

0034220	DATA SHEET	
valid from: 01.01.2019	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	Design in accordance with DIN VDE 0815, Table 5, Type JE-LiYCY...BD Electrical properties in accordance with DIN VDE 0815, Table 11, Type JE-LiYCY...BD Tests at the cable in accordance with DIN VDE 0815, Tabelle 21
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)

Diameter of the outer sheath

Article number	Dimension	Outer sheath $\varnothing$
0034220	2 x 2 x 0.5 mm ²	ca. 7.5 mm
0034221	4 x 2 x 0.5 mm ²	ca. 10.0 mm
0034222	8 x 2 x 0.5 mm ²	ca. 13.0 mm
0034223	12 x 2 x 0.5 mm ²	ca. 15.5 mm
0034224	16 x 2 x 0.5 mm ²	ca. 17.0 mm
0034225	20 x 2 x 0.5 mm ²	ca. 18.5 mm
0034226	24 x 2 x 0.5 mm ²	ca. 20.5 mm
0034227	32 x 2 x 0.5 mm ²	ca. 22.5 mm
0034228	40 x 2 x 0.5 mm ²	ca. 24.0 mm

Electrical properties at 20°C

Loop resistance	max. 78.4 Ω /km
Insulation resistance	min. 100 M Ω /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)
Peak operating voltage	225 V (not for power applications)
Test voltage	C/C: 1000 V C/S: 2000 V

Mechanical and thermal properties

Minimum bending radius	Occasional flexing: 15 x cable $\varnothing$ Fixed installation: 6 x cable $\varnothing$
Temperature range	Occasional flexing: - 5 °C up to +50 °C Fixed installation: - 30 °C up to +70 °C
Flammability	flame retardant acc. to IEC 60332-1-2
General requirements	These cable are conform to the 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).

Creator: PESA / PDC	Document: DB0034220EN	Page 1 of 1
Released: ALTE / PDC	Version: 07	