


<b>0034 120</b>	<b>DATA SHEET</b>	
<b>valid from: 01.01.2019</b>	<b>JE-Y(ST)Y...BD EB</b>	

## Application

JE-Y(ST)Y...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 intended for use in dry and damp interiors and for fixed installation.

## Design

Design	Design in accordance with DIN VDE 0815, Table 4, Type JE-Y(ST)Y...BD Electrical properties in accordance with DIN VDE 0815, Table 10, Type JE-Y(ST)Y...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 <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> )
Outer sheath	Colour of the sheath: sky blue (similar RAL 5015)

## Diameter of the outer sheath

Article number	Dimension	Outer sheath $\varnothing$
0034120	2 x 2 x 0.8 mm	ca. 6.0 mm
0034121	4 x 2 x 0.8 mm	ca. 8.5 mm
0034122	8 x 2 x 0.8 mm	ca. 11.0 mm
0034123	12 x 2 x 0.8 mm	ca. 13.0 mm
0034125	20 x 2 x 0.8 mm	ca. 16.0 mm
0034126	40 x 2 x 0.8 mm	ca. 20.0 mm

## Electrical properties at 20°C

Loop resistance	max. 73.2 $\Omega$ /km
Insulation resistance	min. 100 M $\Omega$ /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	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](http://www.lappkabel.com/cpr)) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).

Creator: PESA / PDC	Document: DB0034120EN	Page 1 of 1
Released: ALTE / PDC	Version: 07	