



Technical data

- Special core insulation to DIN VDE 0815/DIN 57815
- **Conductor resistance** at 20°C 36,6 Ohm/km
- **Temperature range** flexing -5°C to +50°C fixed installation -30°C to +70°C
- **Nominal voltage** 225 V (not for purposes of high current and power installation)
- **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. 6x cable Ø
- **Caloric load values** see table Technical Informations

Cable structure

- Solid plain copper conductor wire 0,8 mm Ø
- 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 stranded to a unit
- Units stranded in layer
- Polyester foil wrap
- PVC coated aluminium foil screen
- Copper drain-wire, bare
- 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)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- 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 fixed installation in and under plaster, in dry and moist environments as well as in the open. 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 core Ø mm	Outer sheat colour	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	Part No.	No. pairs x core Ø mm	Outer sheat colour	Outer Ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
48500	1 x 2 x 0,8	grey	4,8	20,0	43,0	48519	1 x 2 x 0,8	blue	4,8	20,0	43,0
48501	2 x 2 x 0,8	grey	6,0	25,0	60,0	48520	2 x 2 x 0,8	blue	6,0	25,0	60,0
48502	4 x 2 x 0,8	grey	8,5	45,0	95,0	48521	4 x 2 x 0,8	blue	8,5	45,0	95,0
48503	8 x 2 x 0,8	grey	11,0	85,0	157,0	48522	8 x 2 x 0,8	blue	11,0	85,0	157,0
48504	12 x 2 x 0,8	grey	13,0	126,0	224,0	48523	12 x 2 x 0,8	blue	13,0	126,0	224,0
48505	16 x 2 x 0,8	grey	14,5	166,0	290,0	48524	16 x 2 x 0,8	blue	14,5	166,0	290,0
48506	20 x 2 x 0,8	grey	16,0	206,0	350,0	48525	20 x 2 x 0,8	blue	16,0	206,0	350,0
48507	32 x 2 x 0,8	grey	20,0	327,0	545,0	48526	32 x 2 x 0,8	blue	20,0	327,0	545,0
48508	40 x 2 x 0,8	grey	22,0	407,0	660,0	48527	40 x 2 x 0,8	blue	22,0	407,0	660,0
48509	80 x 2 x 0,8	grey	30,0	809,0	1160,0	48528	80 x 2 x 0,8	blue	30,0	809,0	1160,0

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