



Technical data

- Special PVC core insulation to DIN VDE 0815/DIN 57815
- **Conductor resistance** at 20°C 39,2 Ohm/km
- **Temperature range** flexing -5°C to +50°C fixed installation -30°C to +70°C
- **Nominal voltage** 225 V
- **Test voltage** core/core 500 V core/screen 2000 V
- **Insulation resistance** min. 100 MOhm x km
- **Mutual capacitance** max. 100 pF/m (the value can exceed of 20% by cables up to 4 pairs)
- **Capacitance unbalance** max. 200 pF/100 m
- **Inductance** approx. 0,70 mH/km
- **Attenuation** at 800 Hz approx. 1,1 dB/km
- **Radiation resistance** up to 80x10⁶ cJ/kg (up to 80 Mrad)
- **Minimum bending radius** stationary approx. 5xcable Ø

Cable construction

- Bare copper strands 7x0,30 mm
- Special PVC core insulation Y13, to DIN VDE 0207 part 4
- Simatic colour coded to DIN VDE 0815
- Cores stranded in pairs with optimal lay-length
- 4 pairs laid up to a unit
- Units stranded in layer
- Polyester foil wrap
- Bare or tinned copper wire braided, 0,2 mm Ø screening, approx. 85% coverage
- Special PVC outer sheath YM1, to DIN VDE 0207 part 5
- Colour grey (RAL 7032) or blue (RAL 5015)

Properties

- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Features Suitable for cut-clamp technics
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Also available in a halogen-free version. (see also content "Halogen-free Security Cables and Wires")

Application

This cable type is especially suited for transmission of signals and measurements in the fields of electronics and for data transmission in computers. Suitable for flexing and fixed installation in dry and moist environments in and under plaster as well as in the open for fixed installation on outer walls of buildings. Also available with a blue outer jacket for intrinsic safe installations.

These cables are not allowed for purposes of high current and power installation.

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

Part No.	No.pairs x cross-sec. mm ²	Outer sheat colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No.pairs x cross-sec. mm ²	Outer sheat colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
48510	2 x 2 x 0,5	grey	7,5	51,0	94,0	20	48529	2 x 2 x 0,5	blue	7,5	51,0	94,0	20
48511	4 x 2 x 0,5	grey	10,0	87,0	154,0	20	48530	4 x 2 x 0,5	blue	10,0	87,0	154,0	20
48512	8 x 2 x 0,5	grey	13,0	144,0	259,0	20	48531	8 x 2 x 0,5	blue	13,0	144,0	259,0	20
48513	12 x 2 x 0,5	grey	15,0	196,0	340,0	20	48532	12 x 2 x 0,5	blue	15,0	196,0	340,0	20
48514	16 x 2 x 0,5	grey	17,0	249,0	431,0	20	48533	16 x 2 x 0,5	blue	17,0	249,0	431,0	20
48515	20 x 2 x 0,5	grey	19,0	299,0	494,0	20	48534	20 x 2 x 0,5	blue	19,0	299,0	494,0	20
48516	24 x 2 x 0,5	grey	20,5	348,0	604,0	20	48535	24 x 2 x 0,5	blue	20,5	348,0	604,0	20
48517	32 x 2 x 0,5	grey	23,0	444,0	737,0	20	48536	32 x 2 x 0,5	blue	23,0	444,0	737,0	20
48518	40 x 2 x 0,5	grey	25,0	537,0	844,0	20	48537	40 x 2 x 0,5	blue	25,0	537,0	844,0	20

Dimensions and specifications may be changed without prior notice.