



We Make  
Modern Life  
Possible



# FLEXICS® CHAIN C UL/c(UL)

UL recognized PVC/PVC drag chain cable, screened

AUTOMATION AND MOTOR SUPPLY CABLES

Extremely flexible PVC/PVC control cable for transmission of instrumentation and control signals for machine building and plant construction purposes, especially for continuous moving machine parts, e.g. within C-tracks. Cables are designed for indoor applications when exposed to medium mechanical stress. Resistant against a wide range of oils, greases, coolants and lubricants. Especially when excellent EMC behavior is requested.



## TECHNICAL DATA



### Standard

Based on VDE 0285



### Certificate

UL AWM 20886  
CSA C22.2 No. 210-11, AWM



### Test Voltage

4000 V / 50 Hz



### Rated Voltage

300/500 V (U<sub>o</sub>/U)  
1000 V (UL/CSA)



### Bending cycles

3 million



### Bending radius (min.)

Fixed installation: 7.5 x  $\phi$  of cable  
Flexible use: 10 x  $\phi$  of cable



### Fire properties

EN 60332-1-2: self-extinguishing and flame retardant  
UL: vertical flame test VW-1, cable flame test  
CSA: FT1



### Core identification

Black (continuously numbered), from 3 cores with green/yellow ground conductor



### Temperature range

Fixed installation: -30°C up to 80°C  
Flexible use: -5°C up to 70°C

## DESIGN



- 1 Bare copper conductors, super fine wires class 6 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of special compound based on polyvinyl chloride (PVC)
- 3 Cores stranded in layers with short lay-lengths
- 4 Non-woven wrapping over each stranding layer
- 5 Inner sheath of special compound based on polyvinyl chloride (PVC)
- 6 Tinned copper wire braiding
- 7 Non-woven tape separation over braiding (optional)
- 8 Outer sheath of special compound based on polyvinyl chloride (PVC), colour: grey (RAL 7001)

Number of cores x nominal cross-section (mm <sup>2</sup> )	Outer diameter appr. (mm)	Cu-value (kg/km)	Total weight appr. (kg/km)
2 x 0.5	7.5	33	78
3 G 0.5	7.9	39	89
4 G 0.5	8.5	46	102
5 G 0.5	9.2	54	127
7 G 0.5	10.9	70	177
12 G 0.5	12.6	100	234
18 G 0.5	15.5	153	381
25 G 0.5	17.7	202	472
2 x 0.75	7.8	39	94
3 G 0.75	8.2	48	105
4 G 0.75	8.9	59	123
5 G 0.75	10.0	69	155
7 G 0.75	11.6	90	206
12 G 0.75	13.8	129	304
18 G 0.75	16.3	205	425
25 G 0.75	18.6	271	548
2 x 1	8.2	46	106
3 G 1	8.6	57	123
4 G 1	9.4	70	141
5 G 1	10.6	81	178
7 G 1	12.3	110	233
12 G 1	14.6	182	362
18 G 1	17.6	254	501
25 G 1	20.2	265	667
2 x 1.5	9.0	58	127
3 G 1.5	9.7	75	152
4 G 1.5	10.6	91	187
5 G 1.5	11.4	112	218
7 G 1.5	13.8	145	320
12 G 1.5	16.3	247	460
18 G 1.5	19.5	348	677
25 G 1.5	23.6	498	926
3 G 2.5	11.0	119	208
4 G 2.5	11.8	161	244
5 G 2.5	13.0	194	306
7 G 2.5	15.8	262	428
12 G 2.5	20.0	410	682
18 G 2.5	24.0	562	994
25 G 2.5	28.3	778	1422
4 G 4	14.0	238	365
5 G 4	15.3	280	430
7 G 4	19.8	352	670
4 G 6	16.1	318	514
7 G 6	23.0	528	862

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