



Technical data

- Special industrial electronic cable to DIN VDE 0815
- **Conductor resistance** at 20°C 36,6 Ohm/km
- **Temperature range** flexing -5°C to +50°C fixed installation -30°C to +70°C
- **Operating peak 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 80x10⁵ cJ/kg (up to 80 Mrad)
- **Minimum bending radius** fixed installation 6x cable Ø
- **Caloric load values** see table Technical Informations

Cable structure

- Solid bare copper conductor wire 0,8 mm Ø
- Core insulation of PVC Y13, to DIN VDE 0207 part 4
- Core identification (pair) to DIN VDE 0815 (Simatic colour code)
- Cores stranded in pairs with optimal lay-length
- 4 pairs stranded to a unit
- Unit stranded with optimal lay-length
- Foil wrapping
- Shielding of plastic laminated foil
- Copper drain-wire
- Outer sheath of PVC compound type YM1 to DIN VDE 0207 part 5
- Sheath colour grey (RAL 7032) or blue (RAL 5015)

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- ### Tests
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- Also available in a halogen-free version. (see also content "Halogen-free Security Cables and Wires".)
- Control cable with blue outer sheath, see Flexible Control Cables
- with blue outer sheath for hazardous areas to hazard type -i- for intrinsically safe installation acc. to DIN EN 60079-14 section 12.2.2 (VDE 0165 part 1)
- 2-paired cables: cores stranded to a star quad

Application

These cable types are suitable for transmission of signals and measurements in the symmetric circuits of the control and regulation technology, and for the transmission of data and process information in computer systems. Used in dry and damp premises, and in or under plaster in the open air for fixed installation. Installation cables are not allowed for purposes of high current and power or burial installation.

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

Part no.	No.pairs x cross-sec. mm	Sheath colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km		Part no.	No.pairs x cross-sec. mm	Sheath colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	
48500	1 x 2 x 0,8	GY	5,0	20,0	43,0	-	48519	1 x 2 x 0,8	BU	5,0	20,0	43,0	-
48501	2 x 2 x 0,8	GY	6,6	25,0	60,0	-	48520	2 x 2 x 0,8	BU	6,6	25,0	60,0	-
48502	4 x 2 x 0,8	GY	8,3	45,0	95,0	-	48521	4 x 2 x 0,8	BU	8,3	45,0	95,0	-
48503	8 x 2 x 0,8	GY	10,5	85,0	157,0	-	48522	8 x 2 x 0,8	BU	10,5	85,0	157,0	-
48504	12 x 2 x 0,8	GY	11,8	126,0	224,0	-	48523	12 x 2 x 0,8	BU	11,8	126,0	224,0	-
48505	16 x 2 x 0,8	GY	13,5	166,0	290,0	-	48524	16 x 2 x 0,8	BU	13,5	166,0	290,0	-
48506	20 x 2 x 0,8	GY	14,7	206,0	350,0	-	48525	20 x 2 x 0,8	BU	14,7	206,0	350,0	-
48507	32 x 2 x 0,8	GY	19,0	327,0	545,0	-	48526	32 x 2 x 0,8	BU	19,0	327,0	545,0	-
48508	40 x 2 x 0,8	GY	20,7	407,0	660,0	-	48527	40 x 2 x 0,8	BU	20,7	407,0	660,0	-
48509	80 x 2 x 0,8	GY	29,5	809,0	1160,0	-	48528	80 x 2 x 0,8	BU	29,5	809,0	1160,0	-

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