



<b>DATA SHEET</b>	<b>70388724</b>
<b>LAPPKABEL SERVO Cables LK – KEB Encoder-/ Resolver Cable</b>	Valid up from : 01.12.2007

## Application

LAPP LK KEB Encoder-/Resolver Cables, suitable for KEB\* Power Drive Systems. The highly flexible Versions (P/N 70388724) are suitable in continuous flexing (i. e. Power Chains) at ordinary duty, as well as for static usage. 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. Outside of the USA, 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. Usage of these cables inside moving cable carriers respectively in motor drum guidance or under strain of more than 15N/mm<sup>2</sup> is not allowed.

**Technical Datas:**            **70388724 Resolver Cable 3x2(x0,14)+2x(1x0,50)**

**Data part:** 3x(2x0,14)

**Conductors 0,14mm<sup>2</sup>**            tinned copper conductor, 18 x 0,10mmØ.

**Insulation:**                    TPE-E, Themoplastic Polyester Elastomer

**Cond. Ident Code:**            Green+yellow – gray+pink – blue+red

**Pair screening:**                Tinned copper spiral wrap, strands 0,10mmØ

**Inner sheath (pair wise):**    PVC, black

**Supply part:**                    **2x(1x0,50)**

**Conductors 0,5mm<sup>2</sup>:**            Stranded tinned copper 16x0,20mmØ

**Insulation:**                    PVC

**Cond. ident code:**            White , brown

**Cond. Screening:**                Tinned copper spiral wrap, strands 0,10mm Ø

**Inner sheath:**                    PVC, black

**Make-up:**                        Conductors and Pairs twisted together in short lay lengths to form cables core.

**Screen**                            Overall screen: Braid made of tinned copper wires, coverage: ≥ 85%

**Outer sheath:**                 PUR oil resistant, flame retardant acc. CSA: FT 1, green (RAL 6018)

**Outer Diameter:**                Nom: 8,3mm

**Rated Voltage:**                300V (UL/CSA)  
350Vpp (IEC)

**Test voltage**                    1500 V

**Temperature range**            Flexible usage:    0°C up to + 80° C (max. core temp)

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Static usage: -40°C up to + 80°C (max. core temp)

**Minimum bending radius** Flexing use: 10 x cables outer diameter,  
Static use: 5 x cables outer diameter.

**Oil resistance** Acc. IEC 60811-2-1

**Approvals** UL AWM, CSA AWM I/II A/B

**Servo Cable Imprint Legend:**

LAPP KABEL STUTTGART SERVO LK KEB DESINA 3x(2x0,14)+2x(1x0,50) --- E63634  AWM 80°C 300V –  
214533M CSA AWM I/II A/B 75°C 600V FT1 ROHS Art. Nr. 70388724

**Electrical Characteristics:**

**0,14mm<sup>2</sup> Pairs:** Capacitance Cond/Cond: nom. 130 pF/m  
Capacitance Cond/Shield: nom. 205 pF/m  
Nominal Impedance: 60 Ohm at 1 MHz

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