

Connectivity Solutions

Cable Assemblies according to Bosch Rexroth Standard



Efficiency in Automation

Cable • Connectivity • Cabinet • Control



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Welcome to LUTZE

Cable Solutions FORTZE BANKER BOTZE BANKER

Connectivity Solutions



Cabinet Solutions



Control Solutions



Transportation Solutions



LUTZE 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.

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

LUTZE 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.

LUTZE servo cable assemblies are fully suitable with BOSCH REXROTH® drive systems. As a special service LUTZE 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.

LUTZE systems comply with the highest industrial standards, LUTZE 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 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

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



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 freeRoHS-compliant

Technical data

UL approval cURus Nominal voltage 1000 V 80 °C Voltage 0.6/1 kV U_0/U Insulation resistance min. 500 M Ω × km Temperature range -25 °C to +80 °C moving fixed -40 °C to +80 °C Minimum bending radius moving D × 10 D × 6 fixed 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 Burning behavior Halogen free according to DIN EN 50267-2-1 The product photos are not to scale and do not represent detailed images of the respective products. Product photo

Construction

Part-No.	BOSCH REXROTH designation*	Length m	Number of conductors/ cross-section	Outer Ø ca. mm
Base cable	acsignation	***	01033-30011011	ca. IIIII
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 freeRoHS-compliant

Technical data

UL approval cURus Nominal voltage 1000 V 80 °C Voltage U_0/U 0.6/1 kV Insulation resistance min. 500 M Ω × km Temperature range moving -25 °C to +80 °C fixed -40 °C to +80 °C Minimum bending radius moving D × 10 D × 6 fixed 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 Burning behavior Halogen free according to DIN EN 50267-2-1 The product photos are not to scale and do not represent detailed images of the respective products. Product photo

Construction

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

^{*} UL approval and technical data shown apply to the cable used in the assemblies.



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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 coolings and the large of the conductor of t lants and lubricants

- PropertiesSilicone freeRoHS-compliant

Technical data

Nominal voltage 1000 V 80 °C

Voltage

0.6/1 kV U_0/U Insulation resistance min. 500 M Ω × km Minimum bending radius

D × 10 moving 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

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 freeRoHS-compliant

Technical data

UL approval cURus Nominal voltage 300 V 80 °C

Voltage

 U_0/U 0.6/1 kV

Insulation resistance min. 200 M Ω × km

Temperature range

moving -25 °C to +80 °C fixed -40 °C to +80 °C

Minimum bending radius

moving D × 12 D × 6 fixed

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

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

^{*} UL approval and technical data shown apply to the cable used in the assemblies.



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PVC servo cables · C-track compatible · shielded

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

Technical data

UL approval AWM 21223 Nominal voltage 1000 V 80 °C Voltage U₀/U 0.6/1 kV Test voltage 4000 V

Insulation resistance min. 500 M Ω × km

Temperature range

-25 °C to +80 °C moving -40 °C to +80 °C fixed

Minimum bending radius

moving 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-

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 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-secti-	INK* De-	Outer Ø	Weight	Cu-Index
	on	scription	ca. mm	kg/100 m	kg/100 m
Construct	ion 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

^{*}Indramat article designations are registered trademarks
* UL approval and technical data shown apply to the cable used in the assemblies



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

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

Technical data

UL approval AWM 20233 Nominal voltage 300 V 80 °C Test voltage 2000 V

Insulation resistance min. 200 M Ω × km

Temperature range

-25 °C to +80 °C moving fixed -40 °C to +80 °C

Minimum bending radius

D × 12 moving D × 6 fixed

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/	INK* De-		Weight	Cu-Index
	strand colors	scription	ca. mm	kg/100 m	kg/100 m
	ı-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/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

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

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.

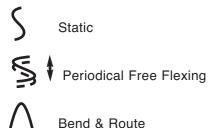
High Flexing Cables such as LÜTZE SUPERFLEX® cables are different from standard flexible cables:

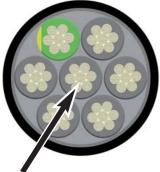
Standard Flexible Cables - LÜTZE SILFLEX®



long pitch

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





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

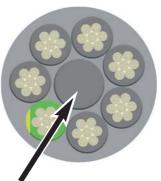
High Flexing Cables – LÜTZE SUPERFLEX®



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



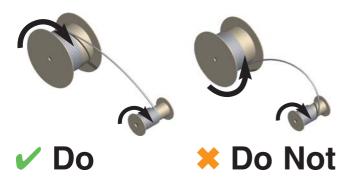


- central core for single layer construction
- special PVC or TPE as insulation material
- · tinned copper braid shield
- high abrasion resistant jacket material such as PUR

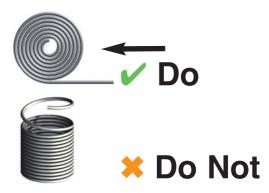
Handling and Installation LÜTZE SUPERFLEX® – Quick Overview

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!



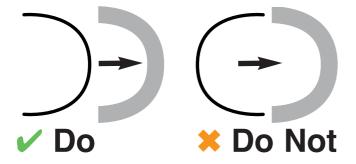
Ring put ups require careful uncoiling by rolling the ring upright over the floor



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.



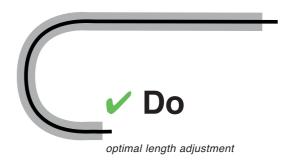
Use dividers horizontally and vertically to separate the track into separate cavities. Install just one cable per separated cavity. If absolutely necessary, two small or a small and a big cable can share a cavity.



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 length-adjusted and run in the neutral zone.













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LSC Wiring System

Module and Interface Technology

Ethernet Connectivity

Suppression Technology

Power Supplies

Railway Technology

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