



## Technical data

- Control cable, special PVC with blue outer sheath for hazardous areas to hazard type -i- (= intrinsically safe)
- For intrinsically safe installation acc. to DIN EN 60079-14 and IEC 60079-14 section 12.2.2 (VDE 0165 part 1)
- **Temperature range**  
flexing -15°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 MOhm 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  $80 \times 10^6$  cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type Z 7225
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- without GN-YE conductor
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour blue (RAL 5015)
- with meter marking

## Properties

- Extensively oil resistant, oil-/chemical resistance see table Technical Informations
- 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

- For underground laying use NYY with blue outer sheath.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- Instrumentation cable RE-2Y(St)Yv with blue outer sheath see Data and Computer Cables

## 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/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14001	2 x 0,75	5,3	14,4	46,0	19
14002	3 x 0,75	5,6	21,6	54,0	19
14003	4 x 0,75	6,3	29,0	66,0	19
14004	5 x 0,75	6,9	36,0	80,0	19
14075	7 x 0,75	7,5	52,0	110,0	19
14005	8 x 0,75	8,3	58,0	130,0	19
14076	12 x 0,75	9,8	88,0	179,0	19
14006	18 x 0,75	12,2	130,0	257,0	19
14007	25 x 0,75	14,3	180,0	365,0	19
14008	30 x 0,75	15,3	215,0	448,0	19
14009	34 x 0,75	16,5	245,0	510,0	19
14010	41 x 0,75	18,1	298,0	607,0	19
14011	2 x 1	5,6	19,0	60,0	18
14012	3 x 1	5,9	29,0	72,0	18
14013	4 x 1	6,6	38,0	86,0	18
14014	5 x 1	7,3	48,0	104,0	18
14015	7 x 1	8,1	67,0	141,0	18
14016	12 x 1	10,4	115,0	230,0	18
14017	18 x 1	12,9	173,0	343,0	18
14018	25 x 1	15,4	240,0	485,0	18

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
14019	2 x 1,5	6,4	29,0	70,0	16
14020	3 x 1,5	6,8	43,0	90,0	16
14021	4 x 1,5	7,4	58,0	109,0	16
14022	5 x 1,5	8,3	72,0	131,0	16
14023	7 x 1,5	9,2	101,0	184,0	16
14024	12 x 1,5	11,8	173,0	309,0	16
14025	18 x 1,5	14,6	259,0	440,0	16
14026	25 x 1,5	17,4	360,0	620,0	16
14027	30 x 1,5	18,6	440,0	842,0	16
14100	3 x 2,5	8,3	72,0	148,0	14
14101	4 x 2,5	9,2	96,0	178,0	14
14102	5 x 2,5	10,1	120,0	221,0	14

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