



Technical data

- Control cable, special PVC with blue outer jacket for hazardous areas to hazard type -i- (=intrinsically safe)
- For intrinsically safe installation according to DIN EN 60079-14 and IEC 60079-14 section 12.2.2. (VDE 0165 part 1)
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Mutual capacitance**
core/core approx. 140 nF/km
core/screen approx. 187 nF/km
- **Inductance** approx. 0,68 mH/km
- **Coupling resistance**
max. 250 Ωm/km
- **Minimum bending radius**
flexing 10x cable ø
fixed installation 5x cable ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z 7225
- Black cores with white continuous figure imprint to DIN VDE 0293 without earth core
- Cores stranded in layers with optimal lay-length
- Core wrapping of plastic foil
- Braiding, tinned copper wire screening, approx. 85% coverage
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1 and HD 21.1
- Colour blue (RAL 5015)
- with meter marking, change-over in 2011

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations.
- 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

- For underground laying use NYY with blue outer sheath.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Instrumentation cable RE-2Y(St)Yv with blue outer jacket see catalog part B.

Application

For hazardous areas the cables with special marking (blue) (hazard type-i-) used as flexible control and measuring cables to meet the requirements for the installation of electrical apparatus. These installations are not earthed and require a separate power circuit. Those cables are not suitable for underground laying.

The copper braided screening ensures the transmission of data signals and free from interference.

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14028	2 x 0,75	6,1	40,0	59,0	18
14029	3 x 0,75	6,3	52,0	66,0	18
14030	4 x 0,75	6,8	60,0	77,0	18
14031	5 x 0,75	7,4	71,0	93,0	18
14088	7 x 0,75	8,2	91,0	130,0	18
14032	8 x 0,75	9,6	110,0	145,0	18
14033	10 x 0,75	10,3	137,0	180,0	18
14034	12 x 0,75	10,5	142,0	202,0	18
14035	18 x 0,75	12,7	212,0	292,0	18
14036	20 x 0,75	13,3	238,0	362,0	18
14037	25 x 0,75	15,0	281,0	415,0	18
14038	30 x 0,75	15,8	320,0	486,0	18
14039	34 x 0,75	17,2	345,0	525,0	18
14040	41 x 0,75	18,6	400,0	680,0	18
14041	2 x 1	6,4	50,0	65,0	17
14042	3 x 1	6,7	60,0	81,0	17
14043	4 x 1	7,2	71,0	98,0	17
14044	5 x 1	8,0	88,0	127,0	17
14045	7 x 1	8,7	111,0	158,0	17
14046	12 x 1	11,4	184,0	260,0	17
14047	18 x 1	13,5	260,0	380,0	17
14048	25 x 1	16,2	349,0	534,0	17
14049	34 x 1	18,5	486,0	741,0	17

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14050	2 x 1,5	7,0	65,0	88,0	16
14051	3 x 1,5	7,5	80,0	100,0	16
14052	4 x 1,5	8,1	97,0	126,0	16
14053	5 x 1,5	9,0	119,0	160,0	16
14054	7 x 1,5	9,8	147,0	208,0	16
14055	12 x 1,5	12,8	267,0	338,0	16
14056	18 x 1,5	15,4	374,0	479,0	16
14057	25 x 1,5	18,4	526,0	705,0	16
14058	30 x 1,5	19,1	555,0	830,0	16
14059	34 x 1,5	20,8	629,0	900,0	16

Dimensions and specifications may be changed without prior notice. (RA04)