

# JE-Y(St)Y Bd Si

## Installation cables for industrial electronics



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### Cable structure

- Solid bare copper conductor, diameter 0,8 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
- PVC coated aluminium foil screen
- Copper drain wire
- 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/DIN 57815
- **Conductor resistance** (loop) max. 73,2 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** approx. 7,5× cable diameter

### Application

This type of cable is especially suitable for signal transmission and measuring in the area of electronics for data transmission in computers. The cable is also suitable for fixed installation in dry and wet environments as well as for outdoor use (with UV protection). Version with blue outer sheath for intrinsic safe installation.

### Note:

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.  
Conforms to RoHS.  
Halogen-free version also available, see section "Halogen-free cables" chapter 5.

Part No. grey sheath	Part No. blue sheath	No. of pairs × Ø cores diameter [mm]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0348500	0348519	1×2×0,8	4,8	20	43
0348501	0348520	2×2×0,8	6,0	25	60
0348502	0348521	4×2×0,8	8,5	45	95
0348503	0348522	8×2×0,8	11,0	85	157
0348504	0348523	12×2×0,8	13,0	126	224

Part No. grey sheath	Part No. blue sheath	No. of pairs × Ø cores diameter [mm]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0348505	0348524	16×2×0,8	14,5	166	290
0348506	0348525	20×2×0,8	16,0	206	350
0348507	0348526	32×2×0,8	20,0	327	545
0348508	0348527	40×2×0,8	22,0	407	660
0348509	0348528	80×2×0,8	30,0	809	1160