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	KR <sub>min</sub> ≥ 7.5 x Ø	subject to cable type
Approval 	+	+	+	+	+
Operating temperature range	- 5 to + 80 °C	- 5 to + 80 °C	- 5 to + 80 °C	- 35 to + 90 °C	- 35 to + 90 °C
UV-resistance	+	+	+	• jacket coloured ••• jacket black	• jacket coloured ••• jacket black
CFC-free	+	+	+	+	+
flame-retardant	+	+	+	+	+
halogen-free	-	-	-	+	+
oil-resistant	+	+	+	+	+
silicone-free	+	+	+	+	+

+ Yes - No • suitable •• well suitable ••• very well suitable

\* Recommended values for the design of KABELSCHLEPP cable carrier systems.

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Electrical load capacity

Cross section	PVC	PUR	PUR Single cores
0.14 mm <sup>2</sup>	2 A	2 A	2 A
0.25 mm <sup>2</sup>	4 A	4 A	4 A
0.34 mm <sup>2</sup>	6 A	6 A	6 A
0.5 mm <sup>2</sup>	9 A	9 A	9 A
0.75 mm <sup>2</sup>	12 A	12 A	15 A
1 mm <sup>2</sup>	15 A	15 A	19 A
1.5 mm <sup>2</sup>	18 A	23 A	24 A
2.5 mm <sup>2</sup>	26 A	32 A	32 A
4 mm <sup>2</sup>	34 A	42 A	42 A
6 mm <sup>2</sup>	44 A	54 A	54 A
10 mm <sup>2</sup>	61 A	75 A	73 A
16 mm <sup>2</sup>	82 A	100 A	98 A
25 mm <sup>2</sup>	108 A	127 A	141 A
35 mm <sup>2</sup>	135 A	158 A	176 A
50 mm <sup>2</sup>	168 A	192 A	216 A
70 mm <sup>2</sup>	207 A	246 A	279 A
95 mm <sup>2</sup>	250 A	298 A	342 A
120 mm <sup>2</sup>	292 A	346 A	400 A
150 mm <sup>2</sup>	335 A	399 A	464 A
185 mm <sup>2</sup>	382 A	456 A	533 A
240 mm <sup>2</sup>	453 A	538 A	634 A
300 mm <sup>2</sup>	523 A	621 A	736 A
400 mm <sup>2</sup>			868 A
500 mm <sup>2</sup>			998 A
700 mm <sup>2</sup>			1240 A

These values are extracted from DIN VDE 0298-4. The laying procedure „Continuous flexible/moving in a cable carrier“ is not standardized. Due to this fact these values are for orientation only. Please observe reduction factors for cumulation of cables and varying ambient temperatures while selecting cables. Please observe additional standards which will be security-relevant for the application.

All data in this publication are to be used as guidelines for planning purposes only. In particular, we do not guarantee that the products supplied suit the users application. It is the customer's responsibility to verify that our products fit the users application specifications.

## Conversion factors for different ambient temperatures

Ambient temperatures in °C	Permitted/recommended operating temperature at conductor					
	40 °C	60 °C	70 °C	80 °C	85 °C	90 °C
	Conversion factors, must be applied to the loading capacity information!					
10	1.73	1.29	1.22	1.18	1.17	1.15
15	1.58	1.22	1.17	1.14	1.13	1.12
20	1.41	1.15	1.12	1.10	1.09	1.08
25	1.22	1.08	1.06	1.05	1.04	1.04
<b>30</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>
35	0.71	0.91	0.94	0.95	0.95	0.96
40	–	0.82	0.87	0.89	0.90	0.91
45	–	0.71	0.79	0.84	0.85	0.87
50	–	0.58	0.71	0.77	–	0.82
55	–	0.41	0.61	0.71	–	0.76
60	–	–	0.50	0.63	–	0.71
65	–	–	0.35	0.55	–	0.65
70	–	–	–	0.45	–	0.58
75	–	–	–	0.32	–	0.50
80	–	–	–	–	–	0.41
85	–	–	–	–	–	0.29
90	–	–	–	–	–	–
95	–	–	–	–	–	–

## Colour codes

### DIN 47100 colour code

1 white	11 grey-pink	21 white-blue	31 green-blue	41 grey-black
2 brown	12 red-blue	22 brown-blue	32 yellow-blue	42 pink-black
3 green	13 white-green	23 white-red	33 green-red	43 blue-black
4 yellow	14 brown-green	24 brown-red	34 yellow-red	44 red-black
5 grey	15 white-yellow	25 white-black	35 green-black	
6 pink	16 yellow-brown	26 brown-black	36 yellow-black	
7 blue	17 white-grey	27 grey-green	37 grey-blue	
8 red	18 grey-brown	28 yellow-grey	38 pink-blue	
9 black	19 white-pink	29 pink-green	39 grey-red	
10 purple	20 pink-brown	30 yellow-pink	40 pink-red	

The first colour describes the base colour of the core insulation, the second colour that of the printed ring.

## Copper wire dimensions: AWG vs. metric

AWG-No.	Cross section mm <sup>2</sup>	Diameter mm	AWG-No.	Cross section mm <sup>2</sup>	Diameter mm
500	254	20.7	16	1.31	1.29
400	203	18.9	17	1.04	1.15
350	178	17.3	18	0.823	1.024
300	152	16	19	0.653	0.912
250	127	14.6	20	0.519	0.812
4/0	107.2	11.68	21	0.412	0.723
3/0	85	10.4	22	0.325	0.644
2/0	67.5	9.27	23	0.259	0.573
0	53.4	8.25	24	0.205	0.511
1	42.4	7.35	25	0.163	0.455
2	33.6	6.54	26	0.128	0.405
3	26.7	5.83	27	0.102	0.361
4	21.2	5.19	28	0.0804	0.321
5	16.8	4.62	29	0.0646	0.286
6	13.3	4.11	30	0.0503	0.255
7	10.6	3.67	31	0.04	0.227
8	8.366	3.26	32	0.032	0.202
9	6.63	2.91	33	0.0252	0.18
10	5.26	2.59	34	0.04	0.16
11	4.15	2.3	35	0.0161	0.143
12	3.3	2.05	36	0.0123	0.127
13	2.62	1.83	37	0.01	0.113
14	2.08	1.63	38	0.00795	0.101
15	1.65	1.45	39	0.00632	0.0897

More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

Questions about cable carrier cables? Fon: +49 2762 4003-0

## Calculation of the copper surcharge

The copper contained in cables is already calculated into the sales price at € 150.00/100 kg (copper basis).

The current price of copper, the German DEL quotation, rises and falls on a daily basis. The difference between the copper basis and the daily quotation is calculated and added to the cable price (copper surcharge).

### The formula for calculating the copper surcharge (€/m):

$$\frac{\text{Copper weight (kg/m)} \times ((\text{DEL quote (€/100 kg)} + 1 \% \text{ procurement costs}) - \text{copper basis (€/100 kg)})}{100}$$

### DEL quotation

The DEL quotation (Deutsches Elektrolytkupfer für Leitzwecke / German Electrolytic Copper for Conductor Purposes) is a market quotation for copper used in cables with a purity of over 95.5 %.

### Copper basis

Is the proportional value of copper already included in the cable price. This is € 150.00/100 kg copper for all **TRAXLINE** cables.

### Copper weight

The copper weight is the weight of the copper in a cable. This can vary greatly depending on the cross-section and the number of cores used, and is specified in kilograms per meter (kg/m).

#### Example:

Copper weight: 0.152 kg/m

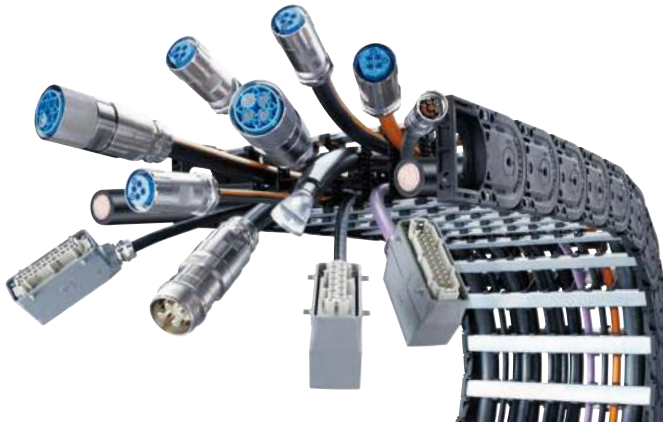
DEL notation: € 300.00/100 kg

Copper base: € 150.00/100 kg

Rebates and discounts do not apply to the copper surcharge.  
The copper surcharge is indicated separately in our invoices.

$$\frac{0.152 \text{ kg/m} \times ((€ 300.00/100 \text{ kg} + € 3.00/100 \text{ kg}) - € 150.00/100 \text{ kg})}{100}$$

= € 0.23/m copper surcharge per meter of cable







## Abbreviations

Abbreviation	Description	Note
C	total shield with Copper-braid	optical coverage
D	double-shielded	CD identification
G	including on Bi-color core	Yellow-Green/Ground/PE
Ø max.	maximum outer diameter	see type selection
EMV	electromagnetic compatibility	use shielded cables
FOC	fiber-optic cables – fiber/diameter	e.g. 6G62.5/125
PUR	special KABELSCHLEPP compound	e.g. 11 Y
TPE-E	Thermoplastic Polyester Elastomer	12 Y
PP/TPE	special KABELSCHLEPP compound	e.g. 9 Y
PVC	special KABELSCHLEPP PVC compound	Y
Approvals	USA/Canada approval	

## Definitions

Definition	Description	Example
Design	number of cores x nominal cross-section in mm <sup>2</sup>	3 G 1.5 <sup>2</sup>
Design AWG	American Wire Gauge	18AWG/2c
Shielding	without	4 G 1.5 <sup>2</sup>
	total	(4 G 1.5 <sup>2</sup> )
	total and pair	(4 x (2 x 0.5 <sup>2</sup> ))
	total and pair and single element	((2 x 0.75 <sup>2</sup> ) + 2 x (1 <sup>2</sup> ))
DESINA	decentral and standardized installation technology on machine tools	
Flame-retardant	according to UL or equal specification	
Halogen-free	according to VDE 0282-13 attachment C	700 Series
Oil-resistant	for special applications	see application parameters
UV-resistant	without any restriction	outer jacket: black / black + ICC
UV-stable	time restriction possible	outer jacket: coloured
Stranding	core stranding in bundle technology	5 x 5 x 2.5 <sup>2</sup> = 25 x 2.5 <sup>2</sup>
	core stranding mixed, in hybrid technology	((4 G 50 <sup>2</sup> ) + 2 x (2 x 1.5 <sup>2</sup> ))
	core stranding in layer design	7 x 1.5 <sup>2</sup>
	core stranding in pairs	(8 x 2 x 0.75 <sup>2</sup> )

# Chemical resistance

Chemical product	Resistance					
	CONTROL 200	CONTROL/POWER 400	CONTROL/POWER 700	DATA 700	CONTROL/POWER 700 C	SYSTEM 700 C
<b>Inorganic chemicals / aqueous solutions, neutral</b>						
Water	✓	✓	✓	✓	✓	✓
Common salt (10 %)	✓	✓	✓	✓	✓	✓
Sodium sulphate (10 %)	✓	✓	✓	✓	✓	✓
<b>Aqueous solutions, alkaline</b>						
Soda (10 %)	✓	✓	✓	✓	✓	✓
<b>Aqueous solutions, acidic</b>						
Aqueous solutions, oxidising	◆	◆	✓	✓	✓	✓
Hydrogen peroxide (3 %)	✓	✓	✓	✓	✓	✓
Potassium permanganate (2 %)	✓	✓	✓	✓	✓	✓
<b>Inorganic acids</b>						
Concentrated hydrochloric acid	-	-	-	-	-	-
Hydrochloric acid (10 %)	✓	✓	✓	✓	✓	✓
Concentrated sulphuric acid	-	-	✓	✓	✓	✓
Sulphuric acid (10 %)	✓	✓	✓	✓	✓	✓
Concentrated nitric acid	-	-	✓	✓	✓	✓
Nitric acid (10 %)	○	○	✓	✓	✓	✓
<b>Inorganic alkalis</b>						
Concentrated sodium hydroxide	-	-	✓	✓	✓	✓
Sodium hydroxide (10 %)	✓	✓	✓	✓	✓	✓
Concentrated caustic potash solution	-	-	✓	✓	✓	✓
Caustic potash solution (10 %)	✓	✓	✓	✓	✓	✓
Concentrated ammonia	○	○	✓	✓	✓	✓
Ammonia (10 %)	✓	✓	✓	✓	✓	✓
<b>Organic chemicals / organic acids</b>						
Concentrated acetic acid	-	-	✓	✓	✓	✓
Acetic acid (10 % in H <sub>2</sub> O)	✓	✓	✓	✓	✓	✓
Tartaric acid (10 % in H <sub>2</sub> O)	✓	✓	✓	✓	✓	✓
Citric acid (10 % in H <sub>2</sub> O)	-	-	-	-	-	-
<b>Ketones</b>						
Acetone	-	-	-	-	-	-
Methyl ethyl ketone (MEK)	-	-	-	-	-	-
<b>Alcohols</b>						
Ethyl alcohol (white spirits)	-	-	○	○	○	○
Isopropyl alcohol	-	-	✓	✓	✓	✓
Diethylene glycol	○	○	✓	✓	✓	✓
<b>Aromatics</b>						
Toluene	-	-	-	-	-	-
Xylene	-	-	-	-	-	-
<b>Fuels</b>						
Petrol	-	-	✓	✓	✓	✓
Diesel	○	○	✓	✓	✓	✓
Kerosene	-	-	✓	✓	✓	✓
<b>Synthetic oils / lubricating oil</b>						
ASTM oil #2	✓	✓	✓	✓	✓	✓
<b>Hydraulic fluid</b>						
Based on mineral oil	-	-	✓	✓	✓	✓
Based on glycol	-	-	✓	✓	✓	✓
Based on synthetic ester	-	-	◆	◆	◆	◆
<b>Vegetable oils</b>						
Rapeseed oil	○	○	✓	✓	✓	✓
Olive oil	○	○	✓	✓	✓	✓
Soybean oil	○	○	✓	✓	✓	✓
<b>Other</b>						
Seawater	✓	✓	✓	✓	✓	✓

✓ = resistant    - = not resistant    ○ = short-term resistance    ◆ = no data

## You don't know just how good a cable is until you see it in the carrier

Nothing proves the excellent performance of our products better than an uncompromising test



More information:  
[traxline.com](http://traxline.com)

[kabelschlepp.de](http://kabelschlepp.de)

The following test set-ups were used as the basis for the indicated motion cycles:

### TRAXLINE Series 200

Test KS VL – 1 200



Travel length:	<b>13.8 m</b>	Speed:	<b>2 m/s</b>
Acceleration:	<b>2.2 m/s<sup>2</sup></b>	Radius:	<b>10 x cable diameter</b>

**Result: over two million cycles**

### TRAXLINE Series 400

Test KS VL – 2 400



Travel length:	<b>17.4 m</b>	Speed:	<b>2.6 m/s</b>
Acceleration:	<b>2.2 m/s<sup>2</sup></b>	Radius:	<b>7.5 x cable diameter</b>

**Result: over four million cycles**

### TRAXLINE Series 700

Test KS VL – 3 700



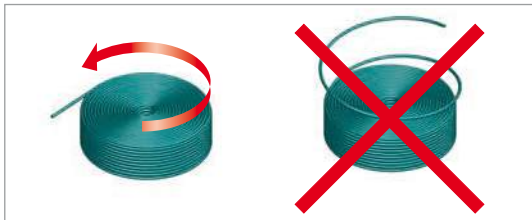
Travel length:	<b>28.3 m</b>	Speed:	<b>3 m/s</b>
Acceleration:	<b>2.2 m/s<sup>2</sup></b>	Radius:	<b>7.5 x cable diameter</b>

**Result: over seven million cycles**

## Installing cables into the cable carrier

### Do not cut ring-coiled cables

When cutting cables prior to installation into the cable carrier, ring-coiled cables must be unspooled tangentially and not be pulled in loops off the top.



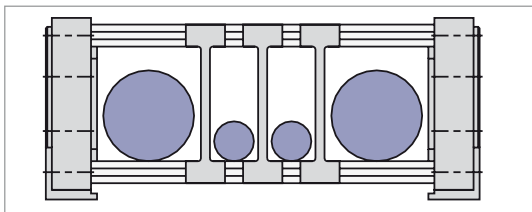
### Uncoil cables from reels torsion-free

When cutting cables prior to installation into the cable carrier, drum-coiled cables must be unreeled, twist- and torsion-free.

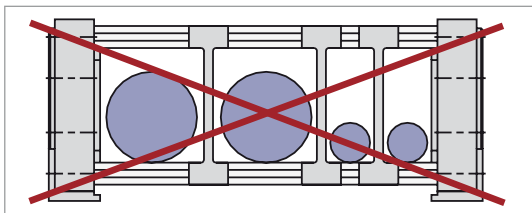


### Weight distribution inside the carrier cavity

When inserting the cables into the cable carrier, the cable weight is to be symmetrically distributed within the cavity width to assure maximum cycle life of the cable carrier and reduce the likelihood of cable carrier twist or tilt during operation.



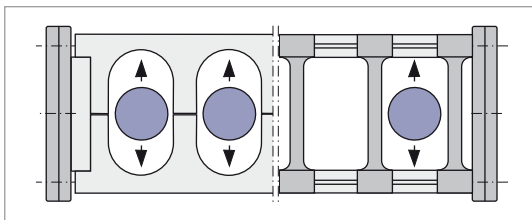
■ Right weight distribution



■ False weight distribution

### Cable length

A change in the length of the cables after installation can be balanced out in the carrier loop. Thus, the cables must move freely inside the cable carrier at sufficient length and torsion-free.

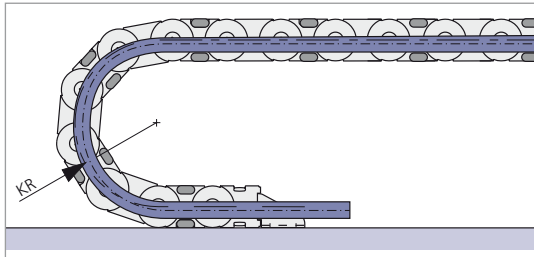


## Installing cables into the carrier

The cables must be inserted into the carrier system in a way to allow them to move independently through the carrier's bend radius.

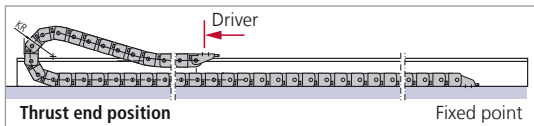
### How to do it:

- Always allow sufficient clearance between the dividers and within the cable carrier cavity area.
- Insert cables tension-free.
- Never tie-wrap or fasten cables onto the carrier links or cross bars!



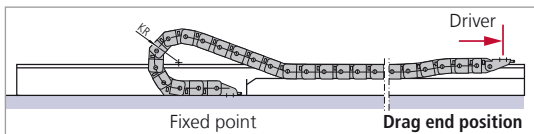
## Strain relief at the driven end of the carrier

After positioning the driven end (moving end) in the **retracted position** the cables are strain-relieved at the moving end.



## Correct cable length inside the carrier

After repositioning the driven end (moving end) in the carrier's **extended position** the cables are checked for tension-free length in the carrier loop and if necessary, pushed further into the carrier.



## Strain relief at the fixed end of the carrier

At this tension-free „installation length“, the cables are then strain-relieved at the carrier's fixed point.







## Application examples



- TOTALTRAX – the system solution for time-saving final assembly and short rework



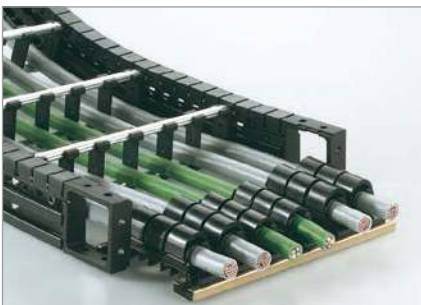
- Complete systems with a total weight of up to 10+ tons
- Customer inspection, if desired, at the factory
- Special packaging and transportation logistics for delivery to the construction site
- Up to 50 % time saving during final assembly



- MC-crane cable with cable package, SZL strain relief driven-end plate and sea-watertight AL-guide channel for worldwide use in port cranes



- High-speed test stand
- Durability tests exceeding 25 million cycles



- Optimized SZL-strain relief for long cable life – safe, compact, easy-to-assemble



- 125 m travel length: carrier fully harnessed with TRAXLINE Series 700

## Definitions

### Oil-resistant

The term „oil-resistant“ means the chemical resistance of cables that are used in an environment where they are continuously exposed to oil or lubricants. Tests are carried out using approx. 55 oils and lubricants.

### UV-resistant

The UV-resistance describes the resistance of the cable jacket to premature aging of the material due to sunlight. In addition, **TRAXLINE** cables are also weather-resistant.

### CFC-free

#### Chlorofluorocarbons

Due to the very detrimental effects of CFCs on the environment, and in particular on the ozone layer, we do not use them either in the manufacture of our products or in the products themselves.

### Flame-retardant

Flame-retardant describes the fire behavior of cables tested according to IEC 60331. Flame retardant is a characteristic of the materials used in the insulation according to which it only catches fire after a delay when it is subjected to an open flame, and extinguishes itself when the flame is removed.

### Silicone-free

The silicones used in cables are a very serious problem when applying paint, because if a surface contains silicone, paints and lacquers will not adhere to it properly. That is why all of our cables are generally silicone-free.

### RoHS-compliant

#### Restriction of the use of certain hazardous substances in electrical and electronic equipment.

In particular, the use of lead, mercury and cadmium should be strictly limited.

### Halogen-free

No materials such as chlorine, fluorine, iodine or bromide are used in our cables, because in the event of a fire corrosive gases would form hydrochloric acid, hydrofluoric acid, etc., thus greatly extending the scope of damage.

### Profibus

This field bus was developed in Germany in 1989, and today is the most widespread bus of its type worldwide. It is used equally extensively in both production automation and process automation. We make a distinction between two types:

#### Profibus DP (Decentralized Periphery)

Sensors and actuators are controlled by a central controller. Data rates of up to 12 Mbit/s are possible.

#### Profibus PA (Process Automation)

Is used in process engineering and process technology. The data transfer rate is only 31.25 kbit/s.

### Interbus

Is a field bus developed by the German company Phoenix Contact. The Interbus bus system is widely used in the automotive industry. The standard data transfer rate is 500 kBit/s.



## Definitions

### CAN-BUS

Is a bus system developed by Bosch. The CAN bus was developed for use in vehicles. Its data transfer capabilities are thus very large over short distances, but decrease greatly as the distance increases. The data transfer rate up to 40 m is 1 Mbit/s. Variants of the CAN bus:

**CAN open** – Primarily used in Europe.

**DeviceNet** – Primarily used in the USA. Developed by Allen-Bradley.

### USB

#### Universal Serial Bus

A serial bus developed by Intel that connects a PC with external devices. USB 2.0 achieves a data rate of 480 Mbit/s, which gives it an advantage over the industrial bus systems, but because it transfers data only in packets, it is less suitable for time-critical applications.

### FOC

#### Fiber-optic cables

Electric signals are converted by an optocoupler into light pulses, transferred via the fiber-optic cable and then converted back. The transfer rate is larger than for all comparable copper cables, and furthermore the cables are not subject to electromagnetic influences, and thus particularly suitable for industrial environments. The data transfer rate at 1300 nm/km is up to 10 Gbit/s. The fiber-optic cables can be made of plastic (POF) or glass.

### Cable carrier suitability

Cable carrier suitability designates the characteristic of a cable to be moved continuously in a cable carrier. This characteristic is present if the cable can withstand more than one million motion cycles. All of the cables offered in our catalog are cable carrier suitable.



### Servo cable

Servo cables designate cables that, in addition to the electric power required for the drive, can also transmit the signals generated by the servo controller. These measurements are made by means of an encoder such as a resolver, an incremental encoder or an absolute encoder.

### Center element

The center element serves to fill the cavity that is present with an extruded jacket. This center element must be able to hold the stranded assembly securely in position. It is one of the essential elements of our **TRAXLINE** cables.

### Rated voltage

The rated voltage designates the working range of the cable as defined by standards. The permissible voltage may differ depending on the approval.

### Insulation resistance

The insulating materials used oppose the flow of electric current with a very high resistance. This is inversely proportional to the cable length. The insulation resistance is a measure of the quality of the insulating material between two conductors or between a conductor and a shield.

### Temperature range

The temperature range designates the range in which the cables can be moved in a cable carrier. It is dependent on the insulating materials employed in the cable. Use outside of the specified temperature spectrum will result in significant damage to the cable.

## Definitions

### TALTRAX

#### Pre-assembled cable carrier systems.

Ready-to-connect cable carrier complete systems with system guarantee.

### Approvals



### Technical plastics

#### Insulating materials

The insulating materials used in our **TRAXLINE** cables can be subdivided into the following groups:

#### PVC – polyvinyl chloride

The material most often used in the cable industry. Plasticizers, stabilizers, masterbatches and other additives are added to form an individual mix, i.e. PVC. Operating temperature: from – 5 °C to + 80 °C

#### PUR – polyurethane

Besides a significantly higher notch toughness, polyurethane is also more resistant to chemicals. Its very good flexibility at low temperature makes this material excellent for outdoor applications. Operating temperature: from – 35 °C to + 90 °C

#### PP – polypropylene

Because of its very high dielectric strength, polypropylene is a very good insulating material. In combination with PUR insulation it is thus possible to produce cables that are excellent for use in cable carriers. Operating temperature: from – 35 °C to + 90 °C

### CAT cables

Unlike with normal data cables, with a Cat cable the transfer parameters are always specified, and therefore the damping and frequency of transfer are clearly defined.

#### CAT.5

Frequency of transfer: 100 MHz  
Damping: 22 dB  
NEXT (min. at 100 MHz): 32.3 dB

#### CAT.5E

Frequency of transfer: 100 MHz  
Damping: 22 dB  
NEXT (min. at 100 MHz): 35.3 dB

#### CAT.6

Frequency of transfer: 250 MHz  
Damping: 19.8 dB  
NEXT (min. at 100 MHz): 44.3 dB

### Ethernet

Ethernet is a defined standard for data transfer in networks (LANs). At present the transfer rates are up to 100 Mbit/s.

## Overview as per part numbers

part no.	page	part no.	page	part no.	page	part no.	page	part no.	page	part no.	page
45200	25	45543	29	45686	51	46125	61	47589	33	48664	19
45201	25	45544	29	45687	51	46130	61	47590	33	48666	19
45202	25	45546	29	45688	51	46135	61	47591	33	48668	19
45203	25	45549	29	45689	47	46150	63	47592	33	48670	19
45205	25	45551	29	45690	47	46155	63	47593	33	48674	19
45209	25	45552	29	45691	57	46160	63	47594	33	48678	19
45211	25	45553	29	45692	47	46165	63	47651	15	48679	19
45213	25	45555	29	45693	55	46170	63	47652	15	48680	19
45214	25	45559	29	45694	57	46175	63	47653	15	48682	19
45221	25	45560	29	45695	57	46200	63	47654	15	49817	65
45222	25	45561	29	45696	59	46205	63	47656	15	49818	65
45223	25	45562	29	45697	59	46210	63	47660	15	49819	65
45225	25	45563	29	45698	59	46215	63	47664	15	49820	65
45229	25	45564	29	45699	59	46220	63	47667	15	49821	65
45231	25	45565	29	45701	23	46225	63	47672	15	49822	65
45234	25	45566	29	45702	23	46230	63	47673	15	49823	65
45242	25	45567	29	45703	23	46235	63	47674	15	49824	65
45243	25	45568	29	45705	23	46240	63	47676	15	49825	65
45245	25	45569	29	45709	23	46250	63	47680	15	49826	65
45252	25	45570	29	45712	23	46255	63	47684	15	49826	65
45253	25	45571	29	45715	23	46260	63	47687	15	49827	65
45254	25	45572	29	45721	23	46300	63	47692	15	49828	65
45262	25	45573	29	45722	23	46305	63	47693	15	49829	65
45263	25	45574	29	45723	23	46315	63	47694	15	49837	65
45272	25	45575	31	45725	23	46323	63	47696	15	49838	65
45273	25	45576	31	45729	23	46330	63	47700	15	49839	65
45282	25	45577	31	45732	23	46345	63	47704	15	49840	65
45292	25	45578	31	45735	23	46350	63	47707	15	49841	65
45302	25	45579	31	45741	23	46355	63	47712	15	49842	65
45312	25	45580	31	45742	23	46360	63	47713	15	49843	65
45355	41	45581	31	45743	23	46365	63	47714	15	49844	65
45356	41	45582	31	45745	23	46400	61	47716	15	49845	65
45357	41	45583	31	45749	23	46410	61	47720	15	49846	65
45358	41	45584	31	45752	23	46412	61	47724	15	49848	65
45359	41	45585	31	45755	23	46415	61	47727	15	49849	65
45360	41	45586	31	45757	23	46505	61	48040	17	49857	65
45361	41	45587	31	45759	23	47202	27	48041	17	49857	65
45372	41	45588	31	45760	35	47222	27	48042	17	49858	65
45373	41	45589	31	45761	35	47223	27	48043	17	49859	65
45374	41	45590	31	45762	35	47225	27	48044	17	49860	65
45376	41	45591	31	45763	35	47242	27	48045	17	49861	65
45377	41	45592	31	45765	35	47243	27	48046	17	49862	65
45380	41	45593	31	45769	35	47245	27	48047	17	49863	65
45382	41	45594	31	45772	35	47252	27	48048	17	49864	65
45391	21	45595	31	45775	35	47253	27	48049	17	49865	65
45392	21	45596	31	45777	35	47262	27	48050	17	49866	65
45393	21	45597	31	45778	35	47263	27	48051	17	49867	65
45396	21	45598	31	45780	35	47272	27	48052	17	49868	65
45400	21	45622	43	45781	35	47273	27	48053	17	49869	65
45401	21	45623	43	45783	35	47282	27	48054	17	49917	67
45402	21	45624	43	45785	35	47292	27	48055	17	49918	67
45412	21	45625	43	45787	35	47351	13	48056	17	49919	67
45415	21	45626	43	45789	35	47352	13	48057	17	49920	67
45421	21	45627	43	45790	35	47353	13	48058	17	49921	67
45422	21	45628	43	45791	35	47354	13	48059	17	49922	67
45423	21	45629	43	45801	35	47356	13	48060	17	49927	67
45425	21	45630	43	45802	35	47360	13	48070	19	49923	67
45429	21	45631	43	45803	35	47364	13	48071	19	49924	67
45431	21	45632	43	45804	35	47367	13	48072	19	49925	67
45434	21	45634	43	45805	35	47372	13	48073	19	49926	67
45436	21	45635	43	45806	35	47373	13	48074	19	49927	67
45441	21	45636	43	45807	35	47374	13	48075	19	49928	67
45442	21	45637	43	45808	35	47376	13	48076	19	49929	67
45443	21	45638	43	45809	35	47380	13	48077	19	49937	67
45445	21	45639	43	45810	35	47384	13	48078	19	49938	67
45446	21	45640	43	45811	35	47387	13	48079	19	49939	67
45449	21	45641	43	45812	35	47392	13	48080	19	49940	67
45451	21	45642	43	45814	37	47393	13	48081	19	49941	67
45454	21	45643	43	45815	37	47394	13	48082	19	49942	67
45500	29	45646	43	45816	37	47396	13	48083	19	49943	67
45501	29	45647	43	45817	37	47400	13	48084	19	49944	67
45502	29	45649	43	45818	37	47404	13	48085	19	49945	67
45503	29	45650	43	45819	37	47407	13	48086	19	49946	67
45505	29	45651	43	45820	37	47412	13	48110	17	49947	67
45509	29	45652	43	45821	37	47413	13	48111	17	49948	67
45511	29	45654	43	45822	37	47414	13	48112	17	49949	67
45514	29	45661	45	45823	37	47416	13	48113	17	49957	67
45516	29	45662	45	45824	37	47420	13	48115	17	49958	67
45520	29	45664	45	45825	37	47424	13	48119	17	49959	67
45521	29	45665	45	45826	37	47427	13	48121	17	49960	67
45522	29	45667	45	45827	37	47433	13	48124	17	49961	67
45523	29	45669	45	45828	37	47580	33	48125	17	49962	67
45525	29	45670	49	45829	37	47581	33	48126	17	49963	67
45529	29	45672	49	46090	61	47582	33	48128	17	49964	67
45531	29	45676	53	46100	61	47583	33	48623	39	49965	67
45534	29	45679	45	46104	61	47584	33	48627	39	49966	67
45536	29	45680	57	46105	61	47585	33	48638	39	49967	67
45540	29	45683	57	46110	61	47586	33	48647	39	49968	67
45541	29	45684	55	46115	61	47587	33	48648	39	49969	67
45542	29	45685	57	46120	61	47588	33	48649	39	49970	67

# KABELSCHLEPP

## **CABLE CARRIER SYSTEMS**

Cable carriers made of steel and plastic  
QUANTUM cable and hose carrier system  
PROTUM cable and hose carrier system  
ROBOTRAX cable and hose carrier system

## **TRAXLINE CABLES FOR MOTION**

Continuous bending hi-flex cables for cable carriers  
TOTALTRAX complete turn-key carrier systems  
Pre-assembled cables

## **GUIDEWAY PROTECTION SYSTEMS**

Telescopic covers  
Link apron covers  
Way wipers  
Conical spring covers  
Bellows  
Protective devices

## **CONVEYOR SYSTEMS**

Hinged belt conveyors  
Scraper conveyors  
Belt conveyors

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