



DATA SHEET	70388727-70388728
LAPPKABEL SERVO Cables LK – BRX Encoder- & Resolver Cables	Valid up from : 01.12.2007

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)


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Outer Diameter: nom: 6,5mm

Servo Cable Imprint Legend:

LAPP KABEL STU^UTGART SERVO LK BRX DESINA 3x2x24AWG --- E63634  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^UTGART 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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