

0034 171	DATA SHEET	
valid from: 01.01.2019	J-2Y(ST)Y...ST III BD	

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	Design in accordance with DIN VDE 0815
Conductor	solid bare copper conductor
Insulation	polyethylene
Core identification code	according 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)

Diameter of the outer sheath

Article number	Dimension	Outer sheath $\varnothing$
0034171	2 x 2 x 0.6 mm	ca. 5.5 mm
0034173	4 x 2 x 0.6 mm	ca. 7.5 mm
0034176	10 x 2 x 0.6 mm	ca. 9.5 mm
0034178	20 x 2 x 0.6 mm	ca. 13.5 mm

Electrical properties at 20°C

Loop resistance	0.6 mm: max. 130 Ω /km
Specific volume resistivity	> 5 G Ω /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)
Peak operating voltage	300 V (not for power applications)
Test voltage	C/C: 500 V C/S: 2000 V

Mechanical and thermal properties

Minimum bending radius	Fixed installation: 10 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).

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