



B

## 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 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)
- **Minimum bending radius** stationary approx. 5xcable ø

## Cable structure

- 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)
- with blue outer jacket for hazardous areas to hazard type -i- for intrinsically safe installation according to DIN EN 60079-14 and IEC 60079-14 section 12.2.2 (VDE 0165 part 1)

## Properties

- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ 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 mm<sup>2</sup>.
- Also available in a halogen-free version. (see also content "Halogen-free Security Cables and Wires")
- Control cable with blue outer jacket, see catalog part A.

## 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.

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

CE – The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.pairs x cross-sec. mm <sup>2</sup>	Jacket colour	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
48510	2 x 2 x 0,5	grey	6,9	51,0	94,0	20
48511	4 x 2 x 0,5	grey	9,2	87,0	154,0	20
48512	8 x 2 x 0,5	grey	13,8	144,0	259,0	20
48513	12 x 2 x 0,5	grey	14,6	196,0	340,0	20
48514	16 x 2 x 0,5	grey	15,9	249,0	431,0	20
48515	20 x 2 x 0,5	grey	17,4	299,0	494,0	20
48516	24 x 2 x 0,5	grey	19,4	348,0	604,0	20
48517	32 x 2 x 0,5	grey	24,9	444,0	737,0	20
48518	40 x 2 x 0,5	grey	25,2	537,0	844,0	20

Part no.	No.pairs x cross-sec. mm <sup>2</sup>	Jacket colour	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
48529	2 x 2 x 0,5	blue	6,9	51,0	94,0	20
48530	4 x 2 x 0,5	blue	9,2	87,0	154,0	20
48531	8 x 2 x 0,5	blue	13,8	144,0	259,0	20
48532	12 x 2 x 0,5	blue	14,6	196,0	340,0	20
48533	16 x 2 x 0,5	blue	15,9	249,0	431,0	20
48534	20 x 2 x 0,5	blue	17,4	299,0	494,0	20
48535	24 x 2 x 0,5	blue	19,4	348,0	604,0	20
48536	32 x 2 x 0,5	blue	24,9	444,0	737,0	20
48537	40 x 2 x 0,5	blue	25,2	537,0	844,0	20

Dimensions and specifications may be changed without prior notice. (RB01)