



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 -15°C¹⁾ to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/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. 120 nF/km
- **Inductance** approx. 0,68 mH/km
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)
- ¹⁾ cold bending test, impact resistance test at low temperatures, elongation test at low temperatures. Tested according VDE 0473 Teil 811-1-4, EN 60811-1-4

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
- 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 2009

Properties

- Extensively oil resistant
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.

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 app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
14001	2 x 0,75	5,2	14,4	46,0	18
14002	3 x 0,75	5,5	21,6	54,0	18
14003	4 x 0,75	6,2	29,0	66,0	18
14004	5 x 0,75	6,8	36,0	80,0	18
14075	7 x 0,75	8,1	52,0	110,0	18
14005	8 x 0,75	8,9	58,0	130,0	18
14076	12 x 0,75	9,9	88,0	179,0	18
14006	18 x 0,75	11,9	130,0	257,0	18
14007	25 x 0,75	14,5	180,0	365,0	18
14008	30 x 0,75	15,8	215,0	448,0	18
14009	34 x 0,75	16,4	245,0	510,0	18
14010	41 x 0,75	17,6	298,0	607,0	18
14011	2 x 1	5,5	19,0	60,0	17
14012	3 x 1	6,0	29,0	72,0	17
14013	4 x 1	6,6	38,0	86,0	17
14014	5 x 1	7,2	48,0	104,0	17
14015	7 x 1	8,6	67,0	141,0	17
14016	12 x 1	10,7	115,0	230,0	17
14017	18 x 1	12,7	173,0	343,0	17
14018	25 x 1	15,6	240,0	485,0	17
14019	2 x 1,5	6,3	29,0	70,0	16
14020	3 x 1,5	6,7	43,0	90,0	16
14021	4 x 1,5	7,3	58,0	109,0	16
14022	5 x 1,5	8,2	72,0	131,0	16
14023	7 x 1,5	9,8	101,0	184,0	16
14024	12 x 1,5	12,1	173,0	309,0	16
14025	18 x 1,5	14,5	259,0	440,0	16
14026	25 x 1,5	17,8	360,0	620,0	16
14027	30 x 1,5	20,0	440,0	842,0	16
14100	3 x 2,5	8,3	72,0	148,0	14
14101	4 x 2,5	9,1	96,0	178,0	14
14102	5 x 2,5	10,2	120,0	221,0	14

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