

# **DATA SHEET**

## LAPPKABEL SERVO Cables LK – BRX

**Encoder- & Resolver Cables** 

Valid up from : 01.12.2007

70388727-70388728

## **Application**

LAPP LK BRX Encoder and Resolver Cables, suitable for B&R\* Power Drive Systems. The highly flexible Versions (P/N 70388727 – 70388728) 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. 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** Tinned copper, extra fine wire standing acc. IEC 60228 Cl. 6

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

**Cond. ident code:** See further information of that data sheet.

**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, halogen free, flame retardant acc. IEC 60332.1-2, UL/CSA: FT 1,

green (RAL 6018)

Rated Voltage: 300V (UL/CSA)

30V (IEC)

Test voltage Cond./Cond: 1500 V DC; Cond. /Screen: 1000V DC

Temperature range P/N 70388727 - 70388728:

Flexible usage: -40°C up to +80° C (max. core temp) Static usage: -50°C up to +80°C (max. core temp)

**Minimum bending radius** Flexing use: 7,5 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

Additional data P/N 70388727 3x2xAWG24

3x2xAWG24 Cond. Ident code: DIN 47100: white+brown - green+yellow - grey+pink

Overall screen Tinned copper braid, coverage ≥ 80%

Stranded drain wire under braid, 64 x 0,1mmØ

Outer Sheath PUR, oil resistant. Green (RAL 6018)

Prepared by:	_	DD-0000-0-51	4 40
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# **DATA SHEET**

### 70388727-70388728

# LAPPKABEL SERVO Cables LK – BRX

**Encoder- & Resolver Cables** 

Valid up from : 01.12.2007

Outer Diameter: nom: 6,5mm

Servo Cable Imprint Legend:

LAPP KABEL STUTGART SERVO LK BRX DESINA 3x2x24AWG --- E63634 N AWM 80°C 300V - 214533M CSA AWM I/II A/B 75°C 600V FT1 ROHS Art, Nr. 70388727

**Electrical Characteristics:** 

24AWG Pairs: Capacitance Cond/Cond: nom. 80 pF/m

Capacitance Cond/Shield: nom. 140 pF/m

Nominal Impedance: 80 Ohm at 1 MHz

Additional data of P/N: 70388728 5x2x0,14+2x0,50

**0,14mm² Pairs** Cond. Ident code: white+violet – brown+green – yellow+gray – pink+blue – red+black

**0,5mm² Pair** Cond. Ident code: white/red + white/green

**Overall- screening**: Braid, made of tinned copper wires. Coverage: ≥ 85%

Outer jacket PUR – oil resistant: Green (RAL 6018)

Outer diameter: nom. 7,8 mm

Cables imprint legend

LAPP KABEL STU<sup>+</sup>GART SERVO LK BRX DESINA 5x2x0,14+2x0,50 --- E63634 **№** AWM 80°C 300V − 214533M CSA AWM I/II A/B 75°C 300V FT1 ROHS Art. Nr. 70388728

#### **Electrical Characteristics:**

**0,25mm² Pairs:** Capacitance Cond/Cond: nom. 70 pF/m

Capacitance Cond/Shield: nom. 120 pF/m

Nominal Impedance: 100 Ohm at 1 MHz

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<sup>\*</sup> B&R is a registered trademark of Bernecker und Rainer Industrie Elektronik GmbH B&R Straße 1; A 5142 Eggelsberg. Österreich