



DATA SHEET	7072500-7072517
LK – LZS & LZF Servo Motor and Signal Cables for Lenze* Power Drive Systems	Valid up from : 01.01.2005

Application

LAPP Servo Cables, suitable for Lenze* Power Drive Systems, are Servo -Motor-, Resolver- and Encoder -cables. The highly flexible Versions (P/N 7072509 – 7072 517) are suitable in continuous flexing -(i. e. Power Chains) at ordinary duty, as well as for static usage. P/Ns 7072500 -7072508 for static use only. Intended Usage Profile: Interconnection between Frequency Converters and Servo Drives. Typical Fields of Applications: Industrial Machines, such as Machine Tools, Production Plants, Handling Systems, Body Press, Transfer Lines. USA: According NFPA 79 Ed. 2007 accepted only, when part of a listed assembly. These cables can be used in dry wet and damp locations, also into the open under respect of its recommended temperature ratings. All cables are increased resistant against oils and coolants, CFC- free, free of lacquer destructive substances. All highly flexible Versions (P/N 7072509 -7072517) are made of halogen free materials. Usage of these cables inside moving cable carriers respectively in motor drum guidance or under strain of more than 15N/mm² is not allowed.

Technical Datas:

Conductor	P/N 7072500-7072508); bare copper, fine wire stranding acc. IEC 60228 Cl. 5 P/N 7072 509.7072517 ; bare copper, extra fine wire standing acc. IEC 60028 Cl. 6
Insulation:	Motor- & Servo Motor Cables, Power leads 1,0 - 2,5mm ² : Polyolefine. 4 -16mm ² : TPE-E. Control pair: TPE-E Resolver and Encoder Cables: Polyethylene
Core ident code	Motor- & Servo Motor Cables: Power leads: Black Cores with white printing (U, VV, WWW, green/yellow) Control pair: white + black Resolver & Encoder cables: see further information of that data sheet.
Screen	Motor & Servo Motor Cables: Overall screen: Braid made of tinned copper wires, optical coverage: 80% (nom)
Make-up:	All elements, incl. fillers are twisted together in short lay lengths to form cables core.
Outer sheath:	P/N 7072500-7072508: PVC, oil resistant, flame retardant acc. IEC 60332.1-2, UL/CSA: FT 1, P/N 7072509-7072 517 PUR oil resistant, halogen free, flame retardant UL/CSA FT 1,
Rated Voltage:	Motor & Servo Cables: Power Leads: 600/1000 V (IEC) 600 V (UL) Control Pair: 250 V AC (IEC) 600 V (UL/CSA) Encoder/Resolver Cables: 300V (UL/CSA) 30V (IEC)
Test voltage	Motor & Servo Cables: 4000 V (Control pair: 2000 V) Encoder/Resolver Cables: C/C: 1500 V, C/S: 800V
Temperature range	P/N 7072 509 - 7072 517: Flexible usage -5°C up to +70°C, Signals up to +80° C (max. core temp) Static usage -30°C up to +70°C, Signals up to + 80°C (max. core temp) P/N 7072 500 – 7072508: Static use: -25°C up to +80°C (max. core temp)



DATA SHEET		7072500-7072517
LK – LZS & LZF Servo Motor and Signal Cables for Lenze* Power Drive Systems		Valid up from : 01.01.2005

Minimum bending radius P/N 7072 509 - 7072 517: flexing use:
10 x cables outer diameter, at temperatures < 70° C,
P/N 7072 516 - 7072 517: flexing use: 15 x cables outer diameter
P/N 7072 500 – 7072 507: Static use: 7,5 x cables outer diameter

Oil resistance Acc. IEC 60811-2-1 (former VDE 0472 part 803 methode B)

Approvals **Motor & Servo cables:** UL AWM, CSA AWM I/II A/B
Encoder & Resolver cables: UL AWM, CSA AWM I/II A/B

EEC Conformity All Low Voltage Motor- and Servo motor cables are conform to the European Low Voltage Directive 73/23

Additional data P/Ns 7072 500 - 7072 508 – Cables for static usage

Servo Cable Imprint Legend:

LAPP KABEL STUTTGART LK LZS DESINA 4G## + 2x## --- E63634  AWM 80°C 600V – 214533M CSA
AWM I/II A/B 75°C 600V FT1 ROHS CE

Additional data of P/N : 7072 507 / 3x(2x0,14)C + 1x(2x0,5) Resolver Cable

3x(2x0,14) mm² core ident code: black + yellow – black + green – black + red
(2x0,14) Pair-screening Braid, made of tinned copper wires. Coverage > 75%
1x(2x0,5) mm² core ident code: black + white
(2x0,5) Pair- screening: Braid, made of tinned copper wires. Coverage > 75%
Outer jacket PVC – oil resistant: Green (RAL 6018)
Outer diameter: ca. 9,3 mm

Cables imprint legend

LAPP KABEL STUTTGART LK LZS DESINA 3x(2x0.14)+1x(2x0.5) ---- E63634  AWM 80°C 300V – 214533M
CSA AWM I/II A/B 75°C 300V FT1 ROHS

Additional data of P/N: 7072 508 / 4x(2x0,14)C + 2x(1,0) Encoder Cable

4x(2x0,14) mm² core ident code: black + yellow – black + green – black + red – black + blue
(2x0,14) Pair- screening: Braid, made of tinned copper wires. Coverage > 75%
2x(1,0) mm² core ident code: black + white
(1,0) screening: Braid, made of tinned copper wires. Coverage > 75%
Outer jacket PVC – oil resistant: Green (RAL 6018)
Outer diameter ca. 11,0 mm



DATA SHEET	7072500-7072517
LK – LZS & LZF Servo Motor and Signal Cables for Lenze* Power Drive Systems	Valid up from : 01.01.2005

Encoder Cable imprint legend

LAPP KABEL STUTTGART LK LZS DESINA 4x(2x0.14)+2x(1) ---- E63634  AWM 80°C 300V – 214533M CSA
AWM I/II A/B 75°C 300V FT1 ROHS

Additional data P/Ns 7072 509 up to 7072 517 – Highly flexible cables for power chain usage.

Servo Cables imprint legend

LAPP KABEL STUTTGART LK LZF DESINA 4G## + 2x## --- E63634  AWM 80°C 600V – 214533M CSA
AWM I/II A/B 75°C 600V FT1 ROHS

Additional data for P/N: 7072516 / 3x(2x0,14)C + 1x(2x0,5) Resolver Cable

3x(2x0,14) mm ²	core ident code: green + yellow ; blue + red ; grey + pink
(2x0,14) Pair-Screening	Braid, made of tinned copper wires. Coverage > 75%
1x(2x0,5) mm ²	core ident code: white - brown
(2x0,5) Pair screening	Braid, made of tinned copper wires. Coverage > 75%
Outer jacket	Polyurethane – color: Green (RAL 6018)
Outer diameter	ca. 10,0 mm

Resolver Cables imprint legend

LAPP KABEL STUTTGART LK LZF DESINA 3x(2x0.14)+1x(2x0.5) ---- E63634  AWM 80°C 300V – 214533M
CSA AWM I/II A/B 75°C 300V FT1 ROHS

Additional datas of P/N.: 7072517 / 4x(2x0,14)C + 2x(1,0) Encoder Cable

4x(2x0,14) mm ²	core ident code: green + yellow ; blue + red ; grey + pink ; black + violet
(2x0,14) Pair- screening	Braid, made of tinned copper wires. Coverage > 75%
2x(1,0) mm ²	core ident code: white - brown
(1,0) Screening:	Braid, made of tinned copper wires. Coverage > 75%
Outer Jacket	Polyurethane – color: Green (RAL 6018)
Outer Diameter	ca. 11.5 mm

Encoder Cables Imprint Legend

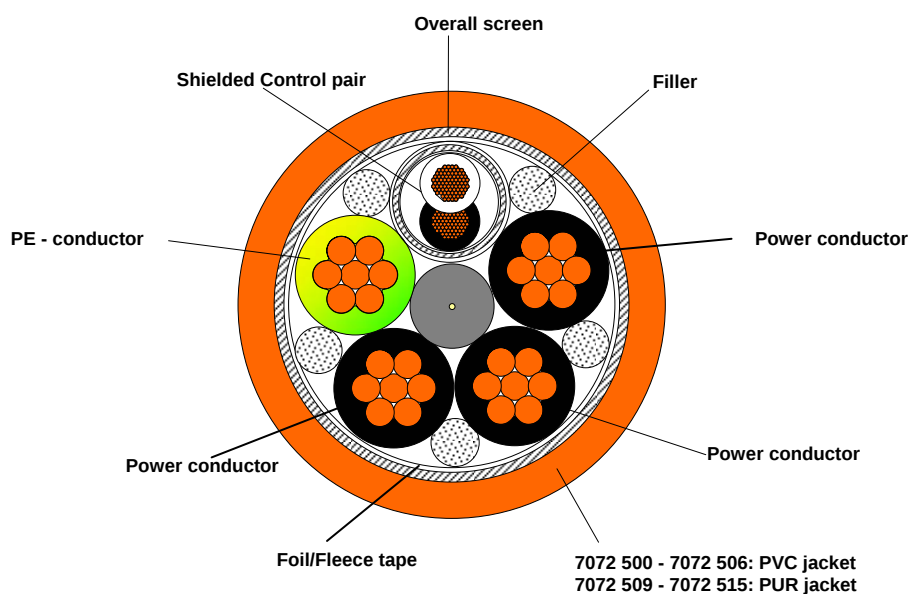
LAPP KABEL STUTTGART LK LZF DESINA 4x(2x0.14)+2x(1) ---- E63634  AWM 80°C 300V – 214533M CSA
AWM I/II A/B 75°C 300V FT1 ROHS

* LENZE is a registered/protected trademark owned by Lenze AG, Hans-Lenze- Straße 1, D 31855 Aerzen

Prepared by: PD-KL – Chr. Meyer rev: V. Huber 191207	Document: DB7072500EN_rev2	page 3 of 4
--	----------------------------	-------------

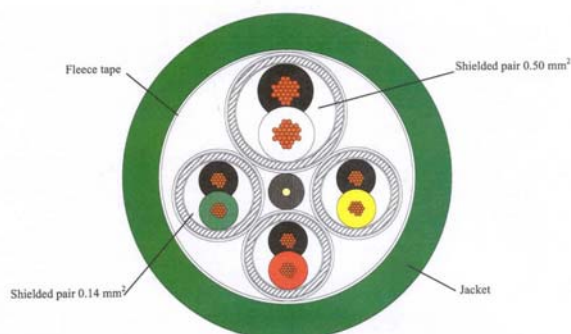
DATA SHEET	7072500-7072517
LK – LZS & LZF Servo Motor and Signal Cables for Lenze* Power Drive Systems	Valid up from : 01.01.2005

Draft to Servo cables for static & flexing usage:

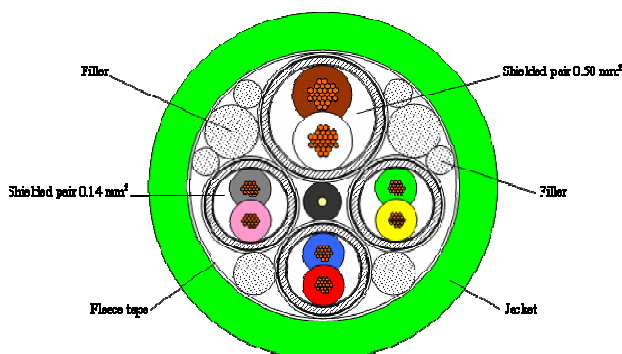


Resolver Cables:

For static use #7072 507

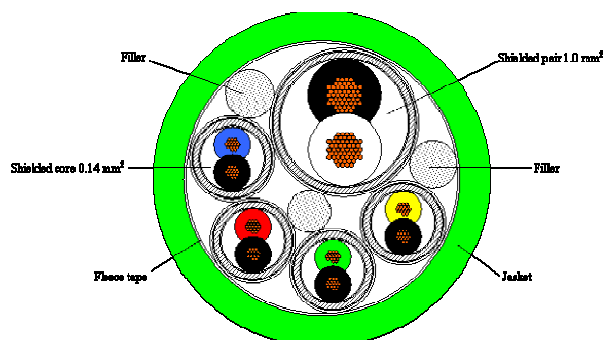


For highly flexible use #7072 516



Encoder Cables:

For static use #7072508



For highly flexible use #7072517

