

Connectivity Solutions

Cable Assemblies according to Bosch Rexroth Standard



Efficiency in Automation Cable • Connectivity • Cabinet • Control

Welcome to LÜTZE

Cable Solutions



Connectivity Solutions



Cabinet Solutions



Control Solutions



Transportation Solutions



LÜTZE has been developing and manufacturing electronic and electrical engineering solutions for controls and installations for more than 50 years. Our basic concept as a system supplier for factory automation is to provide a comprehensive and wellmatched product range.

LÜTZE Servo cable assemblies according to BOSCH REXROTH[®].

LÜTZE has a long standing reputation as a manufacturer of factory automation cables. These high performance cables are now available preassembled to connect your BOSCH REXROTH® servo drive systems.

LÜTZE servo cable assemblies are fully suitable with BOSCH REXROTH[®] drive systems. As a special service LÜTZE offers each cable assembly in custom lengths of 0.5 m increments.

The product offering includes all power and feedback sizes. In addition, raw cable is available for field assembly. There is no minimum order amount, delivery times are short and there is a cost-effective price/performance ratio.

LÜTZE systems comply with the highest industrial standards, LÜTZE solutions mean improvement and innovation. Our solutions include components and concepts suitable for almost any automation application.





Motor and servo feed by means of maximum



Your efficient connection to the drive

Are you looking for the right connection between the control cabinet and the drive? LÜTZE can offer you a complete solution from one source. 100% compatible to standard servo systems: Quality is LÜTZE's top priority.

LÜTZE cables are specially designed for rough industrial environments which exceed some standard requirements. Or are you looking for a very individual solution? We adapt cable assemblies to meet your requirements. Just ask us! We have a wide range of cables, connectors, protective hoses and openings to choose from - all readily available!

The LÜTZE cable specialists are familiar with all applications and technologies in the broad field of automation solutions. Ultimately,

LÜTZE and its product ranges Cable, Connectivity, Cabinet and Control are a part of the industrial automation field!

back: Best possible efficiency power transmission

Full power in all drive situations - the low-capacity cables from LÜTZE have the lowest losses which means that the maximum output can be transferred as a ratio to the cross-section. The special LÜTZE cable design therefore offers a maximum of efficiency and also helps to save energy.



Assemblies for the following standards

Allen-Bradley Bosch Rexroth Lenze SEW Siemens 6FX



Always connected pro Cable assemblies by



Moulded closed

LÜTZE Tamper-proof connector plastic moulded round plug connectors M23 for industrial use offer the user an economical and, at the same time, safe solution for the electrical connection of machines and systems.

The LÜTZE program contains various termination numbers and cable lengths. This means terminations of 6 - 28 and transfer outputs of up to 30 A at 630 V, and therefore robust, safe cabling is available for numerous signal and power applications.

The integrated protection against kinking and the inner metal housing with 360° EMC shielding ensure the cable assemblies meet the requirements for the industrial sector - **they really are sealed sealed shut**

Other benefits:

- Tamper-proof: To prevent the connector casing from being opened or wrong connections within the connector
- Integrated anti-kink device100 % compatible with
- BOSCH REXROTH®, SIEMENS®, Allen-Bradley®...
- Production of single unit available
- Available at short notice
- Protection class IP66/67

perly LÜTZE

Helical cables - Manufactured to meet your specifications, our helical cables are suitable for high mechanical loads such as high-performance machines, lifting

platforms and lots of other moving applications. Also highly suited for use outside for millions of load changes without failure!



Customer-specific solutions



Each installation is different. Therefore, make use of our cable assembly expertise; experts will plan your project and document your application making use of a product range containing more than 1700 cables, connectors, strain relief elements and protective hoses.



According to Bosch Rexroth RKL standard











		Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
	-F HA	Base cable				
LOTZE BALL	AMERICAN AND A	193262.1000	RKL0014	10.0	(4G1.0+2×(2×0.75))	12.5
		193089.1000	RKL0015	10.0	(4G1,5+2×(2×0,75))	12.9
		193090.1000	RKL0016	10.0	(4G1,5+2×(2×0,75))	12.9
		193091.1000	RKL0017	10.0	(4G1,5+2×(2×0,75))	12.9
Application		193092.1000	RKL0018	10.0	(4G2,5+2×(2×1,0))	14.2
Motor cable for Bosch Rex	roth SERVO drives onductor insulation optimally suited for	193093.1000	RKL0019	10.0	(4G1,0+2×(2×0,75))	12.5
	operating conditions, aggressive coo-	193095.1000	RKL0046	10.0	(4G2,5+2×(2×1,0))	14.2
lants and lubricants		193097.1000	RKL4349	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
Properties		193098.1000	RKL0050	10.0	(4G1,5+2×(2×0,75))	12.9
 Silicone free 		193100.1000	RKL0052	10.0	(4G2,5+2×(2×1,0))	14.2
 RoHS-compliant 		193101.1000	RKL0053	10.0	(4G1,0+2×(2×0,75))	12.5
Technical data		193105.1000	RKL0057	10.0	(4G2,5+2×(2×1,0))	14.2
UL approval	cURus	193106.1000	RKL0058	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
Nominal voltage	1000 V 80 °C	193125.1000	RKL4300	10.0	(4G1,5+2×(2×0,75))	12.9
Voltage		193107.1000	RKL4301	10.0	(4G1,5+2×(2×0,75))	12.9
U ₀ /U	0.6/1 kV	193240.1000	RKL4302	10.0	(4G1.0+2×(2×0.75))	12.5
Insulation resistance	min. 500 MΩ × km	193258.1000	RKL4303	10.0	(4G1.0+2×(2×0.75))	12.5
Temperature range		193241.1000	RKL4306	10.0	(4G1.5+2×(2×0.75))	12.9
moving	-25 °C to +80 °C	193273.1000	RKL4307	10.0	(4G1,5+2×(2×0,75))	12.9
fixed	-40 °C to +80 °C	193242.1000	RKL4308	10.0	(4G2,5+2×(2×1,0))	14.2
Minimum bending radius		193243.1000	RKL4309	10.0	(4G2,5+2×(2×1,0))	14.2
moving	D × 10	193244.1000	RKL4310	10.0	(4G2,5+2×(2×1,0))	14.2
fixed	D×6	193108.1000	RKL4313	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
Burning behavior	Flame-retardant according to	193257.1000	RKL4314	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
5	VDE 0482 T 265-2,	193109.1000	RKL4315	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
	DIN EN 50265/2, IEC 60332-1,	193246.1000	RKL4317	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
	UL 1581 section 1080 VW-1 CSA FT 1	193247.1000	RKL4318	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
Halogen free	according to DIN EN 50267-2-1	193276.1000	RKL4345	10.0	(4G2,5+2×(2×1,0))	14.2
Product photo	The product photos are not to scale	193119.1000	RKL4346	10.0	(4G2,5+2×(2×1,0))	14.2
	and do not represent detailed	Extension				
	images of the respective products.	193278.1000	RKL4304	10.0	(4G1,5+2×(2×0,75))	12.9
		193616.1000	RKL4305	10.0	(4G1,0+2×(2×0,75))	12.5
Construction		193263.1000	RKL4311	10.0	(4G1.5+2×(2×0.75))	12.9
 Jacket color orange RAL 2 	003	193245.1000	RKL4312	10.0	(4G2,5+2×(2×1,0))	14.2
		193110.1000	RKL4316	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
		193279.1000	RKL4319	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
		193120.1000	RKL4347	10.0	(4G2,5+2×(2×1,0))	14.2

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According to Bosch Rexroth RKL standard

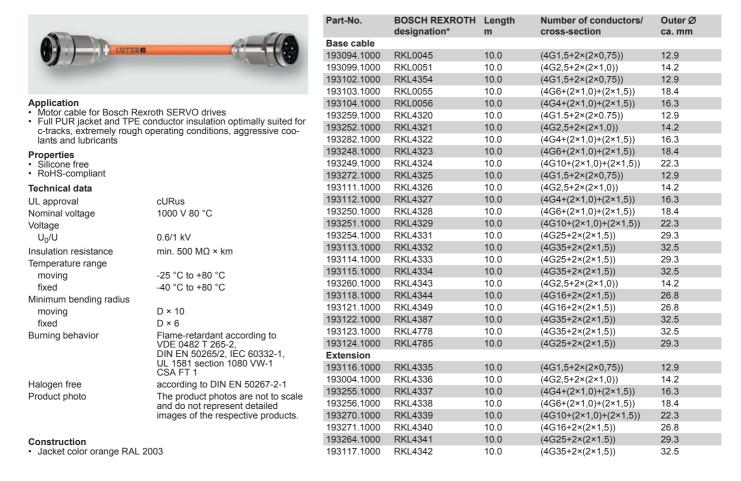












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According to Bosch Rexroth IKG standard









 Application Motor cable for Bosch Rexroth SERVO drives Full PUR jacket and TPE conductor insulation optimally suited for 		Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
	operating conditions, aggressive coo-	Base cable				
lants and lubricants		193028.1000	IKG4115	10.0	(4G1,5+2×(2×0,75))	12.9
Properties		193029.1000	IKG4116	10.0	(4G2,5+2×(2×1,0))	14.2
Silicone free		193054.1000	IKG4117	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
 RoHS-compliant 		193055.1000	IKG4118	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
Technical data		193037.1000	IKG4175	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
Nominal voltage	1000 V 80 °C	193030.1000	IKG4136	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
Voltage	193062.1000	IKG4176	10.0	(4G10+(2×1,0)+(2×1,5))	22.3	
U ₀ /U	0.6/1 kV	193031.1000	IKG4140	10.0	(4G1,5+2×(2×0,75))	12.9
Insulation resistance	min. 500 MΩ × km	193060.1000	IKG4139	10.0	(4G2,5+2×(2×1,0))	14.2
Minimum bending radius		193038.1000	IKG4177	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
moving	D × 10	193039.1000	IKG4215	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
fixed	D × 6	193077.1000	IKG4169	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
Burning behavior		193032.1000	IKG4155	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
3	VDE 0482 T 265-2,	193078.1000	IKG4168	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
	DIN EN 50265/2, IEC 60332-1, UL 1581 section 1080 VW-1	193061.1000	IKG4172	10.0	(4G16+2×(2×1,5))	26.8
	CSA FT 1	193035.1000	IKG4173	10.0	(4G25+2×(2×1,5))	29.3
Halogen free	nach DIN EN 50267-2-1	193036.1000	IKG4174	10.0	(4G35+2×(2×1,5))	32.5
Product photo	The product photos are not to scale	193033.1000	IKG4620	10.0	(4G25+2×(2×1,5))	29.3
	and do not represent detailed	193079.1000	IKG4621	10.0	(4G35+2×(2×1,5))	32.5
	images of the respective products.					

Construction

Jacket color orange RAL 2003

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According to Bosch Rexroth IKS standard











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Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
Base cable				
193126.1000	RKG0030	10.0	(2×1,0+4×2×0,25)	8.9
193034.1000	RKG4200	10.0	(2×0,5+4×2×0,25)	8.7
193088.1000	RKG4202	10.0	(2×0,5+4×2×0,25)	8.7
193164.1000	IKS4038	10.0	(2×(0,5)+3×(2×0,14))	8.7
Extension				
193001.1000	RKG4201	10.0	(2×0,5+4×2×0,25)	8.7

Application
Signal cables
Due to full PUR jacket and TPE conductor insulation optimally suited for c-track, extremely rough operating conditions, aggressive coolants and lubricants

- PropertiesSilicone freeRoHS-compliant

Technical data

lechnical data	
UL approval	cURus
Nominal voltage	300 V 80 °C
Voltage	
U ₀ /U	0.6/1 kV
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 T 265-2,
	DIN EN 50265/2, IÉC 60332-1,
	UL 1581 section 1080 VW-1 CSA FT 1
Halogen free	according to DIN EN 50267-2-1
Product photo	The product photos are not to scale and do not represent detailed images of the respective products.
	5 from from 1

Construction

Jacket color orange RAL 2003

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LÜTZE SUPERFLEX[®] PLUS M (C) PUR SERVO 0.6/1 kV Supply line for Bosch Rexroth and other systems For highest requirements











Application

- For Indramat* system (and similar) Connection cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology Due to Full PUR jacket and TPE / HGI conductor insulation opti-
- mally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants Especially for industrial environments in mechanical and system
- engineering
- Properties

- High active and passive interference resistance (EMC) Braided shield optimised for continuous flexible use Very good alternating bending strength Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-.
- tions)
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free

RoHS compliant •

echnical	data	

UL approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U ₀ /U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to IEC 60332-1-2, EN 50265-1-2, UL 1581, CSA C22.2 No. 210.2 Flame Rating FT1
Halogen free	according IEC 60754-1, EN 50267- 2-1

Construction

- **Onstruction** Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6 Conductor insulation Special TPE, high glide Power conductors black with number print (1, 2, 3) Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground con-ductor ductor
- Control pairs digits printing (5, 6) (7, 8) Control pair with braided shield and foil tape
- Conductors cabled in layers without mechanical stress, layer pitch optimised Fleece wrap over cable core

12

- Braid from tinned copper wire, optical coverage ≥ 85 % Jacket special-PUR, matte, adhesion-free surface Jacket color orange RAL 2003

CE These products are in conformity with the EU Low Voltage Direc-

tive 2006/95/EC *Indramat article designations are registered trademarks

	ZE	1
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Part-No.	Number of conductors/cross-secti-	INK* De-	Outor (Mainht	Cu Index
Part-No.	on	scription		Weight	Cu-Index kg/100 m
Construct	tion with two control pairs	Scription	ca. mm	kg/100 m	kg/100 III
	•				
111719	(4G0,75+2×(2×0,34))		11.2	17.7	9.5
111270	(4G1.0+2×(2×0.75))	INK 0653	12.5	23.2	13.8
111271	(4G1.5+2×(2×0.75))	INK 0650	12.9	25.5	16.2
111279	(4G2.5+2×(2×1.0))	INK 0602	14.2	33.0	22.6
111388	(4G4+(2×1.0)+(2×1.5))	INK 0603	16.3	38.0	32.9
111998	(4G6+(2×1.0)+(2×1.5))	INK 0604	18.4	53.0	38.5
111762	(4G10+(2×1.0)+(2×1.5))	INK 0605	22.3	76.5	57.0
111276	(4G16+2×(2×1.5))	INK 0606	26.8	106.4	89.1
111277	(4G25+2×(2×1.5))	INK 0607	29.3	171.4	126.0
111278	(4G35+2×(2×1.5))	INK 0667	32.5	217.6	164.0

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX[®] PLUS (C) PUR FEEDBACK Feedback cables for Bosch-Rexroth and other systems For highest requirements in drive technology





Application

- Incremental encoder cable, connection cable for tacho sensor,
- brake sensor, speed sensor Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- especially for industrial environments in mechanical and system engineering

Properties

- High active and passive interference resistance (EMC)
 Braided shield optimised for continuous flexible use
- .
- Very good alternating bending strength Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-• tions)

- Good ruggedness and salt water resistance Excellent coolant and lubricant resistance Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free

RoHS compliant

Technical data

recifical uata	
UL approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction

- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6 Conductor insulation Special-TPE

- Conductors color-coded for specific system Conductors cabled in layers without mechanical stress, layer pitch
- optimised Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
 Jacket special-PUR, matte, adhesion-free surface
 Jacket color orange RAL 2003

Part-No.	Number of strands/cross-section/ strand colors	INK* De- scription		Weight kg/100 m	Cu-Index kg/100 m
For Bosch	n-Rexroth system (and similar)				
110941	(2×1.0+4×2×0.25) 1.0: white, brown 0.25: brown/green, grey/pink, blue/vio- let, red/black	INK- 0209*	8.9	12.0	6.4
111780	(2×0.5+4×2×0.25) 0.5: white, brown 0.25: brown/green, grey/pink, blue/vio- let, red/black	INK- 0448*	8.7	10.0	5.9
110940	(9×0.5) Strand color according to DIN 47100	INK- 0208*	8.8	12.5	7.5
111495	(4×1.0+4×2×0.14+(4x0.14)) 1.0: blue, whitegreen, browngreen, whi- te 0.14: grey/pink, yellow/violet, green/ brown, red/black (0.14): greenblack, blueblack, yel- lowblack, redblack	INK- 0532*	9.5	13.7	9.6
111781	(2×2×0.25+2×0.5) 0.5: white, brown 0.25: red/black, gray, pink	INK- 0750*	7.6	9.0	4.2

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC

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Handling and Installation LÜTZE SUPERFLEX® – Quick Overview

1. Selecting Cables for Continuous Motion Applications – C-Tracks

We recommend special high flexing cables such as LÜTZE SUPERFLEX® cables, for use in C-tracks to ensure long life times:

- LÜTZE SUPERFLEX® cable is proven to be compatible with all major brands of C-tracks.
- LÜTZE SUPERFLEX® N is designed for moderate flexing in short to medium length C-tracks.
- LÜTZE SUPERFLEX® Plus PUR is designed for high performance flexing or longer C-tracks.

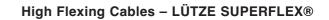
High Flexing Cables such as LÜTZE SUPERFLEX® cables are different from standard flexible cables:

Standard Flexible Cables – LÜTZE SILFLEX®



long pitch

- · Low number of strands per conductor
- longer pitch layering
- designed as a pliable cable for easy routing and installation





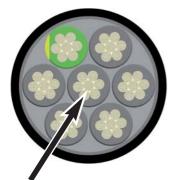
short pitch, layered design with control core

- · high number of super fine strands per conductor
- short pitch layering
- · conductors are cabled without mechanical back twist
- · higher quality of materials
- slower and more complex manufacturing process on high-end equipment
- designed for linear constant flexing



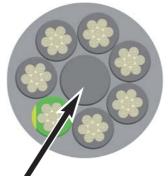
Periodical Free Flexing

Bend & Route



- no central core
- mostly PVC as insulation material
- · foil shield or braid shield
- · jacket material depends on application



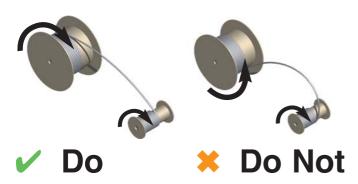


- · central core for single layer construction
- special PVC or TPE as insulation material
- tinned copper braid shield
- · high abrasion resistant jacket material such as PUR

Handling and Installation LÜTZE SUPERFLEX® – Quick Overview

2. Correct Handling of LÜTZE SUPERFLEX® Cables

When unreeling the cable, do not change the bend direction. The cable has to go on the new reel in the same direction it came off the reel. Low and equal tensile force during spooling!



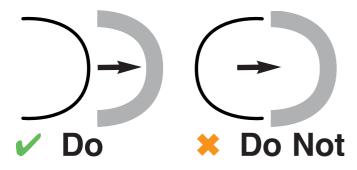
Ring put ups require careful uncoiling by rolling the ring upright over the floor



Do not twist the cable when unwinding. always unwind straight from spool.

3. Correct Installation of LÜTZE SUPERFLEX® Cables

Cable retains bend from reel. Do not flex against original bend or relax cable for 24 hrs by laying it flat.



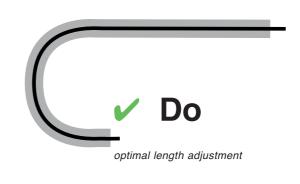
Use dividers horizontally and vertically to separate the track into separate cavities. Install just one cable per separated cavity. If absolutely necessary, two small or a small and a big cable can share a cavity.



Try to ensure balanced weight distribution. If you have more than one heavy cable, we recommend installing the heavy cables evenly to each side of the track.



Observe the minimum bending radius for optimum performance. Make sure that all cables are lengthadjusted and run in the neutral zone.







Customer questionnaire Connectivity

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Name: Lot sizes / Scale quantities: Annual requirement:	
Line Name / Description Jacket material: Jacket colour: Licences:	_ Length(s):
Side A Connector Name / Description: Supplier: Supplier item number: Mame / Description: Stepped dimensions / Wire lengths: Contacts / Connector: Supplier item number: Contacts / Connector: Supplier item number: Labelled D Not labelled Special features	Side B Connector Name / Description: Supplier item number: Machined open end Name / Description: Stepped dimensions / Wire lengths: Contacts / Connector: Supplier item number: Description: Image: stepped dimensions / Wire lengths: Contacts / Connector: Supplier item number: Image: stepped dimension of the step

Customer questionnaire Connectivity

Description side A		Description side B		
Pin assignment ☐ View connection side ☐ View machining side	Assignment PIN wire no./colour	PIN wire no./colour	Pin assignment ☐ View connection side ☐ View machining side	
Non-used wires			Non-used wires	
Cable outlet straight angled in PIN direction:			Cable outlet straight angled in PIN direction:	
Code settings Towards:			Code settings Towards:	
Screen machining outside inside Cut off Image:			Screen machining outside inside Cut off Image: Cut off On housing Image: Cut off On housing Image: Cut off On PIN Image: Cut off Execute with wire Image: Cut off Insulate outer screen Image: Connect inner screens Insulate inner screens Image: Cut off outer screen, put on jacket Cut off outer screen, put on jacket Image: Cut off outer screen, put on jacket Screen window Image: Cut off outer screen, put on jacket Vidth: Image: Cut off outer screen, put on jacket Label text Image: Cut off outer screen, put on jacket Midth: Image: Cut off outer screen, put on jacket Cut off outer screen, put on jacket Image: Cut off outer screen, put on jacket Screen window Image: Cut off outer screen, put on jacket Midth: Image: Cut off outer screen, put on jacket Midth: Image: Cut off outer screen, put on jacket Cut off outer screen, put on jacket Image: Cut off outer screen, put on jacket Cut off outer screen, put on jacket Image: Cut off outer screen, put on jacket Cut off outer screen, put on jacket Image: Cut off outer screen, put on jacket	
Wire printing available on request Label position After connector (mm):			Wire printing available on request Label position After connector (mm):	
Special Test parameters: Packaging:		ı I		

Construction questionnaire for LÜTZE Tamper-proof connector

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Please tell us your requirements by filling in this construction questionnaire: Page 1 Batch size: pieces	Page
Page 1 / View X Signal □ clockwise □ anti-clockwise □ clockwise □ anti-clockwise	Pin layouts (more on request) -pin 9-pin 12-pin 17-pin 6+3-pin 6+3-pin 9-pin
□ Connector – inner thread M23 x 1 □ Connector – speedtec quick release fastener	Line Assembly length L: mm LÜTZE cable part number: Description / Requirement / Purpose / Specification:
Page 2 / View Y Signal □ clockwise □ anti-clockwise □	Pin layouts (more on request) -pin 9-pin 12-pin 12-pin 6+3-pin 6+3-pin 9-pin
 □ Connector – speedtec quick release fastener □ Coupling – outer thread M23 x 1 □ Coupling – speedtec quick release fastener □ Socket contacts □ pin contacts Signal coding: □ 0° □ 80° □ 120° □ 20° □ Other connectors type/variant: Manufacturer: 	 Finishing of cable end (remove jacket, strip, machine screen, shrink tubing, copper tape etc.) Description:
Identification marking Wrap-round label printing text: Cable printing text: Other labelling – Description: No labelling	

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Cables

Cable assemblies

Cable fittings

LSC Wiring System

Module and Interface Technology

Ethernet Connectivity

Suppression Technology

Power Supplies

Railway Technology





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