

## CONTROL FLEX - E10

### Technical data

**Core identification code**  
Based on: VDE 0293-308

**Based on**  
IEC 60227-5  
HD 21.5 S3; VDE 0281 Part 5  
HD 21.13 S1; VDE 0281 Part 13

**Specific insulation resistance**  
> 20 GOhm x cm

**Conductor**  
fine wire base to  
VDE 0295 K1.5/IEC 60228 C1.5

**Minimum bending radius**  
occasional flexing: 15 x cable diameter  
fixed installation: 4 x cable diameter

**Rated voltage**  
up to 1,5 sqmm: Uo/U: 300/500 V  
fixed, protected insulation: Uo/U:  
600/1000V

**Test voltage**  
4000V

**Protective conductor**  
G=with protective conductor GN/YE  
X=without protective conductor

**Range of temperature**  
occasional flexing: -5 ° C to +70 ° C  
fixed installation: -15 ° C to + 80 ° C

### Application range

- \* Plant engineering and construction Industrial machinery Air-conditioning installations Power station
- \* Dry or damp interiors under medium Mechanical load conditions
- \* Fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

### Product Make-UP

- \* Bare copper wire bunched conductor
- \* PVC insulation
- \* Core Colour
- \* Cores twisted in layers
- \* PVC outer sheath, grey RAL(7001)

### 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 Increased flexibility due short-twisted Conductor layers

### Product features

- \* Flame-retardant acc. to IEC 60332-1-2
- \* Good chemical resistance

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; Uo / U: 300 / 500 V</b>				
800042	2 X 0.5	5.4	9.6	43
801043	3 G 0.5	5.7	14.4	51
800043	3 X 0.5	5.7	15.0	51
801044	4 G 0.5	6.4	19.2	65
800044	4 X 0.5	6.4	19.2	65
801045	5 G 0.5	6.9	24.0	79
800045	5 X 0.5	6.9	24.0	79
801046	6 G 0.5	7.5	29.0	93
801047	7 G 0.5	7.5	33.6	94
801048	8 G 0.5	8.4	38.4	115
801410	10 G 0.5	9.4	48.0	145
801412	12 G 0.5	9.7	58.0	160
801414	14 G 0.5	10.4	67.0	184
801416	16 G 0.5	10.9	76.0	206
801421	21 G 0.5	12.5	99.0	270
801424	24 G 0.5	13.8	114	323
801440	40 G 0.5	16.3	192	475
800052	2 X 0.75	6.2	14.4	58
801053	3 G 0.75	6.6	21.6	69
800053	3 X 0.75	6.6	21.6	69
801054	4 G 0.75	7.2	28.8	85
800054	4 X 0.75	7.2	28.8	85
801055	5 G 0.75	8.0	36.0	109
800055	5 X 0.75	8.0	36.0	109
801056	6 G 0.75	8.7	43.3	131
801057	7 G 0.75	8.7	50.4	130
801058	8 G 0.75	9.9	56.0	165
801059	9 G 0.75	10.8	63.0	191
801510	10 G 0.75	11.2	72.0	209
801512	12 G 0.75	11.6	86.4	230
801515	15 G 0.75	12.8	108	285
801518	18 G 0.75	13.5	129.6	324
801521	21 G 0.75	14.7	151.0	380
801525	25 G 0.75	16.2	180.0	461
800062	2 X 1.0	6.5	19.2	67
801063	3 G 1.0	6.9	29.0	81
800063	3 X 1.0	6.9	28.0	81
801064	4 G 1.0	7.8	38.4	103
800064	4 X 1.0	7.8	38.4	103
801065	5 G 1.0	8.5	48.0	128
800065	5 X 1.0	8.5	48.0	128
801066	6 G 1.0	9.2	58.0	154
801067	7 G 1.0	9.2	67.0	154

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; Uo / U: 300 / 500 V</b>				
801068	8 G 1.0	10.5	77.0	194
801610	10 G 1.0	11.9	96.0	246
801612	12 G 1.0	12.3	115.0	272
801616	16 G 1.0	13.6	154.0	343
801618	18 G 1.0	14.4	173.0	390
801620	20 G 1.0	15.6	192.0	443
801625	25 G 1.0	17.2	240.0	546
800072	2 X 1.5	7.5	29	90
801073	3 G 1.5	8.1	43.0	113
800073	3 X 1.5	8.1	43.0	113
801074	4 G 1.5	9.1	58.0	143
800074	4 X 1.5	9.1	58.0	143
801075	5 G 1.5	9.9	72.0	178
800075	5 X 1.5	9.9	72.0	178
801077	7 G 1.5	10.8	101.0	216
801078	8 G 1.5	12.1	115.0	264
801712	12 G 1.5	14.6	173.0	387
801714	14 G 1.5	15.3	202.0	436
801718	18 G 1.5	17.1	259.0	547
801725	25 G 1.5	20.0	360.0	753
<b>CONTROL FLEX - E10; Uo / U: 450 / 750 V</b>				
800082	2 X 2.5	8.9	47.8	134
800083	3 X 2.5	9.7	71.9	168
800084	4 X 2.5	11.0	95.8	220
800085	5 X 2.5	12.0	119.6	273
800087	7 X 2.5	13.3	166.8	338
800088	8 X 2.5	15.5	189.8	436
800092	2 X 4	10.2	76.5	187
800093	3 X 4	11.2	114.8	253
800094	4 X 4	12.3	154.0	296
800095	5 X 4	13.9	192.0	384
800097	7 X 4	15.5	268.0	486
800102	2 X 6	11.4	108.0	242
800103	3 X 6	12.8	172.8	321
800104	4 X 6	14.0	230.0	401
800105	5 X 6	15.7	287.0	518
800107	7 X 6	17.7	402.0	665
800112	2 X 10	14.5	185.6	399
800113	3 X 10	15.9	286.5	517
800114	4 X 10	17.7	384.0	658
800115	5 X 10	20.0	480.0	857
800123	3 X 16	19.2	458.9	785
800124	4 X 16	21.4	614.0	1020

\* 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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