










PVC sheath and coloured cores



## CONTROL FLEX - E10 CY

### Technical data

 <b>Core identification code</b> Based on: VDE 0293-308	 <b>Conductor</b> fine wire base to VDE 0295 K1.5/IEC 60228 C1.5	 <b>Test voltage</b> 4000V
 <b>Based on</b> IEC 60227-5 HD 21.5 S3; VDE 0281 Part 5 HD 21.13 S1; VDE 0281 Part 13	 <b>Protective conductor</b> G=with protective conductor GN/YE X=without protective conductor	 <b>Minimum bending radius</b> occasional flexing: 20 x cable diameter fixed installation: 6 x cable diameter
 <b>Specific insulation resistance</b> > 20 GOhm x cm	 <b>Range of temperature</b> occasional flexing: -5 °C to +70 °C fixed installation: -15 °C to +80 °C	 <b>Rated voltage</b> up to 1.5 sqmm: U <sub>o</sub> /U: 300/500 V starting at 1.5 sqmm: U <sub>o</sub> /U: 450/750 fixed, protected insulation: U <sub>o</sub> /U: 600/1000V

### Application range

- \* Plant engineering and construction Industrial machinery
- \* Conveying and transport systems Servo drives
- \* In EMI critical environment (Electromagnetic interference)
- \* Data and Control Cables in Machinery, Computer System

### Approvals (Norm references)

- \* Using RoHS compliances compounds
- \* CE

### Benefits

- \* Space-saving installation due to small cable diameters
- \* High electrical performance due to 4 Kv test voltage

### Product Make-UP

- \* Bare copper wires bunched conductor
- \* PVC insulation
- \* PVC inner sheath, grey
- \* Screen made of tinned copper wire braid
- \* PVC outer sheath, transparent

### Product features

- \* Flame-retardant acc. to IEC 60332-1-2
- \* Good chemical resistance
- \* High coverage degree of the screen low transfer impedance (max. 250 ohm/km at 30 Mhz)
- \* The screen density assures disturbance free transmission of all signals and impulses
- \* The applied clear transparent PVC outer sheath accentuates the Optical view of the tinned copper braid.

Part Number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm approx.	Copper index Kg./km	Weight kg./km approx
<b>CONTROL FLEX - E10 CY; U<sub>o</sub> / U: 300 / 500 V</b>				
700042	2 X 0.5	7.4	41	87
701043	3 G 0.5	7.7	46	97
701044	4 G 0.5	8.1	55	110
701045	5 G 0.5	8.8	66	131
701047	7 G 0.5	9.3	80	149
700052	2 X 0.75	8.0	46	104
701053	3 G 0.75	8.3	57	117
701054	4 G 0.75	8.8	64	135
701055	5 G 0.75	9.6	77	161
701057	7 G 0.75	10.2	102	185
700062	2 X 1.0	8.5	56	120
701063	3 G 1.0	8.9	65	137
701064	4 G 1.0	9.5	78	159
701065	5 G 1.0	10.3	89	191
701067	7 G 1.0	11.0	113	221
<b>CONTROL FLEX - E10 CY; U<sub>o</sub> / U: 450 / 750 V</b>				
700072	2 X 1.5	10.1	65	166
701073	3 G 1.5	10.5	79	189
701074	4 G 1.5	11.3	97	222
701075	5 G 1.5	12.1	116	264
701077	7 G 1.5	13.0	149	309
700082	2 X 2.5	11.7	87	227
701083	3 G 2.5	12.3	146	262
701084	4 G 2.5	13.2	167	311
701085	5 G 2.5	14.4	200	381
701087	7 G 2.5	15.5	288	448
700094	4 G 4.0	14.9	237	411
701095	5 G 4.0	16.1	328	496
701104	4 G 6.0	16.4	318	524
701105	5 G 6.0	18.1	441	652
701113	3 G 10	18.9	414	680
701114	4 G 10	20.5	558	826
701115	5 G 10	22.2	714	1012
701123	3 G 16	21.6	607	939
701124	4 G 16	23.4	804	1154

\* Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

\* Other sizes can be manufactured on demand

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