

0034220	DATA SHEET	
valid from: 2021-09-01	JE-LiYCY...BD EB	

Application

JE-LiYCY...BD EB is a connecting cable for industrial electronics. It can be used in measurement and control engineering and also as pulse and data transmission cable.

With the blue outer sheath the cable is designed for the installation of intrinsically safe circuits in hazardous (explosive) areas.

The cable meets the requirements of EN 60079-14 (VDE 0165-1) where a special marking for cables of hazard type "i" (intrinsically safe) is specified.

The cable is suited for limited flexing use and fixed installation in dry and wet rooms on and under plaster.

Design

Design	acc. to DIN VDE 0815, Table 5 Type JE-LiYCY...BD
Certification	Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)
Outer sheath	Colour of the sheath: sky blue (similar RAL 5015)

Electrical properties at 20 °C

Loop resistance	max. 78.4 Ω/km
Insulation resistance	min. 100 MΩ/km
Mutual capacitance	max. 100 nF/km (at 800 Hz)
Inductance	ca. 0.65 mH/km
Capacitive coupling	max. 200 pF/100 m (at 800 Hz)
Maximum operating voltage	225 V (not for power applications) Must not be connected to the mains supply voltage.
Test voltage	C/C: 1000 V C/S: 2000 V

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 6 x outer diameter
Temperature range	occasional flexing: -5 °C up to +50 °C max. conductor temperature fixed installation: -30 °C up to +70 °C max. conductor temperature
Flammability	flame retardant acc. to EN 60332-1-2 resp. IEC 60332-1-2

Tests	acc. to DIN VDE 0815, Type JE-LiYCY...BD Electrical properties acc. to table 11 Tests at the cable acc. to table 21
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General requirements	These cables are conform to EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). These cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
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Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).
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Note	Trade product, no Lapp product
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