

Connectivity Solutions

Cable Assemblies according to Bosch Rexroth Standard

LÜTZE
SYSTEMATIC TECHNOLOGY

Efficiency in Automation

Cable • Connectivity • Cabinet • Control



Cable Solutions



Connectivity Solutions



Cabinet Solutions



Control Solutions



Transportation Solutions



Welcome to LÜTZE

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.

LÜTZE®
SYSTEMATIC TECHNOLOGY



Motor and servo feed back: Best possible efficiency by means of maximum 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.



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!

Assemblies for the following standards

Allen-Bradley
Bosch Rexroth
Lenze
SEW
Siemens 6FX



Always connected pro perly
Cable assemblies by 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!





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 shut**

Other benefits:
- Tamper-proof: To prevent the connector casing from being opened or wrong connections within the connector
- Integrated anti-kink device
- 100 % compatible with BOSCH REXROTH®, SIEMENS®, Allen-Bradley®...
- Production of single unit available
- Available at short notice
- Protection class IP66/67

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.



Servomotor cables for C-tracks

According to Bosch Rexroth RKL standard





Application
- Motor cable for Bosch Rexroth SERVO drives
- Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions, aggressive coolants and lubricants

Properties
- Silicone free
- RoHS-compliant

Technical data

UL approval	cURus
Nominal voltage	1000 V 80 °C
Voltage	
U_0/U	0.6/1 kV
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 VDE 0482 T 265-2, DIN EN 50265/2, IEC 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.

Construction
- Jacket color orange RAL 2003

Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
Base cable				
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
193092.1000	RKL0018	10.0	(4G2,5+2×(2×1,0))	14.2
193093.1000	RKL0019	10.0	(4G1,0+2×(2×0,75))	12.5
193095.1000	RKL0046	10.0	(4G2,5+2×(2×1,0))	14.2
193097.1000	RKL4349	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193098.1000	RKL0050	10.0	(4G1,5+2×(2×0,75))	12.9
193100.1000	RKL0052	10.0	(4G2,5+2×(2×1,0))	14.2
193101.1000	RKL0053	10.0	(4G1,0+2×(2×0,75))	12.5
193105.1000	RKL0057	10.0	(4G2,5+2×(2×1,0))	14.2
193106.1000	RKL0058	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193125.1000	RKL4300	10.0	(4G1,5+2×(2×0,75))	12.9
193107.1000	RKL4301	10.0	(4G1,5+2×(2×0,75))	12.9
193240.1000	RKL4302	10.0	(4G1.0+2×(2×0.75))	12.5
193258.1000	RKL4303	10.0	(4G1.0+2×(2×0.75))	12.5
193241.1000	RKL4306	10.0	(4G1.5+2×(2×0.75))	12.9
193273.1000	RKL4307	10.0	(4G1,5+2×(2×0,75))	12.9
193242.1000	RKL4308	10.0	(4G2,5+2×(2×1,0))	14.2
193243.1000	RKL4309	10.0	(4G2,5+2×(2×1,0))	14.2
193244.1000	RKL4310	10.0	(4G2,5+2×(2×1,0))	14.2
193108.1000	RKL4313	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193257.1000	RKL4314	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193109.1000	RKL4315	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193246.1000	RKL4317	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193247.1000	RKL4318	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193276.1000	RKL4345	10.0	(4G2,5+2×(2×1,0))	14.2
193119.1000	RKL4346	10.0	(4G2,5+2×(2×1,0))	14.2
Extension				
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
193263.1000	RKL4311	10.0	(4G1.5+2×(2×0.75))	12.9
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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Servomotor cables for C-tracks

According to Bosch Rexroth RKL standard





Application
- Motor cable for Bosch Rexroth SERVO drives
- Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions, aggressive coolants and lubricants

Properties
- Silicone free
- RoHS-compliant

Technical data

UL approval	cURus
Nominal voltage	1000 V 80 °C
Voltage	
U_0/U	0.6/1 kV
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 VDE 0482 T 265-2, DIN EN 50265/2, IEC 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.

Construction
- Jacket color orange RAL 2003

Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
Base cable				
193094.1000	RKL0045	10.0	(4G1,5+2×(2×0,75))	12.9
193099.1000	RKL0051	10.0	(4G2,5+2×(2×1,0))	14.2
193102.1000	RKL4354	10.0	(4G1,5+2×(2×0,75))	12.9
193103.1000	RKL0055	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193104.1000	RKL0056	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193259.1000	RKL4320	10.0	(4G1.5+2×(2×0.75))	12.9
193252.1000	RKL4321	10.0	(4G2,5+2×(2×1,0))	14.2
193282.1000	RKL4322	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193248.1000	RKL4323	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193249.1000	RKL4324	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193272.1000	RKL4325	10.0	(4G1,5+2×(2×0,75))	12.9
193111.1000	RKL4326	10.0	(4G2,5+2×(2×1,0))	14.2
193112.1000	RKL4327	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193250.1000	RKL4328	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193251.1000	RKL4329	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193254.1000	RKL4331	10.0	(4G25+2×(2×1,5))	29.3
193113.1000	RKL4332	10.0	(4G35+2×(2×1,5))	32.5
193114.1000	RKL4333	10.0	(4G25+2×(2×1,5))	29.3
193115.1000	RKL4334	10.0	(4G35+2×(2×1,5))	32.5
193260.1000	RKL4343	10.0	(4G2,5+2×(2×1,0))	14.2
193118.1000	RKL4344	10.0	(4G16+2×(2×1,5))	26.8
193121.1000	RKL4349	10.0	(4G16+2×(2×1,5))	26.8
193122.1000	RKL4387	10.0	(4G35+2×(2×1,5))	32.5
193123.1000	RKL4778	10.0	(4G35+2×(2×1,5))	32.5
193124.1000	RKL4785	10.0	(4G25+2×(2×1,5))	29.3
Extension				
193116.1000	RKL4335	10.0	(4G1,5+2×(2×0,75))	12.9
193004.1000	RKL4336	10.0	(4G2,5+2×(2×1,0))	14.2
193255.1000	RKL4337	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193256.1000	RKL4338	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193270.1000	RKL4339	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193271.1000	RKL4340	10.0	(4G16+2×(2×1,5))	26.8
193264.1000	RKL4341	10.0	(4G25+2×(2×1.5))	29.3
193117.1000	RKL4342	10.0	(4G35+2×(2×1,5))	32.5

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Servomotor cables for C-tracks

According to Bosch Rexroth IKG standard



Application
- Motor cable for Bosch Rexroth SERVO drives
- Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions, aggressive coolants and lubricants

Properties
- Silicone free
- RoHS-compliant

Technical data

Nominal voltage	1000 V 80 °C
Voltage	
U_0/U	0.6/1 kV
Insulation resistance	min. 500 MΩ × km
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 T 265-2, DIN EN 50265/2, IEC 60332-1, UL 1581 section 1080 VW-1 CSA FT 1
Halogen free	nach DIN EN 50267-2-1
Product photo	The product photos are not to scale and do not represent detailed images of the respective products.

Construction
- Jacket color orange RAL 2003

Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
Base cable				
193028.1000	IKG4115	10.0	(4G1,5+2×(2×0,75))	12.9
193029.1000	IKG4116	10.0	(4G2,5+2×(2×1,0))	14.2
193054.1000	IKG4117	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193055.1000	IKG4118	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193037.1000	IKG4175	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193030.1000	IKG4136	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193062.1000	IKG4176	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193031.1000	IKG4140	10.0	(4G1,5+2×(2×0,75))	12.9
193060.1000	IKG4139	10.0	(4G2,5+2×(2×1,0))	14.2
193038.1000	IKG4177	10.0	(4G4+(2×1,0)+(2×1,5))	16.3
193039.1000	IKG4215	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193077.1000	IKG4169	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193032.1000	IKG4155	10.0	(4G6+(2×1,0)+(2×1,5))	18.4
193078.1000	IKG4168	10.0	(4G10+(2×1,0)+(2×1,5))	22.3
193061.1000	IKG4172	10.0	(4G16+2×(2×1,5))	26.8
193035.1000	IKG4173	10.0	(4G25+2×(2×1,5))	29.3
193036.1000	IKG4174	10.0	(4G35+2×(2×1,5))	32.5
193033.1000	IKG4620	10.0	(4G25+2×(2×1,5))	29.3
193079.1000	IKG4621	10.0	(4G35+2×(2×1,5))	32.5

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Signal cables for C-tracks

According to Bosch Rexroth IKS standard





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

Properties
- Silicone free
- RoHS-compliant

Technical 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, IEC 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.

Construction
- Jacket color orange RAL 2003

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

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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 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 conditions)
- 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

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

Part-No.	Number of conductors/cross-section	INK* Description	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
Construction with two control pairs					
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

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC
*Indramat article designations are registered trademarks

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 conditions)
- 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

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* Description	Outer ∅ ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Bosch-Rexroth system (and similar)					
110941	(2×1.0+4×2×0.25) 1.0: white, brown 0.25: brown/green, grey/pink, blue/violet, 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/violet, 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, white 0.14: grey/pink, yellow/violet, green/brown, red/black (0.14): greenblack, blueblack, yellowblack, 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
*Indramat article designations are registered trademarks

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:

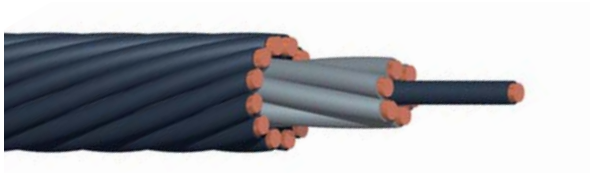
Standard Flexible Cables – LÜTZE SILFLEX®



long pitch

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

High Flexing Cables – LÜTZE SUPERFLEX®



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



Static

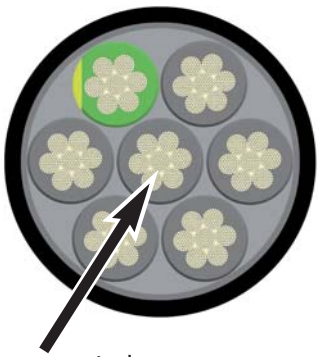


Periodical Free Flexing

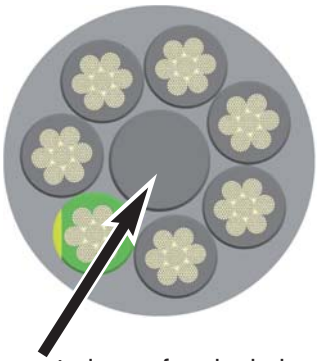


Bend & Route





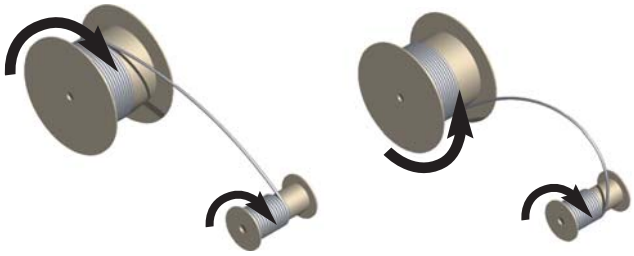
- no central core
- mostly PVC as insulation material
- foil shield or braid shield
- jacket material depends on application



- 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

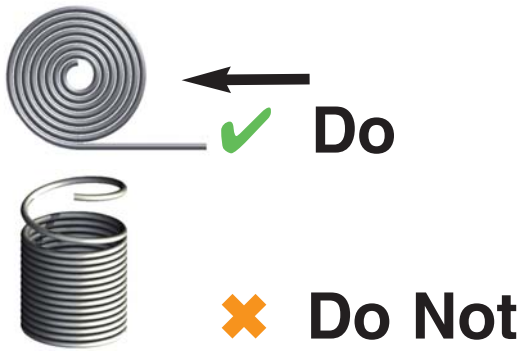
2. Correct Handling of LÜTZE SUPERFLEX® Cables

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!



✔ Do ✖ Do Not

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

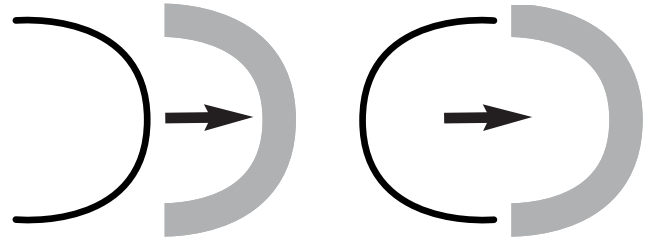


✔ Do ✖ Do Not

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.

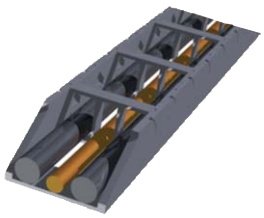


✔ Do ✖ Do Not

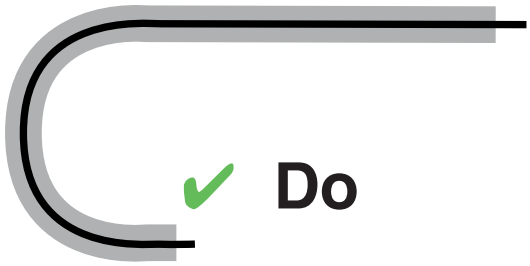
Use dividers horizontally and vertically to separate the track into separate cavities. Install just one cable per separated cavity. If absolutely necessary, two small or a small and a big cable can share a cavity.



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 length-adjusted and run in the neutral zone.



✔ Do

optimal length adjustment



✖ Do Not

length adjustment too short



✖ Do Not

length adjustment too long

Customer questionnaire Connectivity

Company: _____

Contact person: _____

Department: _____

Street: _____

ZIP / City: _____

Telephone: _____

Fax: _____

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Tel.: +44 1827 31333-0
Fax: +44 1827 31333-2
sales.gb@lutze.co.uk

Ready-made

Name: _____

Lot sizes / Scale quantities: _____

Delivery time / -deadline: _____

Annual requirement: _____

Line

Name / Description _____

Jacket material: _____

Operating conditions: _____

Jacket colour: _____

Length(s): _____

Licences: _____

Side A

☐ **Connector**

Name / Description: _____

Supplier: _____

Supplier item number: _____

☐ **Machined open end**

Name / Description: _____

Stepped dimensions / Wire lengths: _____

Contacts / Connector: _____

Supplier item number: _____

☐ **Cut off smoothly**

☐ **Labelled** ☐ **Not labelled**

Side B

☐ **Connector**

Name / Description: _____

Supplier: _____

Supplier item number: _____

☐ **Machined open end**

Name / Description: _____

Stepped dimensions / Wire lengths: _____

Contacts / Connector: _____

Supplier item number: _____

☐ **Cut off smoothly**

☐ **labelled** ☐ **Not labelled**

Special features

_____

_____

_____

_____

_____

_____

Customer questionnaire Connectivity

Description side A

____

Description side B

____

Side A

Pin assignment

☐ View connection side
☐ View machining side

Non-used wires

☐ insulate
☐ cut off

Cable outlet

☐ straight
☐ angled in PIN direction: ________

Code settings

Towards: ______________________

Screen machining

	outside	inside
Cut off	☐	☐
On housing	☐	☐
On PIN	☐	☐
Execute with wire	☐	☐

Insulate outer screen against inner screen ☐

Connect inner screens ☐

Insulate inner screens against each other ☐

Cut off outer screen, put on jacket ☐

Screen window ☐

Width: ______________________

Position: ______________________

Label text

____

____

Wire printing available on request

Label position

After connector (mm): ____________

Assignment

PIN	wire no./colour	PIN	wire no./colour

Side B

Pin assignment

☐ View connection side
☐ View machining side

Non-used wires

☐ insulate
☐ cut off

Cable outlet

☐ straight
☐ angled in PIN direction: ________

Code settings

Towards: ______________________

Screen machining

	outside	inside
Cut off	☐	☐
On housing	☐	☐
On PIN	☐	☐
Execute with wire	☐	☐

Insulate outer screen against inner screen ☐

Connect inner screens ☐

Insulate inner screens against each other ☐

Cut off outer screen, put on jacket ☐

Screen window ☐

Width: ______________________

Position: ______________________

Label text

____

____

Wire printing available on request

Label position

After connector (mm): ____________

Special Test parameters: ____

Packaging: ____

Construction questionnaire for LÜTZE Tamper-proof connector

Company: _____

Contact person: _____

Department: _____

Street: _____

ZIP / City: _____

Telephone: _____

Fax: _____

Germany
Friedrich Luetze GmbH
Tel.: +49 71 51 60 53-0
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info@luetze.de

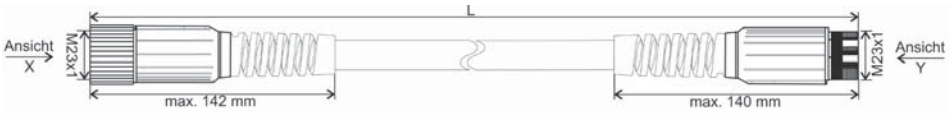
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Fax: +44 1827 31333-2
sales.gb@lutze.co.uk

Please tell us your requirements by filling in this construction questionnaire:

Batch size: _____ pieces

Page 1 **Page**

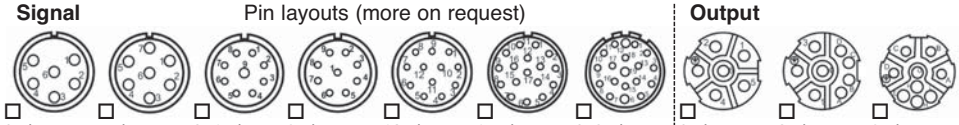


Page 1 / View X

☐ clockwise

☐ anti-clockwise

Signal Pin layouts (more on request) **Output**



☐ 6-pin ☐ 7-pin ☐ 8+1-pin ☐ 9-pin ☐ 12-pin ☐ 17-pin ☐ 6+3-pin ☐ 6-pin ☐ 8-pin ☐ 9-pin

Type page 1

☐ Connector – inner thread M23 x 1
☐ 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°

Line

Assembly length L: _____ mm
☐ LÜTZE cable part number: _____
☐ Description / Requirement / Purpose / Specification:

_____

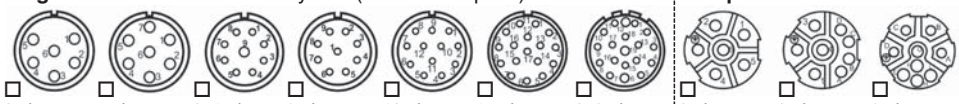
_____

Page 2 / View Y

☐ clockwise

☐ anti-clockwise

Signal Pin layouts (more on request) **Output**



☐ 6-pin ☐ 7-pin ☐ 8+1-pin ☐ 9-pin ☐ 12-pin ☐ 17-pin ☐ 6+3-pin ☐ 6-pin ☐ 8-pin ☐ 9-pin

Type page 2

☐ Connector – inner thread M23 x 1
☐ 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: _____
Manufacturer part number: _____

☐ Finishing of cable end (remove jacket, strip, machine screen, shrink tubing, copper tape etc.)
Description: _____

_____

_____

_____

☐ Cable end cut smoothly

Identification marking

☐ Wrap-round label printing text: _____
☐ Cable printing text: _____
☐ Other labelling – Description: _____
☐ No labelling

Note: Please indicate pin assignment!

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Innovations-Allianz Green Carbody Technologies

ISO 14001

RoHS



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Cable assemblies

Cable fittings

LSC Wiring System

Module and Interface Technology

Ethernet Connectivity

Suppression Technology

Power Supplies

Railway Technology

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