

J-2Y(St)H St III Bd 16 Mbits/s (Kat.3) ISDN/EDV (Z = 100 Ohm), halogen-free



Technical data

- Special core insulation of PE
- Adapted to DIN VDE 0815 and 0816
- **Conductor loop-resistance**
max. 130 Ohm/km
- **Temperature range**
flexing -5°C to +70°C
fixed installation -30°C to +70°C
- **Operating peak voltage** 225 V
(not for purposes of high current and power installation)
- **Test voltage** 800 V
- **Insulation resistance**
min. 5 GOhm x km
- **Mutual capacitance** 48 nF/km
- **Characteristic impedance (Z)**
at 4-16 MHz: 100 Ohm \pm 15%
- **Capacitance unbalance**
K₁ max. 400 pF/300 m
K₉-K₁₂ max. 100 pF/300 m
- **Rel. velocity ratio** approx. 0,66
- **Attenuation** at
1 MHz: 28 dB/km
4 MHz: 47 dB/km
5 MHz: 51 dB/km
10 MHz: 65 dB/km
15 MHz: 76 dB/km
16 MHz: 78 dB/km
20 MHz: 89 dB/km
- **Cross-talk attenuation**
from 4 MHz up to 16 MHz
for 2 pairs: min. 40 dB
4 pairs and above: min. 25 dB
- **Minimum bending radius**
stationary approx. 10x cable Ø

Cable construction

- Bare, solid copper conductor 0,6 mm Ø
- Core insulation of PE (2Y)
- Colour coding to DIN VDE 0815
- Conductors twisted to quads
- 5 quads twisted to units
- Static screen of plastics coated alu foil with drain wire 0,6 mm Ø
- Outer jacket flame retardant, halogen-free polymer-compound
- Outer jacket

Properties

- Outer jacket
Flame test to DIN VDE 0482 part 266-2/ HD 405.3, BS 4066 part 3/ EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
- These cables are not allowed for purposes of high current and power installation
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Application

Used as data transmission and connection cable suitable for fixed installation in and under plaster, for data transmission applications, for periphery instrument data processing computers.

Suitable for transmission of analog- and digital signals up to 16 Mbit/s. High cross-talk attenuation values.

Suitable as connecting cable for periphery equipment, data processing systems, monitors, Printers and cash register systems.

The static screen (St) screen assures a disturbance-free data and signal transmission for measuring and control systems.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

| Part No. | No.pairs x diameter mm | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km |
|----------|------------------------|----------------|---------------------|--------------------|
| 34166 | 2 x 2 x 0,6 | 5,8 | 13,0 | 44,0 |
| 34167 | 4 x 2 x 0,6 | 9,2 | 24,0 | 80,0 |
| 34168 | 6 x 2 x 0,6 | 9,3 | 35,0 | 86,0 |
| 34169 | 8 x 2 x 0,6 | 9,5 | 46,0 | 105,0 |
| 34170 | 10 x 2 x 0,6 | 9,8 | 58,0 | 112,0 |
| 34171 | 20 x 2 x 0,6 | 12,7 | 116,0 | 218,0 |

| Part No. | No.pairs x diameter mm | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km |
|----------|------------------------|----------------|---------------------|--------------------|
| 34172 | 30 x 2 x 0,6 | 15,0 | 172,0 | 302,0 |
| 34173 | 40 x 2 x 0,6 | 16,8 | 229,0 | 376,0 |
| 34174 | 50 x 2 x 0,6 | 18,5 | 266,0 | 480,0 |
| 34175 | 60 x 2 x 0,6 | 20,2 | 342,0 | 560,0 |
| 34176 | 80 x 2 x 0,6 | 23,0 | 455,0 | 748,0 |
| 34177 | 100 x 2 x 0,6 | 25,2 | 588,0 | 940,0 |

Dimensions and specifications may be changed without prior notice.