

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

Conductor	solid bare copper conductor
Insulation	polyethylene
Core identification code	according to DIN 08 15
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)
Design based on standard	VDE 0815

Electrical properties at 20°C

Conductor loop resistance	0.6 mm	130.0 Ω/km max.
Specific insulation resistance	> 5 G Ω x km	
Mutual capacitance	max. 52 nF/km (at 800 Hz)	
Short-range crosstalk attenuation (NEXT)	2-pair: 45 dB > 2-pair: 20 dB (4-16 MHz)	
Characteristic impedance	100 Ohm ± 5%	
Peak working 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 Ø
Temperature range	Fixed installation: -30°C up to +70°C Occasionally flexing: -5°C up to +50°C
Flammability	Flame retardant acc. to IEC 60332-1-2
EU directive	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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