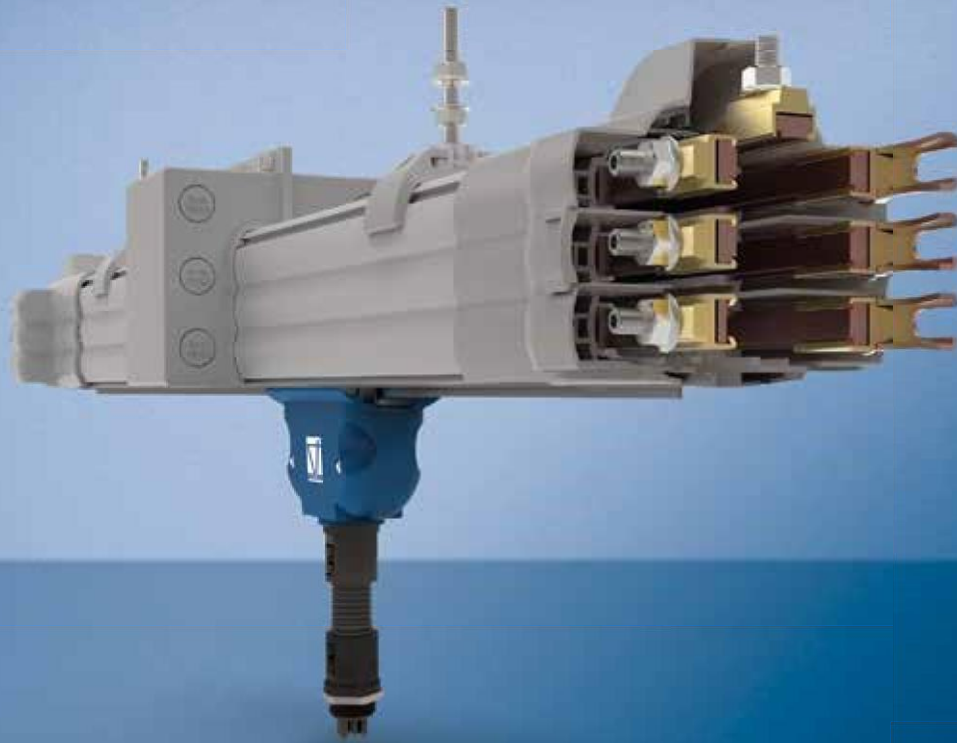




NCL

Compact Conductor Line System



NIKO CONDUCTOR LINE

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Applications of NCL conductor line systems

Optimal power supply and uninterrupted data communication are the pillars of modern production. NCL conductor lines guarantee both, effectively and safely.

Efficient work processes are often only made possible by flexibly connected current collectors/data adapters along the lines.

Using solid components and sophisticated system technology, we ensure the right power is available at all times – precisely where it is needed. Data connections for computerised processes are permanently stable and remain uninterrupted.

NCL conductor line systems also increase safety for people and the environment. Particularly when manually transporting power- and data lines within the work area is obstructive or even hazardous.

All conductor lines are planned by us as complete systems. We carry out the projects on site, including suspension, control cabinets and all other necessary components – even in under- ground conductor line channels if necessary.

The design and quality of NCL conductor line systems guarantee easy assembly and low-maintenance operation.

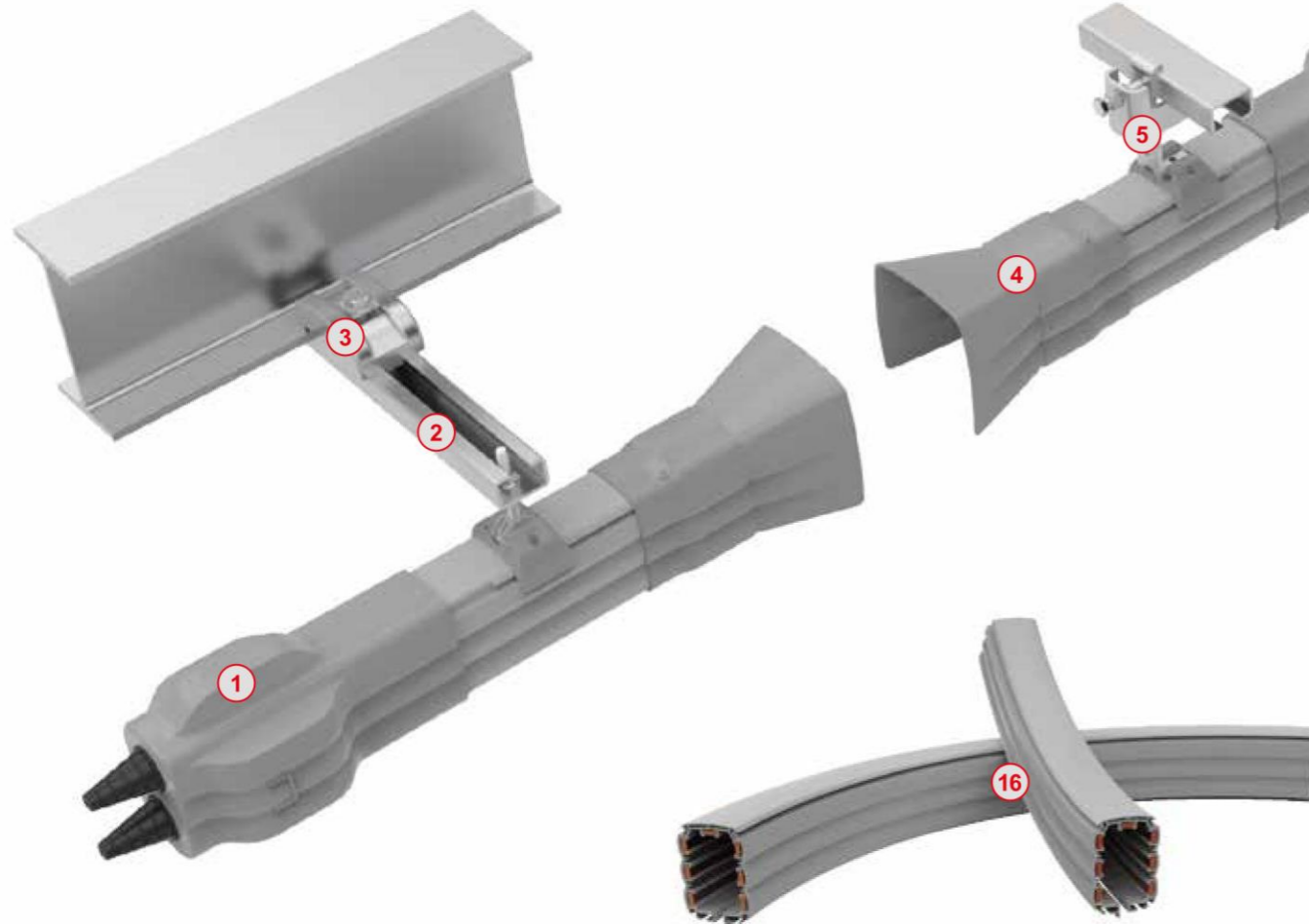
The NCL System

Our compact conductor lines of the NCL series are made of impact resistant plastic and feature an innovative connection technology. The installation-friendly, preassembled system is characterized by a high stiffness at low weight and compact dimensions. It can expand and offers inspection possibilities at all joints. Additional expansions are only necessary in specific installation projects.

All straight sections can be easily replaced if necessary. The sliding contacts can be connected and fixed using a solid bolt embedded in the system - it does not require loose mounting components. Feedings are carried out variable within or at the end of the conductor line.

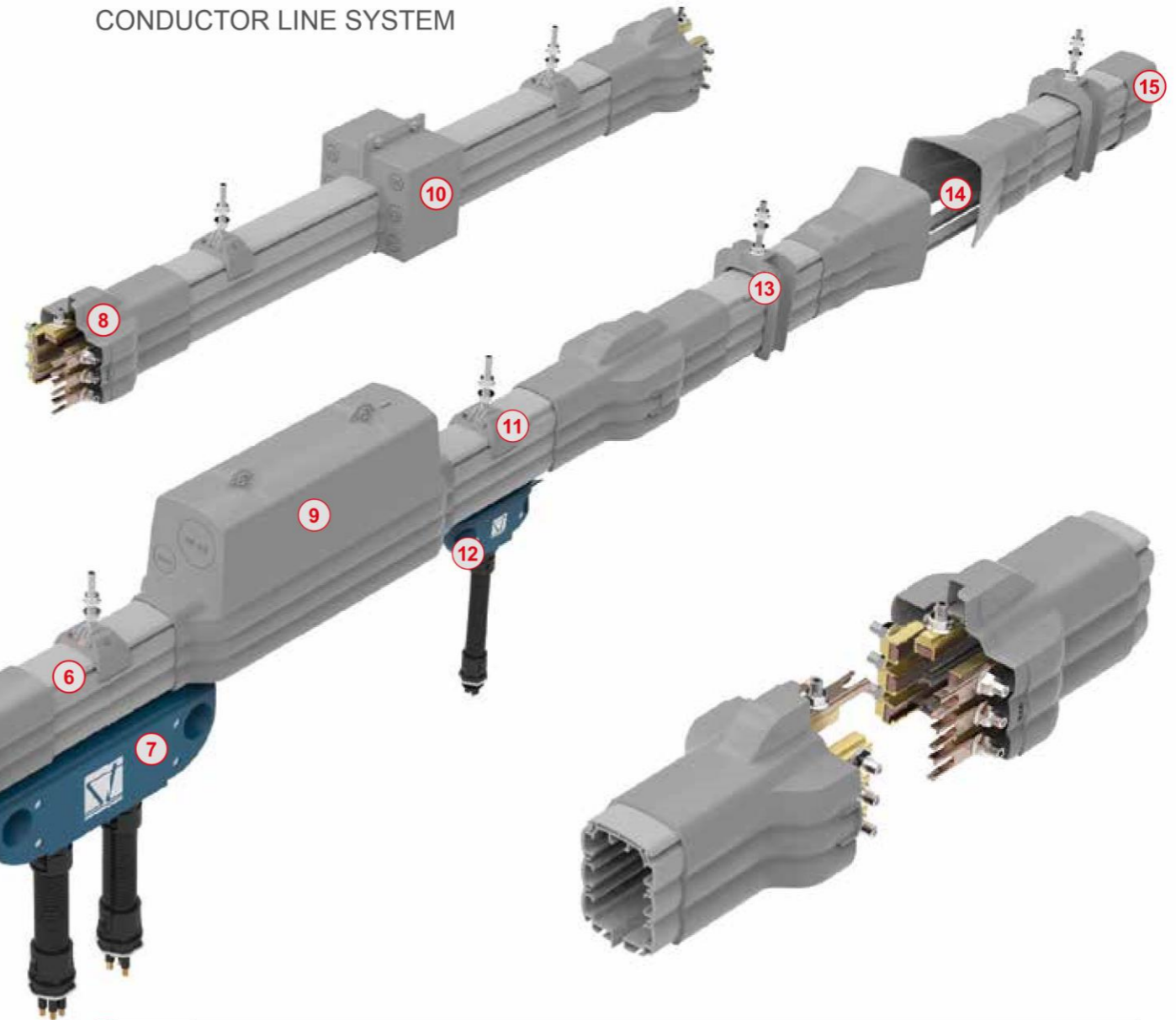
The main power line is integrated, safe from damages, within the current collector trolleys.

SYSTEM COMPONENTS	
①	End supply
②	C-rail traverse
③	I-beam clamp
④	Entry / transfer funnel
⑤	C-rail traverse suspension
⑥	Straight sections up to 4000 mm length
⑦	Current collecting trolley 100 A
⑧	Conductor bar connecting element
⑨	Centre supply
⑩	Centre supply for curve sections and narrow installation space
⑪	Sliding and fixed point suspension, standard
⑫	Current collecting trolley 20 A / 40 A
⑬	Sliding and fixed point suspension for areas with wide temperature fluctuations
⑭	Expansion
⑮	End / terminating cap
⑯	Curve profile, vertical/horizontal



NCL

CONDUCTOR LINE SYSTEM



TECHNICAL DATA FOR CONDUCTOR BAR

Housing material	PVC					
Standard length	4000 mm					
Number of conductors	max. 7					
Suspension distance	1000 mm / 2000 mm					
Voltage U_N	24 to 690 V AC					
Current capacity (100% ED at 35°C)	64 A	78 A	100 A	140 A	180 A	240 A
Conductor bar cross-section	10 mm ²	15 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²
Ambient / housing temperature	- 30 °C up to + 70 °C, special version up to + 80 °C					
Travel speed	depending on the application, up to 300 m/min					
Protection class (DIN VDE 0470 T.1/EN 60529)	IP23 / IP24 (with sealing lip)					
Smallest curve radius	≥ 800 mm horizontal / ≥ 1500 mm vertical					
Fire protection equipment	UL94 / V0 (not halogen free)					

NCL Conductor Line



applications

The enclosed conductor system is designed for currents up to 240 A. Depending on the application it is equipped with up to 7 conductors.

Accidental contact with live components is almost impossible thanks to the narrow openings in the casing profile. The NCL conductor lines are used without further safety measures in areas that are within easy reach.

Additional sealing lips provide effective protection against dirt and moisture.

We offer the NCL series in prefabricated 4-meter lengths. In addition to the conductor bar with collecting trolleys, mounting systems for wall or ceiling installation, power supply feeds, etc. a comprehensive range of accessories is available.

APPLICATIONS

- Overhead and bridge cranes
- High bay storage, conveyor technology
- Monorail tracks
- Transport systems
- Data transmission systems
- Production lines, workshop equipment
- Stand-alone applications



Reliability under hard operating conditions

Components and technical data

We offer NCL series in prefabricated 4-meter lengths. In addition to the conductor bar with collecting trolleys, mounting systems for wall or ceiling installation, power supply feeds, etc. a comprehensive range of accessories is available.

APPLICATIONS

- Overhead and bridge cranes
- High bay storage, conveyor technology
- Monorail tracks
- Transport systems
- Data transmission systems
- Production lines, workshop equipment
- Stand-alone applications

SYSTEM COMPONENTS

- Straight sections up to 4000 mm length
- Curved sections from ≥ 800 mm curve radius
- Sliding and fixed point suspensions
- C-rail traverses
- Centre/end feedings
- End/terminating caps
- Current collecting trolleys 20 A / 40 A / 100 A
- Entry/transfer funnels
- Fork attachment /towing arm for free transfer sections



NCL current collecting trolley, 7-pole / 40a

TECHNICAL DATA FOR CONDUCTOR BAR

Housing material	PVC						
Standard length	4000 mm						
Number of conductors	max. 7						
Suspension distance	1000 mm / 2000 mm						
Voltage U_N	24 to 690 V AC						
Current capacity (100% ED at 35°C), max.	40 A	64 A	78 A	100 A	140 A	180 A	240 A
Conductor bar cross-section	5 mm ²	10 mm ²	15 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²
Ambient / housing temperature	- 30 °C to + 70 °C						
Travel speed	depending on the application, up to 300 m/min						
Protection class (DIN VDE 0470 T.1/EN 60529)	IP23 / IP24 (with sealing lip)						
Smallest curve radius	≥ 800 mm horizontal / ≥ 1500 mm vertical						
Fire protection equipment	UL94 / V0 (not halogen free)						