


0034171	<b>DATA SHEET</b>	
valid from: 2021-09-01	<b>J-2Y(ST)Y...ST III BD</b>	

## Application

J-2Y(ST)Y...ST III BD is a indoor telephone cable for data transmission rates of up to 16 MBit/s. It is for example used for connecting EDP system units or for circuits for airfield lighting, ISDN private branch exchanges, operating data acquisition, operating data entry, access control and time recording systems, industrial electronics, all designed for maximum security and speed.

The cable can be used in dry and wet interiors for fixed installation on and under plaster.

## Design

Design	based on DIN VDE 0815
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> )
Conductor	solid bare copper conductor
Insulation	polyethylene
Core identification code	acc. to DIN 0815
Stranding	cores twisted to star quads, star quads are stranded in bundles, bundles are stranded in layers wrapping with foil on the outer layer
Screen	Static screening made of aluminium-laminated plastic foil with copper drain wire
Outer sheath	PVC colour: pebble grey (RAL 7032)

## Electrical properties at 20 °C

Loop resistance	0.6 mm: max. 130 Ω/km
Specific volume resistivity	> 5 GΩ/km
Mutual capacitance	max. 52 nF/km (at 800 Hz)
Capacitive coupling	K1: 98 % <400 pF/300 m K9-12: 98 % < 100 pF/300 m (at 800 Hz)
Characteristic impedance	approx. 100 Ω
Near-end cross-talk	2-pair: 45 dB > 2-pair: 20 dB (4-16 MHz)
Maximum operating voltage	300 V (not for power applications) Must not be connected to the mains supply voltage.
Test voltage	C/C: 500 V C/S: 2000 V

## Mechanical and thermal properties

Minimum bending radius	fixed installation: 10 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** based on DIN VDE 0815

**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](http://www.lappkabel.com/cpr)) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).

**Environmental information** These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

**Note** Trade product, no Lapp product

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