

# JE-LiYCY Bd si

Cables for industrial electronics, suitable for fast connections, EMC\*



## Cable structure

- Bare copper core 0,5 mm<sup>2</sup> (7 × 0,3 mm)
- Core insulation of special PVC compound according to DIN VDE 0207 part 4
- Color coded cores according to DIN VDE 0815
- Cores twisted to pairs with optimal lay-length, 4 pairs stranded to bunch, bunches stranded in layers
- Plastic foil wrapping
- Tinned copper braided screening, approx. 85% coverage
- Outer sheath of special PVC according to DIN VDE 0207 part 5
- Outer sheath color grey or blue for hazardous areas with the possibility of explosion or fire -i- (= intrinsically safe)
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

## Technical data

- Special core insulation according to DIN VDE 0815
- **Conductor resistance** (loop) max. 78,4 Ω/km
- **Temperature range** flexing from -5 °C to +50 °C  
fixed from -30 °C to +70 °C
- **Nominal voltage** 225 V
- **Test voltage a.c.** core/core 500 V  
core/screen 2000 V
- **Insulation resistance** min. 100 MΩ × km
- **Mutual capacitance** max. 100 pF/m  
(this value can be exceeded by 20 % in cables up to 4 pairs)
- **Capacitance unbalance** max. 200 pF/100 m
- **Inductance** approx. 0,65 mH/km
- **Radiation resistance** up to 80 × 10<sup>6</sup> cJ/kg (up to 80 Mrad)
- **Minimum bending radius** fixed from 7,5 × cable diameter
- **Ideal for fast connection**

## Application

These connecting cables are used for transmission of data and impulses in measuring and regulation technics, in electrical control circuits and for data transmission in computers. These cables are suitable for installation in moist areas as well as for outdoor use. Version with blue outer sheath for installation in hazardous areas with possible threats of explosion and fire -i- (= intrinsically safe). These cables offer all advantages of fast and economic installation. This solderless connecting technique is based on a compression termination that uses a spring-clip for the connection of the cable to a square rigid post without pre-stripping. For this technique it is necessary to have an exact 7-core stranded PVC conductor and a semi-rigid PVC.

### Note:

\*EMC = Electromagnetic compatibility – recommended type  
To optimise EMC features we recommend large round contacts of the copper braiding on both ends.  
CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.  
Conforms to RoHS.  
Halogen-free version also available on request.

Part No. grey sheath	Part No. blue sheath	No. of pairs × core cross-section [mm <sup>2</sup> ]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0348510	0348529	2×2×0,5	7,5	51	94
0348511	0348530	4×2×0,5	10,0	87	154
0348512	0348531	8×2×0,5	13,0	144	259
0348513	0348532	12×2×0,5	15,0	196	340
0348514	0348533	16×2×0,5	17,0	249	431

Part No. grey sheath	Part No. blue sheath	No. of pairs × core cross-section [mm <sup>2</sup> ]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0348515	0348534	20×2×0,5	19,0	299	494
0348516	0348535	24×2×0,5	20,5	348	604
0348517	0348536	32×2×0,5	23,0	444	737
0348518	0348537	40×2×0,5	25,0	537	844